



Hydrogeological Assessment Report

Proposed 8-Storey Multi-Unit Apartment Building

424 Churchill Avenue North
Ottawa, ON

Prepared for:
Churchill Properties Inc.
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Scarborough, ON
M1V 5M8

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1 INTRODUCTION

Englobe Corporation (Englobe) was retained by Churchill Properties Inc. (the “Client”) to prepare a Hydrogeological Assessment Report (“Report”) for the property located at 424 Churchill Avenue North in Ottawa, Ontario (the “Site”), in support of a proposed mixed-use development project.

Englobe, formerly DST, had previously conducted geotechnical and environmental investigations to evaluate the subsurface conditions at the Site of the proposed Project. At the time of the preliminary investigation, the Project was in the concept design stage and was based on a proposed six-storey residential building with up to 2 levels of underground parking, founded at an approximate elevation of El. 68.3 meters above sea level (masl).

It is Englobe’s understanding that the project has moved to the detailed design phase and is now comprised of an eight-storey multi-unit apartment building with two levels of underground parking. Based on available architectural and civil drawings, the proposed new founding depth will be approximately El 64.6 masl. Groundwater levels measured during the July 2021 geotechnical report range from approximate elevations of El. 68.4 to 68.8 masl, indicating that the excavation of the new building will be approximately 4.0 meters below the measured groundwater table. Based on this understanding, Englobe recommended a hydrogeological assessment and supplementary geotechnical and environmental investigations, which was authorized by Ms. Jemmy Taing on behalf of the Client on June 5, 2023. The results of the geotechnical investigation and supplementary environmental investigation are provided under separate cover.

The Ministry of the Environment, Conservation, and Parks (MECP) requires a Category 3 Permit to Take Water (PTTW) for construction dewatering in excess of 400,000 Litres per day (L/day), while construction dewatering between 50,000 and 400,000 L/day is eligible for registration under the Environmental Activity and Sector Registry (EASR). Englobe understands that dewatering rates for the Site have yet to be estimated. Therefore, the purpose of this Report is to provide estimated groundwater dewatering volumes in support of determining which type of permit or registration will be required during construction.

This Report has the following main objectives:

- Provide a summary of background information on soil, surface water, and groundwater through online databases and existing and/or concurrent investigation reports;
- Process the field test data and laboratory analytical data;
- Estimate temporary groundwater dewatering volumes based on the obtained data and the assumed excavation dimensions based on the provided conceptual site plans; and,
- Provide recommendations to obtain an EASR or PTTW, as required, along with recommendations for additional reporting work to support the associated permit application.

This Report has been prepared specifically and solely for the Project described herein. It presents the factual results of the field investigation and provides temporary dewatering estimates based on the assumed construction methodologies and duration. This Report is also subject to the statement of limitations included in **Section 9**.

2 BACKGROUND

2.1 Document Review

To support the drafting of this Report, the following historical reports were reviewed:

2.1.1 Phase I & Phase II Environmental Site Assessment, 424 Churchill Avenue North, (DST, 2021).

A combined Phase I/II Environmental Site Assessment conducted by DST Consulting Engineers (DST; now operating as Englobe) in 2021 identified 6 areas of potential environmental concern on Site. The potentially contaminating activities identified were the following:

- Existing and former laundromat and dry cleaning facility
- Historical presence of an electric rail line right of way
- Historical presence of a plate-making and engraver workshop, as well as the historical presence of commercial printers
- Historical presence of suspected laundromat and/or dry cleaner
- Historical presence of gasoline service station
- Historical presence of gasoline service station and USTs as well as historical automotive repair shop and underground storage tanks (USTs)

Based on this evaluation, DST advanced a drill program that consisted of advancing three boreholes all instrumented as groundwater monitoring wells. Englobe collected soil and groundwater samples and compared them to the Ontario Ministry of the Environment, Conservation and Parks (MECP) "*Soil, Groundwater and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act*", April 2011 applicable Site Condition Standards (SCSs).

- Based on the laboratory analytical results, concentrations of all analyzed parameters [petroleum hydrocarbon (PHC) fractions F1 to F4 and volatile organic compounds (VOCs)] in the laboratory-submitted soil samples met the applicable MECP Table 7 standard.
- Concentrations of 1,1-dichloroethylene, 1,2-dichloroethylene (cis), 1,2-dichloroethylene (trans), tetrachloroethylene, trichloroethylene, vinyl chloride, PHC fraction 2 (PHC F2) and PHC F3 in submitted groundwater samples exceeded the applicable MECP Table 7 standard.

2.1.2 Preliminary Geotechnical Investigation Report for Proposed Multi-Storey Residential Development at 424 Churchill Avenue North, (DST, 2021).

A Preliminary Geotechnical Investigation conducted by DST was completed in conjunction with the Phase II ESA above. It was understood that the Project was in the concept design stage and consisted of a proposed six-storey residential building with up to two underground levels with footings at an approximate depth of seven m below ground surface (mbgs). The geotechnical investigation report described the Site stratigraphy encountered in three boreholes (MW21-01, MW21-02, and MW21-03) as generally consisting of surficial asphalt overlying a shallow sandy silt layer silty followed by limestone bedrock encountered 1.0 to 1.5 m below ground surface (mbgs). MW21-01 and MW21-03 were advanced through the bedrock using pneumatic drilling methods. Therefore, rock core samples could not be collected to confirm bedrock type and quality at these locations. DST noted that heavily weathered limestone bedrock

was encountered in MW21-02 between 1.0 and 1.5 mbgs and slightly weathered to intact bedrock between 1.5 to 10.0 mbgs.

The groundwater level was between 6.5 to 6.9 mbgs in April 2021. Based on DST's understanding of the Project at the time, excavations extending below the groundwater table were anticipated, and a Hydrogeological Assessment was recommended to assess the expected groundwater inflows during the construction.

2.1.3 Due Diligence Risk Assessment, 424 Churchill Avenue North, (Englobe, 2023).

Englobe completed a Due Diligence Risk Assessment (DDRA) in general compliance with the format of the human health risk assessment (HHRA) and Ecological Risk Assessment (ERA) conducted under Ontario Regulation 153/04. The results of the risk assessment determined the Site was suitable for future residential use with the use of suitable MECP approved Risk Management Measures (RMMs). A key RMM presented was a health and safety plan for subsurface workers operating at the Site that required additional ventilation of trench environments since unacceptable risks were identified for construction workers for inhalation of trench air.

2.1.4 Phase One Environmental Site Assessment, 424 Churchill Avenue North, (Englobe, 2023).

This Phase One ESA report was prepared in accordance with O. Reg. 153/04 (as amended) since it was understood that the report would be utilized as supporting documentation for the filing of a record of site condition (RSC) in accordance with O. Reg. 153/04, as amended. Three areas of Potential Environmental Concern (APECs) were identified at the Phase One Property:

- Operation of Dry-Cleaning Equipment (where chemicals are used)
- Undefined No. 1. Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic
- Importation of Fill Material of Unknown Quality

Further investigation in the form of a Phase Two ESA was recommended to assess the environmental quality of the soil and groundwater at the Site.

2.1.5 Phase Two Environmental Site Assessment, 424 Churchill Avenue North, (Englobe, 2023).

Englobe prepared an updated Phase Two ESA report in accordance with O. Reg. 153/04, as amended, utilizing the field investigation results completed in 2021. The results of the field investigation are presented in Section 2.1.1.

2.1.6 Design Drawings

In addition to the above background documentation, the following design drawings were also reviewed :

- "Topographic Plan of Survey of Lot 1 and Part of Lot 2 (South Danforth Avenue), Registered Plan 204, City of Ottawa", Amended July 12, 2022, prepared by Annis, O'Sullivan, Vollebakk Ltd.
- Site Plan Drawings, Drawing Nos. A000 to A003 inclusive, dated January 06, 2022, prepared by Open Plan Architects Inc.
- Plan Drawings, Drawing Nos. A100 to A106 inclusive, dated January 06, 2022, to October 20, 2022, prepared by Open Plan Architects Inc.

- Elevation Drawings, Drawing Nos. A200 and A201, dated September 12, 2022, prepared by Open Plan Architects Inc.;
- Civil Drawings, Drawings Nos. C101 to C901, dated August 2022, prepared by LRL Associates Ltd.

2.2 Site Description

The Site is located at 424 Churchill Avenue North in Ottawa, Ontario, and is in an area zoned as TM H(24) - Traditional Mainstreet Zone. The Site consists of an irregularly shaped parcel of land that covers an area of approximately 1,000 m². It is developed with a single-storey, one underground basement level, a single-tenant commercial building and an asphalt parking lot. From approximately 1960 to 2020, the Site building was used as a laundromat and dry cleaning facility; however, these operations are no longer ongoing. It is bound to the North by Danforth Avenue, to the East by Churchill Avenue North, to the South by Byron Avenue, and the West by 352 Danforth Avenue.

Please refer to **Figures 1 and 2** in **Appendix A**.

The paved area of the Site is at an approximate elevation of between El. 74.8 and 75.7 masl. The existing topography of the Site slopes downwards approximately 0.3 m to the east and south towards the adjacent streets. There is also a steep slope along the north perimeter of the Site dropping approximately 6 m from the Site down to Danforth Avenue South. The elevation along the north perimeter of the Site ranges from approximately El. 69.1 to 72.0 masl.

The proposed building is expected to cover an approximate area of 882.3 m² and will be comprised of an eight-storey multi-unit residential building with 2 underground parking levels. Based on the architectural and civil Site plans received, the ground floor of the building will be at an approximate elevation of El. 75.92 masl. Therefore, the 2nd partial basement level will be approximately 10.6 meters deeper at an approximate elevation of El. 65.32 masl. The completed building will have a finished average grade of approximately El. 73.10 masl. Due to the split grade of the Site, both basement levels will be partially exposed along the north perimeter of the proposed building.

Based on Englobe's current understanding of the Project, it is anticipated that the excavations will extend to an approximate depth of 12 mbgs, based on the grade difference between the Site and Danforth Avenue to the north. Excavations will extend through the overburden soils and weathered bedrock surface and into the limestone bedrock.

3 METHODOLOGY

This hydrogeological assessment included collecting a groundwater sample for laboratory analysis, completing measurements of groundwater depths, performing short-duration recovery tests, and estimating temporary construction-related groundwater dewatering to identify appropriate provincial permitting and municipal discharge requirements.

The groundwater sampling and short-duration recovery tests utilized groundwater monitoring wells established at the Site as part of previous subsurface investigations by Englobe and additional monitoring wells established within the footprint of the existing building in 2023. The methodologies and procedures applied to perform these key hydrogeological evaluation tasks are described in this Section.

3.1 Previous DST Boreholes (2021)

The drilling component of the preliminary geotechnical and environmental investigation was performed on April 21 and 22, 2021. The drilling consisted of the advancement of three boreholes as monitoring wells, designated as Borehole/Monitoring well Nos. MW21-01 through MW21-03, to approximate depths ranging from 0.0 to 12.8 meters below ground surface (mbgs). All boreholes were terminated within the bedrock underlying the overburden. The

locations of the 2021 boreholes are provided in **Figure 2** in **Appendix A** while their borehole logs are provided in **Appendix B**.

A drilling subcontractor, CCC Geotechnical and Environmental Drilling Ltd. was retained to perform the drilling. All boreholes were drilled using a truck-mounted drill rig. The boreholes were advanced through the overburden using hollow-stem augers. Borehole Nos. MW21-01 and MW21-03 were continued into the bedrock using pneumatic drilling. Borehole No. MW21-02 was advanced through the bedrock using wireline diamond coring methods. 50 mm outer diameter monitoring wells were installed in all boreholes, with screens sealed into the bedrock. The monitoring wells were backfilled with a combination of bentonite hole-plug and silica sand as necessary, and protective flush mount coverings were placed at the ground surface and sealed using an asphalt cold patch.

Overburden soil samples were collected using a standard 50 mm outside diameter split-spoon sampler driven by an automatic Standard Penetration Test (SPT) hammer. The compaction of the cohesionless soils was assessed using recorded SPT N-values.

The subsurface conditions encountered in the boreholes were described by Englobe field staff based on the samples that were recovered. The recovered soil and rock core samples were labelled and submitted to Englobe's Ottawa geotechnical laboratory for further visual review and geotechnical laboratory testing on selected soil samples. One groundwater sample was sent to an external certified environmental laboratory for standard corrosion package testing.

3.2 Supplementary Drilling Fieldwork

The drilling component of the supplementary investigation was performed on July 11, 12, 19, and 20, 2023. Englobe retained Strata Drilling Group Inc. of Ottawa, Ontario (Strata) to complete the drilling program and install the monitoring wells. The locations MW23-01 and MW23-04 were advanced using a Geoprobe Direct Push drilling rig, and locations MW23-2 and MW23-3 within the interior of the building were advanced using a compact drilling rig. Within the overburden, soil samples were collected at 0.75 m intervals using a direct push sampling system (1.5 m macro-core polyvinyl chloride (PVC) liners). Bedrock drilling at exterior locations was completed using a rock air hammer and within the interior by water rotary method. Coring water was potable water from the Ottawa municipal system supplied by Strata.

The monitoring wells consisted of 51 millimetres (mm) or 42.2 mm, schedule 40 PVC riser pipe and 0.010-inch slotted screen sections. The bottom cap was threaded or slip-on 51 mm or 42.2 mm schedule 40 PVC and the top of the riser was capped with a 51 mm or 42.2 mm j-plug. The size of the piping of the wells installed within the interior building monitoring wells (MW23-02 and MW23-3) was 42.2 mm.

Each well was completed with a 3 m well screen installed in the bedrock, and an appropriate length of solid PVC riser pipe with threaded joint connections extending to grade. A sand pack consisting of washed silica sand was backfilled in the annular space around the screened portion of the wells and to approximately 0.3 m above the top of the screen, followed by activated bentonite chips backfilled to within 0.3 m of the ground surface to prevent surface water from infiltrating into the well. All wells installed at the Site were completed with flush-mounted aluminum casing protectors concreted into the ground. The well installation and registration activities were completed by the drilling contractor in accordance with 1990, Regulation 903. The subsurface soil, bedrock, and groundwater conditions at the borehole locations were logged by Englobe field staff based on the samples that were recovered.

All relevant borehole and monitoring well locations are shown in **Figure 2** in **Appendix A** of this Report. Monitoring well construction details are presented schematically on the borehole logs in **Appendix B** of this Report.

3.3 Elevation Survey of Boreholes

Englobe completed a geodetic elevation survey of the boreholes and monitoring wells at the Site using a Trimble™ S7 total station. The borehole and monitoring well locations were referenced to Universal Transverse Mercator North American Datum of 1983 (UTM NAD83) coordinates (zone 18T). Geodetic ground surface elevations were established based on GNSS and local base station telemetry.

The reference coordinates and ground surface elevations obtained for each borehole advanced as part of Englobe's supplementary investigation is shown in Table 3-1 and on the attached borehole and monitoring well logs, provided in **Appendix B**.

Table 3-1 Summary of the geodetic and elevation survey results for completed boreholes

| Well ID | Ground Surface Elevation (masl ^[1]) | Northing (m ^[2]) ^[3] | Easting (m ^[2]) ^[3] |
|---------|---|---|--|
| MW23-01 | 75.27 | 5026692.732 | 441016.497 |
| MW23-02 | 73.57 | 5026684.758 | 441023.163 |
| MW23-03 | 75.92 | 5026673.617 | 440996.601 |
| MW23-04 | 75.77 | 5026672.722 | 441014.891 |

^[1] Meters above sea level.

^[2] Meters.

^[3] UTM (Universal Transverse Mercator), North American Datum 83, Zone 18.

3.4 Groundwater Level Measurements

Groundwater level measurements involved taking both water level and well depth measurements from the top of the well casing. Groundwater level readings were recorded to the nearest 0.1 m and converted into geodetic elevations.

During Englobe's field investigation, groundwater depth measurements were taken upon completion of each borehole on August 14, 2023, and the groundwater depths were measured again by an Englobe technician on August 17, 2023, for the wells that were assessed as part of the Hydraulic Conductivity Testing program described below.

The water levels were measured using a Solinst Canada Ltd. Model 122 oil/water interface meter. The electronic interface probe was decontaminated before the collection of each water level measurement.

3.5 Hydraulic Conductivity Testing

Hydraulic conductivity tests were used to estimate the Site-specific in-situ horizontal hydraulic conductivity of the geological materials intercepted at the well screens of MW23-02, MW23-03, and MW23-04. These hydraulic conductivity tests were performed using short-duration pumping and recovery test methods on August 17, 2023.

At MW23-02, MW23-03, and MW23-04, the hydraulic conductivity tests were performed using a submersible pump to stress the bedrock aquifer to induce the drawdown and then measure the groundwater responses during the pumping

and recovery. Water levels were recorded electronically with a datalogger during the recovery phases of the hydraulic conductivity tests.

The hydraulic conductivity test results are provided in **Appendix C**.

3.6 Groundwater Sampling

3.6.1 Groundwater Sampling Program Completed as Part of the Hydrogeological Assessment

A groundwater sample was collected from monitoring well MW23-02 on September 13, 2023.

Before sampling, the monitoring well was purged using a bladder pump. Englobe used an AquaTROLL™ 400 water quality multi-meter connected to a flow-through cell on the discharge hose to monitor water quality parameters including pH, conductivity, dissolved oxygen (DO), temperature, turbidity, and oxygen redox potential (ORP). The water quality parameters were measured and recorded approximately every 30 seconds during purging. When three consecutive field parameter readings (focusing on temperature, conductivity, and pH) were within 10% of each other, the flow-through cell was removed, and the groundwater sample was collected directly from the dedicated tubing into appropriate laboratory-supplied containers.

The groundwater samples were submitted to Bureau Veritas (BV) for laboratory analytical testing. BV is certified by the Canadian Association for Laboratory Accreditation Inc. (CALA). Each of the submitted groundwater samples was tested based on the required parameters outlined in the City of Ottawa Sanitary Sewer Use Bylaw (No. 2003-514). This included the following chemical parameters:

- Petroleum hydrocarbon (PHC) including Total Oil & Grease & Grease Mineral/Synthetic
- Semi-volatile organics (sVOCs) and Volatile organic compounds (VOCs);
- Total Polychlorinated Biphenyls;
- Total Animal/Vegetable Oil and Greases;
- Escherichia coli;
- Hexachlorobenzene;
- Polycyclic aromatic hydrocarbons (PAHs); and,
- Metals (Total) and inorganic chemical parameters.

The results of the groundwater analytical testing are discussed in Section 6 of this Report, including a comparison to the limits described in the City of Ottawa Sewer Use Bylaw (No. 2003-514). The laboratory Certificates of Analysis are provided for reference in **Appendix D**. A tabulated summary of groundwater sampling results compared to the limits described in the City of Ottawa Sewer Use Bylaw (No. 2003-514) is provided as Table D-1 for reference in **Appendix D**.

3.6.2 Groundwater Sampling Program Completed as Part of the 2023 Phase II ESA Program

As part of Englobe's Phase II ESA efforts, groundwater samples were collected on August 14, 2023 and 28, 2023 from MW23-01 to MW23-04, and submitted for laboratory analysis of PHCs F1 - F4, VOCs, Polycyclic Aromatic Hydrocarbons (PAHs) and metals. The results of the groundwater analytical testing are discussed in the updated Phase II ESA under a separate cover. As noted in Section 2.1.2, groundwater samples were also collected from the monitoring wells MW21-01, MW21-02, and MW21-03 installed as part of ESA completed in 2021. A tabulated summary of groundwater sampling results from 2021 and 2023 ESAs is provided in Table D-2 for reference in **Appendix D**.

3.1 Estimation of Groundwater Dewatering Rates

3.1.1 Dupuit-Forchheimer Flow Approximation

This Section presents the methodology employed in estimating temporary construction groundwater inflow volumes from the bedrock at the Site as well as the potential radius of drawdown in **bedrock**. Based on the Site conditions and available information on the proposed development, groundwater is expected to be encountered in the Project's construction excavation.

Based on the results of the field investigation and data analysis, an analytical approach based on the Dupuit-Forchheimer approximation for an unconfined aquifer (Powers et al., 2007) was used to estimate construction-related groundwater dewatering volumes. Using the assumed excavation dimensions of the proposed building footprint and the assumption that groundwater flows radially from all sides of the excavation, an estimate of groundwater inflows to the proposed excavation can be obtained using the following equation:

$$Q = \frac{\pi K(H^2 - h_w^2)}{\ln\left(\frac{R_o}{R_w}\right)}$$

Where:

- Q = Groundwater extraction (pumping) rate (m³/s)
- K = Hydraulic conductivity (m/s)
- H = Initial groundwater level (m)
- h_w = Groundwater level at the base of the excavation (m)
- R_o = Radius of Influence for a point source (m)
- R_s = Equivalent radius of the source (m)

The lateral extent of groundwater drawdown or radius of influence associated with groundwater dewatering was estimated using the groundwater flow model and the Sichart and Kryieleis relationship (Powers et al., 2007):

$$R_o = 3000(H-h_w)\sqrt{K}$$

Where:

- R_o = Radius of influence for a radial flow structure (m)
- K = Hydraulic conductivity (m/s)
- H = Initial groundwater level (m)
- h_w = Groundwater level at the base of excavation (m)

Based on the length and width of the excavation, the equivalent radius of influence for a point source can be calculated based on the following equation:

$$R_w = \sqrt{\frac{ab}{\pi}}$$

Where:

- R_w = Equivalent radius of influence of a point source (m)

a = Length of exaction area (m)

b = Width of exaction area (m)

The values of temporary construction-related groundwater dewatering volumes were estimated using the preceding analytical approximations and were based on the assumed construction methodologies, sequencing, and duration. Further, the preceding analytical approximation assumes an unlined vertically walled excavation.

During construction, the Contractor will have to manage water that accumulates in the open excavation during a rainfall event. These incidental precipitation volumes were calculated volumetrically based on a review of Intensity-duration-frequency (IDF) curves (Ontario Ministry of Transportation, December 2021) for the Site. The analysis determined the rainfall over 24 hours for 5-year, 10-year, 25-year, 50-year, and 100-year events was 68.7 mm, 79.9 mm, 94.0 mm, 104.4 mm, and 114.8 mm respectively. A value of 114.8 mm was used to determine the incidental precipitation volumes for the proposed excavation.

The purpose of using the highest observed one-day rainfall event in the last 100 years is to ensure that the construction Contractor is prepared to handle a similar rainfall event during construction without impeding construction progress. Therefore, the daily maximum groundwater-taking rates include groundwater inflow volume estimates from the Dupuit-Forchheimer approximations plus the incidental precipitation volume estimates.

The following general assumptions were made when estimating temporary groundwater dewatering rates during construction:

- It was assumed that the hydraulic conductivity of the geological materials is the same throughout the Site and does not vary by location (isotropic conditions).
- It was assumed that there is no upward hydraulic pressure or artesian conditions requiring pressure relief.
- Groundwater inflow rates were estimated based on the proposed development construction as a stand-alone project, with no other groundwater-taking or dewatering activities within 500 m of the Site.
- The extent of construction dewatering will vary depending on the type of material encountered in the actual excavation, excavation dimensions, the depth to groundwater, and the required depth of dewatering. The groundwater dewatering estimates presented in this Report are based on the assumptions described herein regarding the excavation dimensions, construction method, groundwater levels, and hydraulic conductivity.
- Contractors bidding on the construction and dewatering services should make their own interpretation of the information presented in this Report and other Project documents, including bid design drawings, and draw their own conclusions as to how the conditions may affect their work or design.
- Changes in the design will require the recalculation of estimates presented in this Report.
- Should significant water-bearing zones be encountered during excavation, Englobe recommends that supplementary hydraulic conductivity testing of the newly encountered water-bearing permeable materials be completed to update the groundwater inflow estimates presented in this Report.

It is important to emphasize that groundwater levels are subject to seasonal fluctuations and in response to precipitation and snowmelt events. They are generally anticipated to be at their highest level during the thaw in early spring.

Contractors and Designers are cautioned that in addition to the above, the estimated groundwater estimates presented for the excavation associated with the proposed eight-storey multi-unit apartment building and underground garages do not include groundwater dewatering estimates associated with the excavations for sanitary and storm sewers or manholes or other underground infrastructure.

4 DESCRIPTION OF SUBSURFACE CONDITIONS

4.1 Regional Geology

Englobe completed a brief review of publicly available information for the Site, including databases published by the Ontario Geological Survey (OGS) and the Ministry of Northern Development and Mines. Based on this review, the Site is located within the paleozoic geology region of Ottawa known as the Gull River formation, which includes interbedded silty dolostone, lithographic to fine crystalline limestone, oolitic limestone shale and fine-grained calcareous quartz sandstone (William, et al, 1984). The bedrock geology consists of limestone, dolostone, shale, arkose, and sandstone as part of the Ottawa Group, Simcoe Group, and Shadow Lake Formation (Ontario Geological Survey, 2011).

4.2 Site-Specific Stratigraphy

Details of the subsurface soil conditions encountered in the boreholes advanced during previous subsurface investigations by DST and Englobe are presented on the borehole logs in **Appendix B**. A general overview of the soil stratigraphy is provided in this Section.

It should be noted that the boundaries between strata have been inferred from observations made during drilling. The strata boundaries generally represent a *transition* from one soil type to another and should not be inferred to represent an exact plane of geological change. Conditions may vary between and beyond the borehole locations.

Considering the results of the field and laboratory investigations, as described by others, the following descriptions provide a generalized overview of the different subsoils encountered in the boreholes at the Site:

Surficial Cover: Asphalt pavement was present surficially in boreholes MW21-01 through MW21-03, and MW23-01. The surficial cover at these locations consisted of asphalt pavement with approximate thicknesses ranging from 100 to 140 mm. A concrete slab was present surficially in boreholes MW23-02 and MW23-03. The surficial cover at these locations consisted of a concrete slab with an approximate thickness of 25 mm.

Fill Materials: Cohesionless fill material was encountered superficially in borehole MW23-04 and underlying the surficial asphalt/concrete pavement at all other borehole locations, extending to approximate depths ranging from 0.3 to 0.5 mbgs. The fill material was heterogeneous and consisted of silty sand to sandy gravel, with a trace of some gravel and a trace of some silt.

Native Sandy Silt: A deposit of native sandy silt was encountered underlying the FILL material in Borehole Nos. MW21-01 through MW21-03, MW23-02, and MW23-04, at approximate depths ranging from 0.3 to 0.5 mbgs and extended to approximate depths ranging from 0.8 to 1.2 mbgs. The native sandy silt deposit was described as damp and brown in colour.

Bedrock: Auger refusal on bedrock was encountered in all boreholes at approximate depths ranging from 0.2 mbgs to 1.4 mbgs. All boreholes were terminated within the bedrock at approximate depths ranging from 8.2 to 16.8 mbgs. Boreholes MW21-01, MW21-03, and MW23-02 through MW23-04 were continued into the bedrock using pneumatic drilling methods for environmental purposes for the Phase II ESA performed in conjunction with this investigation, therefore bedrock type and quality could not be confirmed at these locations.

Boreholes MW21-02 and MW23-04 were advanced into bedrock using HQ-size wireline diamond coring methods. The upper approximately 0.5 to 1.0 m of the bedrock consisted of highly weathered and fractured limestone. The intact portions of the bedrock consisted predominantly of grey, slightly weathered limestone becoming fresh with depth and medium to thickly bedded. The measured Rock Quality Designation (RQD) ranged from 37 to 100 percent. The bedrock was generally in poor to good condition with areas of excellent quality. Boreholes MW21-02 and MW 23-04 were terminated within the limestone bedrock at approximate depths of 10.0 and 16.8 mbgs, respectively.

4.3 Hydrogeology

During drilling activities completed in 2021 and 2023, the thickness of the fill material at the borehole locations ranged between 0.2 - 0.4 m. The soil recovery during the drilling was minimal, and thus, a perched water table within the overburden materials of the Site was not identified at these borehole locations. Groundwater was only intercepted in the bedrock at the borehole locations completed in 2021 and 2023. As discussed in the preceding Sections of this report, groundwater levels were obtained in 2021 and 2023. Observed groundwater levels from 2021 and 2023 in the monitoring wells screened in the bedrock are summarized in **Table 4-1**.

Table 4-1 Summary of groundwater level observations (historical and current)

| Borehole ID | Approx. Ground Elevation [m asl] | Screened Interval Depth | | Screened Stratigraphic Layer(s) | Approximate Groundwater Level (m bgs) | | | | | | | |
|---|-------------------------------------|-------------------------|---------|--|---------------------------------------|---------------------|------|----------------------|---------------------|------|------|-------|
| | | [m bgs] | [m asl] | | Previous Observations | | | Current Observations | | | | |
| | | | | | Date | Approx. Water Level | | Date | Approx. Water Level | | | |
| | | | | | | | | | | | | |
| Historical Boreholes/Monitoring Wells | | | | | | | | | | | | |
| MW21-01 | 75.36 | 8.1 | 67.3 | Bedrock (assume Limestone) | 30-Apr-21 | 6.45 | 6.50 | 68.86 | 15-Aug-23 | NM | NM | NM |
| | | 11.1 | 64.3 | | | | | | | | | |
| MW21-02 | 75.53 | 7.0 | 68.5 | Limestone - with shale parting, grey. Excellent Quality. | 30-Apr-21 | 6.74 | 6.80 | 68.73 | 15-Aug-23 | 5.65 | 5.71 | 69.82 |
| | | 10.0 | 65.5 | | | | | | | | | |
| MW21-03 | 75.35 | 9.8 | 65.6 | Bedrock (assume Limestone) | 30-Apr-21 | 6.86 | 6.90 | 68.45 | 15-Aug-23 | 6.71 | 6.75 | 68.60 |
| | | 12.8 | 62.6 | | | | | | | | | |
| Supplementary Investigation Boreholes/Monitoring Wells | | | | | | | | | | | | |
| MW23-01 | 75.27 | 13.8 | 61.5 | Limestone - with shale parting, grey. | 14-Aug-23 | 5.89 | 5.98 | 69.29 | 17-Aug-23 | NM | NM | NM |
| | | 16.8 | 58.5 | | | | | | | | | |
| MW23-02 | 73.57 | 6.2 | 67.4 | Bedrock (assume Limestone) | 14-Aug-23 | 3.90 | 4.00 | 69.57 | 17-Aug-23 | 4.22 | 4.32 | 69.25 |
| | | 9 | 64.6 | | | | | | | | | |
| MW23-03 | 75.92 | 6.2 | 69.7 | Bedrock (assume Limestone) | 14-Aug-23 | 6.23 | 6.33 | 69.59 | 17-Aug-23 | 6.56 | 6.66 | 69.26 |
| | | 9 | 66.9 | | | | | | | | | |
| MW23-04 | 75.77 | 4.6 | 71.2 | Bedrock (assume Limestone) | 14-Aug-23 | 5.99 | 6.07 | 69.70 | 17-Aug-23 | 6.33 | 6.41 | 69.36 |
| | | 7.6 | 68.2 | | | | | | | | | |

Notes:

- 1) "masl" means metres above sea level.
- 2) "mbgs" means metres below ground surface
- 3) "mbtoc" mean metres below the top of the well casing.
- 4) "NM" means not measured.
- 5) Ground elevation for MW23-02 is located within the basement of the building footprint

It should be noted that groundwater levels are transient and tend to fluctuate with the seasons and periods of precipitation. In addition, the groundwater conditions encountered during the limited monitoring period for this investigation may not be representative of the groundwater conditions during the construction period. Furthermore, groundwater conditions may vary between and beyond the borehole locations.

Based on the observed groundwater conditions, one unconfined aquifer is present at the Site. The groundwater levels in wells screened within the bedrock at the Site have been measured between approximately 5.71 mbgs and 6.86 mbgs.

The hydraulic conductivity testing results indicated that the estimated horizontal hydraulic conductivity values ranged from 4.76×10^{-8} m/s to 5.91×10^{-8} m/s for the monitoring wells MW23-02 and MW23-03, respectively, while values ranging from 1.08×10^{-5} m/s (observation well data) to 5.51×10^{-5} m/s (pumping well data) were estimated from the results of a short duration recovery test carried out in MW23-04. The hydraulic conductivity test results are provided in **Appendix C** and a summary is provided in **Table 4-2** below.

Table 4-2 Summary of estimated hydraulic conductivity values

| Well ID | Screened Interval [m bgs / m asl] | Sample Number/ Description | Horizontal Hydraulic Conductivity [m/s] | Data Analysis Method |
|--|-----------------------------------|--|---|----------------------------------|
| WELLS SCREENED IN BEDROCK | | | | |
| MW23-02 | 6.2 - 9.2 / 67.4 - 64.4 | N/A = Assumed Limestone similar to MW23-01 | 4.76E-08 | Bouwer-Rice (1976) |
| MW23-03 | 6.2 - 9.2 / 69.8 - 66.7 | N/A = Assumed Limestone similar to MW23-01 | 5.91E-08 | Dagan (1978) |
| MW23-04 | 4.6 - 8.2 / 71.2 - 67.6 | N/A = Assumed Limestone similar to MW23-01 | 1.08E-05 | Theis (1935) - Observation wells |
| MW23-04 | 4.6 - 8.2 / 71.2 - 67.6 | N/A = Assumed Limestone similar to MW23-01 | 5.51E-05 | Theis (1935) - Pumping Well |
| Bedrock Mean Hydraulic Conductivity (m/s) | | | 1.14E-06 | |

5 ASSUMED CONSTRUCTION-RELATED TEMPORARY GROUNDWATER DEWATERING

To facilitate the construction of the proposed building, an excavation extending below the observed groundwater levels is anticipated. Based on Englobe’s understanding of the proposed development and the Site-specific stratigraphy, the excavation is expected to extend into the existing limestone bedrock (12 mbgs), at an approximate elevation of 63.8 masl. However, it is recommended that Englobe be provided the final design drawings and associated specifications for the proposed excavation activities for review to confirm the validity of these assumptions before commencing.

The following Sections provide temporary construction-related groundwater dewatering estimates for a single building excavation covering the extent of the proposed building depicted in the design drawings reviewed as part of this assessment and based on the Dupuit-Forchheimer method discussed in the preceding Sections of this report.

The geotechnical investigation report by Englobe in September 2023 stated: “*Given that the founding depth of the proposed foundations will extend up to approximately 12 mbgs, consideration should be given to designing the building basement as a fully waterproof ‘bath-tub’ design (without external perimeter drains) to avoid potential adverse impacts due to moisture movements in the immediate areas around the proposed building footprint.*”. Therefore, no estimates of long-term steady-state groundwater inflow to a perimeter drainage system for the underground levels are not provided.

5.1 Groundwater Inflows from the Bedrock to the Excavation

Based on the observed Site conditions, it appears that the groundwater in the overburden on Site consists of an unconfined aquifer. The Dupuit-Forchheimer approximation for an unconfined aquifer respects the following assumptions and parameters. Groundwater inflow rates under the steady state conditions for two separate scenarios (assumed average conditions case and assumed worst-case scenarios) were estimated based on the following information and assumptions:

- The excavation works associated with the proposed building construction are assumed to be carried out at once, with only one excavation open at a time requiring dewatering.

- All scenarios for the excavation involve water taking from a single unconfined aquifer in the bedrock identified in Englobe's boreholes.
- It is Englobe's current understanding, based on the latest Site plans available at the time of this report, that foundations will be founded at an approximate depth of 12 mbgs (approximately El. 63.8 masl). It is assumed the water level will be lowered down to approximately 0.5 m below the excavation floor, therefore at a depth of 12.5 mbgs or an elevation of 63.3 masl.
- For the average conditions case scenario, it was assumed that the hydraulic conductivity of the geological materials would be the geometric mean hydraulic conductivity value estimated from the *in-situ* hydraulic conductivity tests that were completed in MW23-02, MW23-03 and MW23-04 within the bedrock (i.e., 1.14×10^{-6} m/s).
- For the worst conditions case scenario, it was assumed that the hydraulic conductivity of the geological materials would be the highest hydraulic conductivity value estimated from the hydraulic conductivity test that was completed at MW21-04 (i.e., 5.51×10^{-5} m/s) and analyzed using the Theis solution.
- For the average case scenario, the groundwater level in the vicinity of the proposed excavation was assumed to be the average of groundwater levels (i.e., 69.26 masl or 6.3 mbgs) observed in the bedrock from MW21-02 (August 15, 2023), MW21-03 (August 15, 2023), MW23-01 (August 14, 2023), MW23-03 (August 14, 2023), and MW23-04 (August 14, 2023) except for MW23-02, which is located in the basement of the building).
- For the assumed worst-case scenario, the groundwater level in the vicinity of the proposed excavation was assumed to be the highest water level measured in the bedrock (69.82 masl or 5.71 mbgs in MW21-02 on August 15, 2023).
- Based on the results of bedrock core evaluations completed on limestone bedrock core samples obtained from MW21-02 and MW23-01, higher quality bedrock is anticipated to act as an aquitard beneath the shallow weathered bedrock aquifer, which generally starts at 6 mbgs. The bottom of the aquifer was therefore assumed to be at 14.0 mbgs. The aquifer thickness in each of the cases was assumed to be approximately 8.29 m (measured from the highest groundwater level measured of 5.71 mbgs, and the bottom of the aquifer, 14.0 mbgs).
- For ease of calculation, an open excavation was assumed and upward seepage or pressure from the observed geological units was assumed to be negligible (absence of artesian pressure).
- It was assumed that surface water runoff from precipitation would be diverted or bypassed before the commencement of dewatering and surface water contribution to the dewatering is assumed to be negligible, however, the water volume from precipitation from a 100-year storm event (114.8 mm) falling directly within the excavation area of 1225 m² was included in the calculations.
- Groundwater will travel easily through the overburden soils and weathered bedrock. Existing utility trenches which join or intersect the excavations may act as a drain and supply off-site water into the excavation. It was assumed that these existing utility trenches would be plugged at the outset of construction to mitigate this possibility.
- A safety factor of two to account for the variabilities in the hydraulic properties and account for remaining transient groundwater inflows during the initial phase of the groundwater taking from the native materials before the groundwater system reaches steady-state.
- These calculations apply only to the construction dewatering phase of the project and do not apply to the post-construction stages of the project.

5.2 Summary of Estimates

Table 5-1 details the inflow estimates for the case of the average condition and assumed worst-case scenarios, the incidental precipitation volumes, and the total daily volumes. Incidental precipitation into the excavation will need to be managed during construction. A 114.8 mm rain event (the highest observed one-day precipitation amount in the last 100 years for the Site) over a 24-hour period would increase groundwater-taking rates by the volumes indicated in **Table 5-1**.

Table 5-1 Estimates of groundwater taking volumes

| Excavation Description | Scenario | Estimated Inflows [L/day] | Incidental Precipitation ^[1] [L/day] | Total Daily Volumes ^[2] [L/day] |
|--|-------------------------|---------------------------|---|--|
| Groundwater Inflows from the bedrock to the Excavation | | | | |
| Excavation Area: 1225 m² / Excavation Depth: 12 mbgs | Average Conditions Case | 50,699 | 140,580 | 191,279 |
| | Assumed Worst Case | 921,158 | 140,580 | 1,061,738 |

[1] Volumetric estimate of water that could accumulate in an open excavation because of direct precipitation. Estimated based on the assumed excavation dimensions and the highest recorded 24-hour rainfall in the last 100 years (Site).

[2] Based on the assumed excavation dimensions, estimated from provided current design drawings.

Groundwater taking estimates are based on the assumed construction duration, excavation dimensions, construction sequencing, and methodology; therefore, should there be changes in these items, revised groundwater-taking volumes will be required. It is the dewatering Contractor's responsibility to determine the type and extent of the dewatering system required.

Based on the above the Contractor performing the proposed construction and excavation on Site will require a Category 3 Permit to Take Water (PTTW) for construction dewatering, as the anticipated worst-case scenario dewatering rate exceeds 400,000 L/day. Given the minimum review period of 90 days for a PTTW, Englobe recommends applying for a Category 3 PTTW based on the worst-case scenario assumptions at least three months in advance of the construction start date to avoid potential significant delays in construction if groundwater inflow rates encountered during excavation work exceed 400,000 L/day. It should be noted that it is the responsibility of the Client and their dewatering Contractor to ensure that taking volumes are within applicable permit limits.

The predicted radius of influence of groundwater taking associated with the excavation for the proposed development is anticipated to range approximately from 40 m (average case) to 171 m (worst case).

Further details on the estimates of groundwater-taking volumes are provided in **Appendix E**.

6 GROUNDWATER SAMPLING RESULTS AND DISCHARGE OF RECOVERED GROUNDWATER

As summarized in Section 3.6.1, groundwater samples were collected at the Site as part of separate Englobe subsurface environmental investigations. Additionally, as summarized in Section 3.6.2, a groundwater sample obtained from MW23-02 was submitted for analysis of the parameters listed in the City of Ottawa Sewer Use By-law No. 2003-514.

A summary of the parameters exceeding the City of Ottawa Sewer Use By-law No. 2003-514 and the MECP Table 7 Standards are presented in Error! Reference source not found..

Table 6-1 Summary of parameter exceedances for tested groundwater samples

| Sample Location | Parameters Exceeding City of Ottawa Sewer Use By-law No. 2003-514 for: | | Parameters Exceeding MECP Table 7 Standards ^[3] |
|------------------------|--|--|--|
| | Sanitary Sewer Discharge Limits ^[1] | Storm Sewer Discharge Limits ^[2] | |
| MW21-01 ^[4] | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | Cis-1,2-dichloroethylene, Trans-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride |
| MW21-02 | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | PHC F2, PHC F3, 1,1-Dichloroethylene, Cis-1,2-dichloroethylene, Trans-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride |
| MW21-03 ^[4] | -- | Tetrachloroethylene | Tetrachloroethylene, Trichloroethylene |
| MW23-01 ^[4] | Cis-1,2-dichloroethylene, Trichloroethylene | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | 1,1-Dichloroethylene, Cis-1,2-dichloroethylene, Trans-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride |
| MW23-02 | Tetrachloroethylene, Trichloroethylene | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | PHC F1, 1,1-Dichloroethylene, Cis-1,2-dichloroethylene, Trans-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride |
| MW23-03 ^[4] | Cis-1,2-dichloroethylene | Cis-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene | 1,1-Dichloroethylene, Cis-1,2-dichloroethylene, Trans-1,2-dichloroethylene, Tetrachloroethylene, Trichloroethylene, Vinyl Chloride |
| MW23-04 ^[4] | -- | Tetrachloroethylene | Tetrachloroethylene, Trichloroethylene |

^[1] The City of Ottawa Sewer Use By-law No. 2003-514, Table 1 Limits for Sanitary and Combined Sewers Discharge.

^[2] The City of Ottawa Sewer Use By-law No. 2003-514, Table 2 Limits for Storm Sewer Discharge.

^[3] MECP "Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act", April 2011, Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition - All Types of Property Use, Medium-Fine Textured Soils

^[4] The analysis included only selected parameters in comparison to The City of Ottawa Sewer Use By-Law Parameters.

Laboratory analytical summary tables for the groundwater sampling completed as part of separate Englobe subsurface environmental investigations as well as for the groundwater sampling completed as part of this Hydrogeological Assessment Data and the laboratory certificates of analysis are presented in **Appendix D**.

The concentrations of various chlorinated VOCs (1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, tetrachloroethylene, trichloroethylene, vinyl chloride) were detected at concentrations exceeding the MECP Table 7 Standards generally at locations across the Site. These exceedances are likely related to the historical operations of a dry-cleaning facility at the Site.

In our opinion, it is reasonable to expect that chlorinated VOC vapours will migrate from groundwater to excavations associated with construction activities. Englobe recommends that a Project-Specific Health and Safety Plan (HASP) be required for the construction work. The development of a HASP is typically the responsibility of the contractor.

Englobe recommends that the contractor addresses the occurrence of these chlorinated VOCs in groundwater in the HASP by way of developing task-appropriate personal protective measures and establishing real-time vapour monitoring, trigger levels, and associated mitigation measures.

Based on the above-noted groundwater analytical results, it is anticipated that treatment of dewatering effluent will be required to reduce the concentrations of the various chlorinated VOCs to below the applicable discharge limits before discharge to the municipal sewer system. It is recommended that the contractor retain the services of a specialized dewatering water treatment contractor to supply, maintain, and monitor a suitable water treatment system operated under Environmental Compliance Approval. The construction contractor is solely responsible for obtaining a permit from the City of Ottawa for the discharge of water to the sanitary or storm sewer. Englobe recommends that a project-specific groundwater management plan be required for the construction work.

It should be noted that the temporary storage of extracted groundwater on-site may be required depending on the capacity of the treatment system and local sewer system.

It is also recommended that the contractor develop a spill management and control plan to implement during construction, to limit the potential for introduction of groundwater contamination from spills related to construction activities.

7 POTENTIAL FOR POSSIBLE MOBILIZATION OF CONTAMINANTS

Englobe completed an environmental database review of federal, provincial and private sources database records for the Site to identify issues of potential environmental concern related to groundwater contamination. The environmental database review was completed by obtaining an EcoLog ERIS™ report for an area with a radius of approximately 250 m from the Site.

A summary of potentially contaminating activities, as identified in the EcoLog ERIS™ database review and the DST Phase I ESA within a 250-m radius of the Site is provided in **Table 7-1** below. A copy of the EcoLog ERIS™ report has been provided in **Appendix F**.

Table 7-1 Summary of potentially contaminating activities from Ecolog Eris™ database review

| Name/Location | Approximate Distance from the Site | Details |
|--|---|---|
| Laundry Land 424 Churchill Avenue North | On-Site | - Laundry Land was registered in the Hazardous Waste Generators (GEN) database as a waste generator (generator number ON0550900) of halogenated solvents (241 H) from 1986 to Jan 2021. Laundry Land was described as a power laundry/cleaner from 1986 to 2008 and a coin-operated laundry and dry cleaners from 2008 to Jan 2021. -One record was identified in the Dry-Cleaning Facilities database (CDRY) under Laundry Land Dry Cleaning, as an active dry-cleaning facility listed for 2018. |
| Blyth Academy Ottawa 352 Danforth Ave | Directly adjacent to the west of the Site | -Four records were identified in the GEN database, registered under generator number ON7687172 as an Elementary and Secondary School, for generating inorganic (148) and organic (263) laboratory chemicals from 2013 to 2016 |
| Albert & Son Engravers 412B Churchill Ave North | 30 m north of the Site | -One record was identified in the GEN database, registered under generator number ON2135900 as plate making, etc., for generating acid waste-heavy metals (112), aromatic solvents (211), and aliphatic solvents (212) from 1996 to 1998 |

| Name/Location | Approximate Distance from the Site | Details |
|---|------------------------------------|--|
| Pearl Cleaners 354B Richmond Road | 65 m north of the Site | -One record was identified in the GEN database, registered under generator number ON1984500 as Other Clothing etc., for generating halogenated solvents (241) from 1995 to 2001 |
| Velo Sportable Cycle / 1534244 Ontario Inc. 358 Richmond Road | 50 m northwest of the Site | -One record was identified in the GEN database, registered as Velo Sportable Cycle under generator number ON1830701 as a Sporting Goods Store, for generating paint/pigment/coating residues (145), aliphatic solvents (212), petroleum distillates (213), light fuels (221), oil skimmings and sludges (251), and waste oils and lubricants (252) from 2000 to 2001 -One record was identified in the GEN database, registered as 1534244 Ontario Inc. under generator number ON5993376 as a Sporting Goods Store, for generating aromatic solvents (211) and petroleum distillates (213) in 2003, 2004, and 2006. |
| Ottawa-Carleton District School Board 345 Ravenhill Ave | 20 m south of the Site | -Eleven records were identified in the GEN database, registered as Ottawa-Carleton District School Board under generator number ON6810332 as an Elementary and Secondary School, for generating paint/pigment/coating residues (145) and other specified inorganics (146) from 2009 to Jan 2021 |
| Mountain Equipment Co-op 366 Richmond Road | 45 m northwest of the Site | -Eight records were identified in the GEN database, registered under generator number ON6336429 as a Sporting Goods Store, Other Personal and Household Goods Repair and Maintenance, for generating oil skimmings and sludges (251), waste oil and lubricants (252), and other specified inorganics (146) from 2011 to 2019 |
| Private Residence 518 Byron Avenue | 80 m southwest of the Site | -One record was identified in the Ontario Spills (SPL) database for 400 L of Furnace oil spilled to the ground due to tank corrosion on October 28, 1989. Environmental impact was deemed as "Not Anticipated" in the record. |
| Frederick Grodde Ltd. 379 Danforth Ave | 130 m west of the Site | -Three records were identified in the GEN database, registered under generator number ON1788600, for generating aromatic solvents (211) and petroleum distillates (213) from 1993 to 2004. |
| Joseph C. Gaffney 372 Richmond Rd. | 110 m northwest of the Site | -Two records were identified in the GEN database, registered under generator number ON1338700 as a Gasoline service station, for generating light fuel (221) from 1990 to 1998 |
| Mr. Arnold Midgley, The Trustees of Kitchissippi United Church 450 Churchill Ave. North | 120 m south of the Site | - One record in the Record of Site Condition (RSC) database for the property indicating that a record of site condition was filed on June 16, 2011, for a change in property use from institutional to residential. |
| Ottawa Carleton Construction Group Ltd. 386 Richmond Rd. | 130 m west of the Site | -One record was identified in the GEN database, registered under generator number ON3053460, for generating light fuels (221) in 2019 |
| Bank of Nova Scotia 388 Richmond Rd. | 135 m west of the Site | -Four records were identified in the Ontario Spills (SPL) database. One spill was 2L of furnace oil to the ground on May 4, 1993. The second spill was of an unknown quantity of fuel oil in the parking lot on March 8, 2002. The third spill was 50L of furnace oil to the ground on March 8, 2002. The fourth spill was of |

| Name/Location | Approximate Distance from the Site | Details |
|---|------------------------------------|---|
| | | an unknown quantity of furnace oil to the ground on Nov 8, 2005. Possible soil contamination was noted in the records for these spills. |
| Avenues Garage Ltd. 319 Richmond Rd. | 150 m north of the Site | -Eight records were listed in fuel storage tank databases identifying the presence of three underground storage tanks (USTs), installed in 1984. These tanks were listed as expired in 2009. -One record was identified in the GEN database, registered under generator number ON3859040 for General Automotive Repair, for generating light fuels (221) in 2013 |
| Al Parsons 376 Madison Ave. | 170 m northwest of the Site | -Two records were identified in the GEN database, registered under generator number ON1029900 for Electronic HH. APP., for generating petroleum distillates (213) from 1988 to 1998 |
| Private Residence 389 Danforth Ave. | 155 m west of the Site | -One record was identified in the SPL database for an unknown quantity of Furnace oil spilled to the ground due to tank corrosion on March 29, 1990. Environmental impact on vegetation was deemed as "Possible" in the record. |
| Imagnan Corp. 376 Churchill Ave. North | 175 m north of the Site | -One record was identified in the SCT Directory in 1995 for Industrial machinery manufacturing. |
| Gold Cast 377 Churchill Ave. North | 180 m north of the Site | -One record was identified in the SCT Directory in 1993 for Jewellery and Silverware Manufacturing. |
| 393 Richmond Rd. | 195 m west of the Site | -Two records were identified in the SCT Directory in 1987 for Simply Wood Furnishing Ltd. For Wood Kitchen Cabinet and Counter Top Manufacturing -One record was identified in the GEN database, registered under Mike Steinberg under generator number ON1851952, for light fuels (221) and waste oils and lubricants (252) from 2002 to 2005 |
| District Realty 411 Roosevelt Ave. | 200 m west of the Site | -One record was identified in the GEN database, registered under generator number ON9318155 as Lessors of residential buildings and dwellings, for waste oils and lubricants (252) in 2014 |
| Tubman Funeral Homes and Cremation 403 Richmond Rd. | 210 m west of the Site | -Sixteen records were identified in the GEN database, registered under generator number ONF017100, for pharmaceuticals (261) and pathological wastes (312) from 1988 to Jan 2021. |
| Private Residence 356 Whitby Ave. | 215 m north of the Site | -One record was identified in the SPL database for an unknown quantity of Furnace oil spilled to the ground on August 1, 1996. Environmental impact on soil was deemed as "Possible" in the record. |
| Cameron Veterinary Professional Corp 348 Whitby Ave. | 210 m north of the Site | -Four records were identified in the GEN database, registered under generator number ON3065966, for pharmaceuticals (261), pathological wastes (312), waste crankcase oils and lubricants (252), aliphatic solvents and residues (212), and photo processing wastes (264) from 2016 to Jan 2021. |
| 364 Churchill Ave. North | 220 m north of the Site | -Four records were identified in the GEN database, registered under generator number ON0785600 under Metrotype Graphics for Platemaking, etc., for photo processing wastes (264) from 1988 to 1998 and 2007 to 2015. - Eight records were identified in the GEN database, registered under generator number ON2549408 under Cameron Veterinary Professional |

| Name/Location | Approximate Distance from the Site | Details |
|---|------------------------------------|--|
| | | Corporation for Veterinary Services, for pathological wastes (312) and pharmaceutical wastes (261) from 2007 to 2015. |
| Canadian Waste Services 363 Churchill Ave. North | 220 m northeast of the Site | -One record was identified in the SPL database for 140L of hydraulic fluid spilled onto the road on August 2, 2001. Environmental impact on soil was deemed as "Not Anticipated" in the record. |
| 8596239 Canada Inc. 400 Athlone Ave. | 250 m northeast of the Site | - One record was identified in the SPL database for an unknown quantity of hydraulic oil spilled to the ground on Nov. 14, 2013. Environmental impact on soil was deemed as "Possible" in the record. |
| J. Clark Pharmacy Care Ltd. 410 Richmond Rd. | 235 m west of the Site | - Five records were identified in the GEN database, registered under generator number ON7312008, for pathological wastes (312) and pharmaceutical wastes from 2015 to Jan 2021. |
| 290 Picton Ave. | 240 m northeast of the Site | -One record was identified in the SCT Directory in 1981 for Y's Owl Co-operative Inc. for plastic products manufacturing. -One record was identified in the SCT Directory in 1987 for Orezone Gold Corporation for support activities for mining. |
| Double L Printers 416 Richmond Rd. | 250 m west of the Site | -Two records were identified in the SCT Directory in 1969 for commercial printing |

Englobe's 2023 Phase II ESA identified PHCs and VOCs as the primary contaminants of concern in groundwater at the Site. The exceedances (i.e., contaminant concentrations exceeding the applicable site condition standard) of PHCs in 2023 were limited to groundwater samples collected from MW21-02 and MW23-02. The exceedances of chlorinated VOCs were identified in groundwater samples collected from all monitoring wells located onsite (i.e., MW21-01, MW21-02, MW21-03, MW23-01, MW23-02, MW23-03, and MW23-04). The detected concentrations of tetrachloroethylene in 2023 groundwater samples ranged from 1,400 µg/L (MW23-02) to 2.4 µg/L (MW21-03). The daughter products of tetrachloroethylene such as trichloroethylene and vinyl chloride also exceeded the applicable site condition standards in groundwater samples from the majority of the monitoring wells onsite. It should be noted that the majority of chlorinated VOC contaminant mass in groundwater would be situated within the footprint of proposed underground garages associated with the planned development onsite.

The vertical and horizontal extents of the chlorinated VOC plume in groundwater at the Site and surrounding area are not fully known, further, the reported concentrations of chlorinated VOCs such as tetrachloroethylene, trichloroethylene, and vinyl chloride exceed the component values (i.e., GW2 groundwater-to-indoor-air transport pathway industrial and/or residential component values for the medium to fine-textured soils) specified in the MECP document titled "*Rationale for the development of soil and groundwater standards for use at contaminated sites in Ontario*" dated April 15, 2011. The purpose of comparing the groundwater sampling results to the MECP component values is to evaluate the potential for VOC exposure risks to the construction workers involved in the subsurface work and the potential for VOC exposure risks via groundwater-to-indoor-air transport pathway to the surrounding properties during the construction dewatering induced migration of chlorinated VOC plume. It should be further noted that chlorinated VOCs are highly soluble in groundwater and capable of mobilizing and migrating in the bedrock unit underlying the Site.

During the construction, the hydraulic gradients between the planned excavation area within the Site and surrounding properties are expected to change given the lowering of the groundwater table with groundwater extraction and resulting in the formation of a hydraulic sink with faster contaminant travel times. Further, the potential presence of

man-made preferential pathways and interconnected bedrock fracture pathways within the Site and surrounding area could accelerate the movement of groundwater.

Thus, based on the above assessment and estimated radius of influence of groundwater dewatering, the potential for the mobilization of chlorinated VOCs as a result of groundwater dewatering could not be ruled out during the construction.

Englobe recommends that the appropriate engineered groundwater control systems to minimize groundwater extraction be selected in consultation with a qualified geotechnical engineer and specialized contractor considering the space requirements, the cost, the depth to bedrock, soil conditions, and availability of materials.

Regardless of the type of engineered groundwater control technique selected, as a risk management measure and to confirm the effectiveness of groundwater control techniques, the following groundwater monitoring activities are recommended:

- Installation of monitoring wells along the boundary of the proposed development. The exact number of monitoring wells is to be determined on the final excavation configuration, however, based on the currently available information, it is estimated that approximately nine monitoring wells (minimum) would be required.
- Collection of groundwater samples daily for three consecutive days from monitoring wells installed at the property boundary before the initiation of groundwater taking for VOCs to establish the baseline pre-construction concentrations and groundwater levels.
- Collection of groundwater samples and groundwater levels from monitoring wells installed at the property boundary for the analysis of VOCs twice weekly for the duration of groundwater-taking activities.

In the event of a decreasing trend in groundwater levels from the baseline static groundwater levels and/or an increasing trend in the concentration of contaminants of concern (PHCs and VOCs), it is suggested that immediate corrective action (cease all groundwater taking activities) be undertaken until groundwater levels and concentrations of contaminants (PHCs and VOCs) meet the average pre-construction baseline levels.

Englobe's geotechnical investigation completed in 2023 stated " *Given that the founding depth of the proposed foundations will extend up to approximately 12 mbgs, consideration should be given to designing the building basement as a fully waterproof 'bath-tub' design (without external perimeter drains) to avoid potential adverse impacts due to moisture movements in the immediate areas around the proposed building footprint*", it should be noted that these adverse impacts could include the potential movement of VOCs in groundwater to the underground levels after construction and consideration of a bath-tub' design would limit movement of VOCs in groundwater after construction.

8 KEY FINDINGS AND RECOMMENDATIONS

Based on the information and analysis presented in the preceding Sections, the following conclusions and recommendations are provided:

- Dewatering volumes presented in this report are based on the assumed excavation dimensions and construction methods, duration, sequence, and schedule during the project design stage before the issue of bid-ready design and specifications. Therefore, changes in construction methods and duration, excavation dimension, and construction sequence may require recalculation of dewatering rates before construction.
- Based on the information available at the time of preparation of this report, estimates of total daily groundwater takings from the planned excavation associated with the proposed building are approximately 1,062 m³/day or 1,061,738 L/day. Groundwater taking estimates are based on the assumed excavation dimensions, construction sequencing, and methodology, therefore should there be changes in these items, revised groundwater taking volumes will be required. It is the dewatering contractor's responsibility to determine the type and extent of the dewatering system required.

- Based on the estimated daily groundwater-taking volumes, a Category III PTTW will be required. This report contains most of the information required for a Category III PTTW technical study report and this report can be transformed into a Category III PTTW technical study report with additional figures showing the location of nearby water wells and hydrologic features, impact assessment evaluation with respect to water wells, surface water features, and soil settlements, and recommendations for monitoring and trigger levels.
- Should significant water-bearing zones be encountered during excavation, Englobe recommends that supplementary hydraulic conductivity testing of the newly encountered water-bearing permeable materials be completed to update the groundwater inflow estimates presented in this Report. Groundwater dewatering estimates presented in this Report do not account for artesian conditions, potential hydraulic uplift, and associated aquifer depressurization.
- Englobe’s 2023 Phase II ESA identified PHCs and VOCs as the primary contaminants of concern in groundwater at the Site. The exceedances (i.e., contaminant concentrations exceeding the applicable site condition standard) of PHCs in 2023 were limited to groundwater samples collected from MW21-02 and MW23-02. The exceedances of chlorinated VOCs were identified in groundwater samples collected from all monitoring wells located onsite (i.e., MW21-01, MW21-02, MW21-03, MW23-01, MW23-02, MW23-03, and MW23-04). The detected concentrations of tetrachloroethylene in 2023 groundwater samples ranged from 1,400 µg/L (MW23-02) to 2.4 µg/L (MW21-03). The daughter products of tetrachloroethylene such as trichloroethylene and vinyl chloride also exceeded the applicable site condition standards in groundwater samples from the majority of the monitoring wells onsite. It should be noted that the majority of chlorinated VOC contaminant mass in groundwater would be situated within the footprint of proposed underground garages associated with the planned development onsite.
- In our opinion, it is reasonable to expect that chlorinated VOC vapours will migrate from groundwater to excavations associated with construction activities. Englobe recommends that a Project-Specific Health and Safety Plan (HASP) be required for the construction work. The development of a HASP is typically the responsibility of the contractor. Englobe recommends that the contractor addresses the occurrence of these chlorinated VOCs in groundwater in the HASP by way of developing task-appropriate personal protective measures and establishing real-time vapour monitoring, trigger levels, and associated mitigation measures.
- Based on the groundwater analytical results, it is anticipated that treatment of dewatering effluent will be required to reduce the concentrations of the various chlorinated VOCs to below the applicable discharge limits before discharge to the municipal sewer system. It is recommended that the contractor retain the services of a specialized dewatering water treatment contractor to supply, maintain, and monitor a suitable water treatment system operated under Environmental Compliance Approval. The construction contractor is solely responsible for obtaining a permit from the City of Ottawa for the discharge of water to the sanitary or storm sewer. Englobe recommends that a project-specific groundwater management plan be required for the construction work. It should be noted that the temporary storage of extracted groundwater on-site may be required depending on the capacity of the treatment system and local sewer system. It is also recommended that the contractor develop a spill management and control plan to implement during construction, to limit the potential for introduction of groundwater contamination from spills related to construction activities.
- During the construction, the hydraulic gradients between the planned excavation area within the Site and surrounding properties are expected to change given the lowering of the groundwater table with groundwater extraction and resulting in the formation of a hydraulic sink with faster contaminant travel times. Further, the potential presence of man-made preferential pathways and interconnected bedrock fracture pathways within the Site and surrounding area could accelerate the movement of groundwater. Thus, based on this assessment and estimated radius of influence of groundwater dewatering ranging from 40 m (average case scenario) to 171 m (worst case scenario), the potential for the mobilization of chlorinated VOCs as a result of groundwater dewatering could not be ruled out during the construction. Englobe recommends that the appropriate engineered groundwater control systems to minimize groundwater extraction be selected in

consultation with a qualified geotechnical engineer and specialized contractor considering the space requirements, the cost, the depth to bedrock, soil conditions, and availability of materials. Furthermore, it is recommended that the excavation and dewatering designs for this project focus on providing watertight shoring in order to minimize the groundwater into the excavation. Regardless of the type of engineered groundwater control technique selected, as a risk management measure and to confirm the effectiveness of groundwater control techniques, the following groundwater monitoring activities are recommended:

- Installation of monitoring wells along the boundary of the proposed development. The exact number of monitoring wells is to be determined on the final excavation configuration, however, based on the currently available information, it is estimated that approximately nine monitoring wells (minimum) would be required.
- Collection of groundwater samples daily for three consecutive days from monitoring wells installed at the property boundary before the initiation of groundwater taking for VOCs to establish the baseline pre-construction concentrations and groundwater levels.
- Collection of groundwater samples and groundwater levels from monitoring wells installed at the property boundary for the analysis of VOCs twice weekly for the duration of groundwater-taking activities.

In the event of a decreasing trend in groundwater levels from the baseline static groundwater levels and/or an increasing trend in the concentration of contaminants of concern (PHCs and VOCs), it is suggested that immediate corrective action (cease all groundwater taking activities) be undertaken until groundwater levels and concentrations of contaminants (PHCs and VOCs) meet the average pre-construction baseline levels.

- Englobe’s geotechnical investigation completed in 2023 stated” Given that the founding depth of the proposed foundations will extend up to approximately 12 mbgs, consideration should be given to designing the building basement as a fully waterproof ‘bath-tub’ design (without external perimeter drains) to avoid potential adverse impacts due to moisture movements in the immediate areas around the proposed building footprint”, it should be noted that these adverse impacts could include the potential movement of VOCs in groundwater to the underground levels after construction and consideration of a bath-tub’ design would limit movement of VOCs in groundwater after construction.
- Groundwater quality is variable over time, the municipal sewer use program may require supplemental groundwater sampling results at the time of sewer use permit application. The municipal sewer use Program may also require an assessment of chemical parameters not tested in this assessment.

9 LIMITATIONS

This report (hereinafter, the “Report”) was prepared by *Englobe Corp.* (herein the “Company”) and is provided for the sole exclusive use and benefit of *Churchill Properties Inc.* (the “Client”). Ownership in and copyright for the contents of the Report belong to the Company.

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This Report should be considered in its entirety; selecting specific portions of the Report may result in the misinterpretation of the content.

The work performed by the Company was carried out in accordance with the terms and conditions specified in the Professional Services Agreement between the Company and the Client, in accordance with currently accepted engineering standards and practices and in a manner consistent with the level of skill, care and competence ordinarily exercised by members of the same profession currently practicing under similar conditions and like circumstances in the same jurisdiction in which the services were provided. Standards, guidelines, and practices may change over time; those which were applied to produce this Report may be obsolete or unacceptable at a later date.

The findings, recommendations, suggestions, or opinions expressed in this Report reflect the Company’s best professional judgement based on observations and/or information reasonably available at the time the work was performed, as appropriate for the scope, work schedule and budgetary constraints established by the Client. No other warranty or representation, expressed or implied, is included in this Report including, but not limited to, that the Report deals with all issues potentially applicable to the site and/or that the Report deals with any and all of the important features of the Site, except as expressly provided in the scope of work.

This report has been prepared for the specific site, development, building, design or building assessment objectives and/or purposes that were described to the Company by the Client. The applicability and reliability of the content of this Report, subject to the limitations provided herein, are only valid to the extent that there has been no material alteration or variation thereto, and the Company expressly disclaims any obligation to update the Report. However, the Company reserves the right to amend or supplement this Report based on additional information, documentation or evidence made available to it.

The Company makes no representation concerning the legal significance of its findings, nor as to the present or future value of the property, or its fitness for a particular purpose and hereby disclaims any responsibility or liability for consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

Since the passage of time, natural occurrences, and direct or indirect human intervention may affect the views, conclusions, and recommendations (if any) provided in the Report, it is intended for immediate use.

This Statement of Limitations forms an integral part of the Report.

In preparing this Report, the Company has relied in good faith on information provided by others and has assumed that such information is factual, accurate, and complete. The Company accepts no responsibility or liability for any deficiency, misstatement, or inaccuracy in this Report resulting from the information provided, concealed, or not fully disclosed by those individuals.

The conclusions presented herein are based on information gathered from a limited historical review of readily available geological, historical, and regulatory information and a field inspection program. Sampling and analysis of soil, groundwater, or any other material was not carried out as part of this assessment. Consequently, the presence and/or

extent of any adverse environmental impact cannot be verified. The potential for environmental liability and/or environmental impact is an opinion that has been arrived at within the scope of this assessment.

Unless otherwise noted, the information contained herein in no way reflects on environmental aspects of either the site or the subsurface conditions.

The assessment should not be considered a comprehensive audit that covers and eliminates all present, past and future risks. The information presented in this Report is based on data collected during the completion of the monitoring conducted. The overall site/building/subsurface/groundwater conditions were extrapolated based on information collected at specific sampling locations. Professional judgement was exercised in gathering and analyzing data; however, no monitoring method can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Consequently, the actual site/building/subsurface/groundwater conditions between the sampling points may vary. In addition, analysis has been carried out only for the chemical and physical parameters identified, and it should not be inferred that other chemical species or physical conditions are not present.

It is recommended practice that the Company be retained during subsequent phases of the project, to confirm that the conditions throughout the site do not deviate materially from those encountered throughout the sampling program.

Any description of the site and its physical setting documented in this Report is presented for informational purposes only, to provide the reader with a better understanding of the site and scope of work. Any topographic benchmarks and elevations are primarily to establish relative elevation differences between sampling locations and should not be used for other purposes such as grading, excavation, planning, development, or similar purposes.

Any results from the laboratory or other sub-Contractors reported herein have been carried out by others, and the Company cannot warrant their accuracy.

This Report is based on the assumption that the design features relevant to our work will be in accordance with applicable codes, standards and guidelines of practice and constructed substantially in accordance with the Report. If there are any changes to the site development features, or there is any additional information that was not otherwise available at the time the work was performed, the Company should be retained to review the implications thereof to the contents of this Report. The design recommendations expressed in this Report are applicable only to the project described therein

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Appendix A

Figures




eNGLOBE



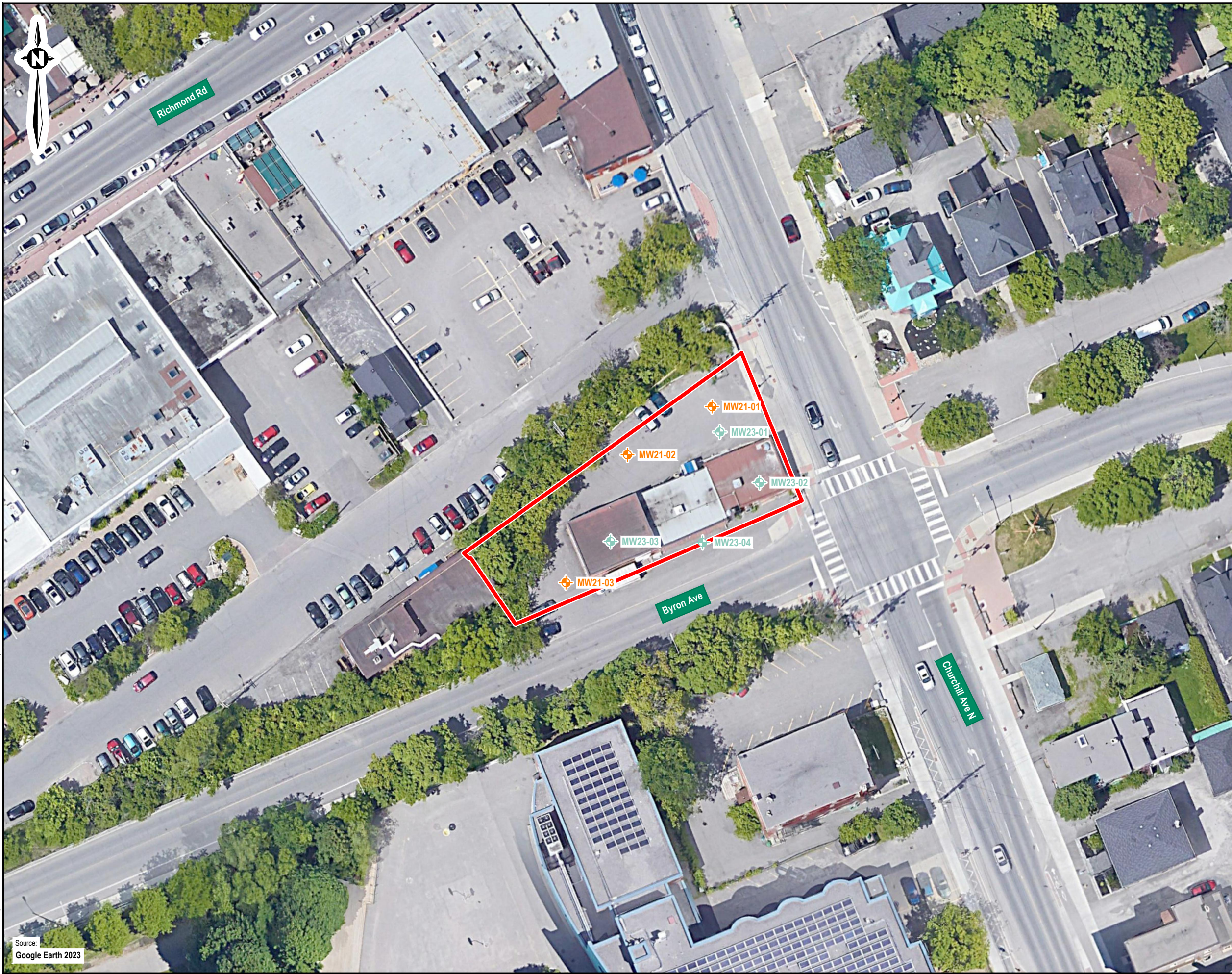
Note

1. This drawing shall be read in conjunction with the associated technical report.




| | | | |
|----------|------------|----------|----------|
| D | 10/05/2023 | Original | S.S. |
| Revision | Date | Issue | Approval |

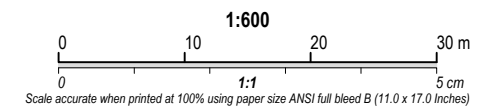
| | | | |
|---|---|---|------------------------------------|
| Client Churchill Properties Inc. | | Site 424 Churchill Avenue North, Ottawa, ON | |
|  | Report Title Hydrogeological Assessment | Designed By C.O. | Date October 2023 |
| | Drawing Title Site Location Map | Drawn By K.M. | Project No. 02103035.000 |
| | | Approved By S.S. | Figure No. 1 |
| | | Scale As shown | |

Drawing: 1 site location.dwg Folder: C:\DST\02103035.000 424 Churchill\2023 Phase II ESA\DWGs Thursday, October 05, 2023 @ 10:08 by Kris Morin



Note
 1. This drawing shall be read in conjunction with the associated technical report.

Legend
 Property Boundary
 Location of Monitoring Well (Englobe, 2021)
 Location of Monitoring Well (Englobe, 2023)



| | | | |
|----------|------------|----------|----------|
| D | 10/05/2023 | Original | S.S. |
| Revision | Date | Issue | Approval |

Client
Churchill Properties Inc.

Site
424 Churchill Avenue North, Ottawa, ON

Report Title
Hydrogeological Assessment

Drawing Title
Site Plan

| | | | |
|-------------|-------------|-------|-----------------|
| Designed By | C.O. | Scale | As shown |
|-------------|-------------|-------|-----------------|

| | | | |
|----------|-------------|------|---------------------|
| Drawn By | K.M. | Date | October 2023 |
|----------|-------------|------|---------------------|

| | | | |
|-------------|-------------|-------------|---------------------|
| Approved By | S.S. | Project No. | 02103035.000 |
|-------------|-------------|-------------|---------------------|

Figure No. **2**

Drawing: 3 APEC.dwg Folder: C:\DST\02103035.000 424 Churchill\02023 Phase I\ESA\DWG Source: Google Earth 2023
 Thursday, October 05, 2023 @ 10:09 by Kris Mann

Appendix B

Borehole and Monitoring Well Logs



eNGLOBE

LIST OF SYMBOLS AND DEFINITIONS FOR GEOTECHNICAL SAMPLING AND COMMON LITHOLOGIES

The following is a reference sheet for commonly used symbols and definitions within this report and in any figures or appendices, including borehole logs and test results. Symbols and definitions conform to the standard proposed by the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) wherever possible. Discrepancies may exist when comparing to third-party results using the Unified Soil Classification System (USCS).

PART A – SOILS

Standard Penetration Test (SPT) 'N'

The number of blows required to drive a 50-mm (2 in) split barrel sampler 300 mm (12 in). The standard hammer has a mass of 63.5 kg (140 lbs) and is dropped vertically from a height of 760 mm (30 in). Additional information can be found in ASTM D1586-11 and in §4.5.2 of the CFEM 4th Ed.

For penetration less than 300 mm, 'N' is recorded with the penetration that was achieved.

Non-Cohesive Soils

The relative density of non-cohesive soils relates empirically to SPT 'N' as follows:

| Relative Density | 'N' |
|------------------|---------|
| Very Loose | 0 – 4 |
| Loose | 4 – 10 |
| Compact | 10 – 30 |
| Dense | 30 – 50 |
| Very Dense | > 50 |

Cohesive Soils

The consistency and undrained shear strength of cohesive soils relates empirically to SPT 'N' as follows:

| Consistency | Undrained Shear Strength (kPa) | 'N' |
|-------------|--------------------------------|---------|
| Very Soft | < 12 | 0 – 2 |
| Soft | 12 – 25 | 2 – 4 |
| Firm | 25 – 50 | 4 – 8 |
| Stiff | 50 – 100 | 8 – 15 |
| Very Stiff | 100 – 200 | 15 – 30 |
| Hard | > 200 | > 30 |

PART B – ROCK

The following parameters are used to describe core recovery and to infer the quality of a rockmass.

Total Core Recovery, TCR (%)

The total length of solid drill core recovered, regardless of the quality or length of the pieces, taken as a percentage of the length of the core run.

Solid Core Recovery, SCR (%)

The total length of solid, full-diameter drill core recovered, taken as a percentage of the length of the core run.

Rock Quality Designation, RQD (%)

The sum of the lengths of solid drill core greater than 100 mm long, taken as a percentage of the length of the core run. RQD is commonly used to infer the quality of the rockmass, as follows:

| Rockmass Quality | RQD (%) |
|------------------|---------|
| Very Poor | < 25 |
| Poor | 25 – 50 |
| Fair | 50 – 75 |
| Good | 75 – 90 |
| Excellent | > 90 |

Weathering

The terminology used to describe the degree of weathering for recovered rock core is defined as follows, as suggested by the *Geological Society of London*:

Completely weathered: All rock material is decomposed and/or disintegrated to soil. The original mass structure is largely intact.

Highly weathered: More than half the rock material is decomposed and/or disintegrated to soil. Fresh or discolored rock is present either as a discontinuous framework or as core stone.

Moderately weathered: Less than half the rock material is decomposed and/or disintegrates to soil. Fresh or discolored rock is present either as a continuous framework or as core stone.

Slightly weathered: Discoloration indicates weathering of rock material and discontinuity of surfaces. All the rock material may be discolored by weathering and may be somewhat weaker than its fresh condition.

Fresh: No visible signs of weathering.

PART C – SAMPLING SYMBOLS

| Symbol | Description |
|--------|--|
| SS | Split spoon sample |
| TW | Thin-walled (Shelby Tube) sample |
| PH | Sampler advanced by hydraulic pressure |
| WH | Sampler advanced by static weight |
| SC | Soil core |

PART D – IN-SITU AND LAB TESTING

SOIL NAMING CONVENTIONS

Particle sizes are described as follows:

| Particle Size Descriptor | Size (mm) | |
|--------------------------|---------------|---------------|
| Boulder | > 300 | |
| Cobble | 75 – 300 | |
| Gravel | Coarse | 19 – 75 |
| | Fine | 4.75 – 19 |
| Sand | Coarse | 2.0 – 4.75 |
| | Medium | 0.425 – 2.0 |
| | Fine | 0.075 – 0.425 |
| Silt | 0.002 – 0.075 | |
| Clay | < 0.002 | |

The principle constituent of a soil is written in uppercase. The minor constituents of a soil are written according to the following convention:

| Descriptive Term | Proportion of Soil (%) |
|------------------|------------------------|
| Trace | 1 – 10 |
| Some | 10 – 20 |
| (ey) or (y) | 20 – 35 |
| And | 35 – 50 |

Ex.: A soil comprising 65% Silt, 21% Sand and 14% Clay would be described as a: Sandy SILT, Some Clay

LOG OF BOREHOLE MW23-01

DST REF. No.: 02103035.001
 CLIENT: Churchill Properties Inc.
 PROJECT: Geotechnical Investigation
 LOCATION: 424 Churchill Ave. N, Ottawa
 SURFACE ELEV.: 75.27 metres

Drilling Data
 METHOD: Massenza MI3 Track Mount - HSA
 START DATE: 07/11/2023
 COMPLETION DATE: 07/11/2023
 COORDINATES: 5026692.732 m N, 441016.497 m E

*Elevations are not geodetic, for reference within this report only.

| DEPTH (m) | ELEV. (m) | Water Data | % MOISTURE | | | Symbol | MATERIAL DESCRIPTION | SAMPLE # | SAMPLE TYPE | N _v VALUE / RECOVERY % | Su (kPa) | | CHVC 1 (ppm) | CHVC 2 (ppm) | REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL |
|-----------|-----------|------------|----------------|----|----------------|--------|--|----------|-------------|-----------------------------------|------------|-------------------------------|--------------|---|---|
| | | | W _p | W | W _i | | | | | | VANE | PP* | | | |
| | | | 20 | 40 | 60 | 80 | | | | 40 | 80 | 120 | 160 | | |
| | | | | | | | | | | SPT (N) <input type="checkbox"/> | Blows/0.3m | DCPT <input type="checkbox"/> | | | |
| 75 | | | | | | | APPROX. 100mm THICK ASPHALT | GS1 | 43 | | | | | | |
| | | | | | | | FILL: silty sand, some gravel, brown, damp | SS1 | 73 | 100% | | | | | |
| | | | | | | | SILTY SAND: trace to some gravel, brown, damp, (very dense) | | 83% | | | | | | |
| 74 | | | | | | | Auger refusal at 0.9 mbgs, continue with rock coring | RC1 | | 50% | | | | RQD = 53% SCR = 72% TCR = 100% FFI = 4/8/1 | |
| | | | | | | | LIMESTONE: fair quality, grey, weathered | | | | | | | | |
| | | | | | | | Becoming good quality | RC2 | | 100% | | | | RQD = 78% SCR = 98% TCR = 100% FFI = 8/2/2/5/1 | |
| 73 | | | | | | | | | | | | | | | |
| | | | | | | | | RC3 | | 96% | | | | RQD = 48% SCR = 94% TCR = 96% FFI = 8/1/3/5/13 | |
| 72 | | | | | | | | | | | | | | | |
| | | | | | | | | RC4 | | 100% | | | | RQD = 86% SCR = 93% TCR = 100% FFI = 8/3/0/2/2 | |
| 71 | | | | | | | | | | | | | | | |
| | | | | | | | | RC5 | | 93% | | | | RQD = 82% SCR = 92% TCR = 93% FFI = 3/0/2/1/9 | |
| 70 | | | | | | | | | | | | | | | |
| | | | | | | | | RC6 | | 87% | | | | RQD = 69% SCR = 87% TCR = 87% FFI = 8/3/1/4/3 | |
| 69 | | | | | | | | | | | | | | | |
| | | | | | | | | RC7 | | 98% | | | | RQD = 71% SCR = 88% TCR = 98% FFI = 12/3/5/5/3 | |
| 68 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 65 | | | | | | | Becoming fair quality | | | | | | | | |
| | | | | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | | | | |

BOREHOLE (THUNDER BAY) 02103035.000-424 CHURCHILL AVE N.GPJ DATA TEMPLATE.GDT 23-09-01



ENGLOBE
 101-2713 LANCASTER ROAD
 OTTAWA, ON, K1B 5R6
 PH: 1-877-300-4800
 FX: 1-888-979-6772
 Web: www.englobecorp.com

SAMPLE TYPE LEGEND

- Auger Sample
- Split Spoon Sample
- Bulk Sample
- Rock Core
- Core Sample
- Shelby Tube

WELL LEGEND

- Bentonite
- Sand
- Screen

³ Numbers refers to Sensitivity
 PP: Pocket Penetrometer
 CHVC: Combustible Headspace Vapor Concentration
 NFP: No Further Penetration

LOG OF BOREHOLE MW23-01

DST REF. No.: 02103035.001
 CLIENT: Churchill Properties Inc.
 PROJECT: Geotechnical Investigation
 LOCATION: 424 Churchill Ave. N, Ottawa
 SURFACE ELEV.: 75.27 metres

Drilling Data
 METHOD: Massenza MI3 Track Mount - HSA
 START DATE: 07/11/2023
 COMPLETION DATE: 07/11/2023
 COORDINATES: 5026692.732 m N, 441016.497 m E

*Elevations are not geodetic, for reference within this report only.

| DEPTH (m) | ELEV. (m) | Water Data | % MOISTURE | | | Symbol | MATERIAL DESCRIPTION | SAMPLE # | SAMPLE TYPE | N ^o VALUE / RECOVERY % | Su (kPa) | | | | CHVC 1 (ppm) | CHVC 2 (ppm) | REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL |
|-----------|-----------|------------|----------------|---|----------------|--------|----------------------|----------|-------------|-----------------------------------|----------|-----|---------|------|--------------|--------------|---|
| | | | W _p | W | W _i | | | | | | VANE | PP* | SPT (N) | DCPT | | | |
| 63 | | | | | | | | RC8 | 100% | | | | | | | | RQD = 89% SCR = 94% TCR = 100% FFI = 0/0/0/4/1 |
| 62 | | | | | | | | RC9 | 100% | | | | | | | | RQD = 72% SCR = 85% TCR = 100% FFI = 1/6/3/2/1 |
| 61 | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | RC10 | 100% | | | | | | | | RQD = 100% SCR = 100% TCR = 100% FFI = 0/0/1/2/2 |
| 59 | | | | | | | | RC11 | 100% | | | | | | | | RQD = 72% SCR = 81% TCR = 100% FFI = 3/4/6 |
| 58 | | | | | | | | | | | | | | | | | End of borehole at approximately 16.7 mbgs (~Elev. 58.7 masl) in limestone. |
| 57 | | | | | | | | | | | | | | | | | Water level measured in monitoring well was approximately 5.9 mbgs (~Elev. 69.4 masl) on August 14, 2023. |
| 56 | | | | | | | | | | | | | | | | | |
| 55 | | | | | | | | | | | | | | | | | |
| 54 | | | | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | | | | |
| 52 | | | | | | | | | | | | | | | | | |

BOREHOLE (THUNDER BAY) 02103035.000-424 CHURCHILL AVE N.GPJ DATA TEMPLATE.GDT 23-09-01



ENGLOBE
 101-2713 LANCASTER ROAD
 OTTAWA, ON, K1B 5R6
 PH: 1-877-300-4800
 FX: 1-888-979-6772
 Web: www.englobecorp.com

SAMPLE TYPE LEGEND

| | | | |
|--|--------------------|--|-------------|
| | Auger Sample | | Rock Core |
| | Split Spoon Sample | | Core Sample |
| | Bulk Sample | | Shelby Tube |

WELL LEGEND

| | |
|--|-----------|
| | Bentonite |
| | Sand |
| | Screen |

³ Numbers refers to Sensitivity
 PP: Pocket Penetrometer
 CHVC: Combustible Headspace Vapor Concentration
 NFP: No Further Penetration

LOG OF BOREHOLE MW23-02

DST REF. No.: 02103035.001
 CLIENT: Churchill Properties Inc.
 PROJECT: Geotechnical Investigation
 LOCATION: 424 Churchill Ave. N, Ottawa
 SURFACE ELEV.: 73.57 metres

Drilling Data
 METHOD: Hilti Portable Core Drill - Direct Push
 START DATE: 07/19/2023
 COMPLETION DATE: 07/19/2023
 COORDINATES: 5026684.758 m N, 441023.163 m E

*Elevations are not geodetic, for reference within this report only.

| DEPTH (m) | ELEV. (m) | Water Data | % MOISTURE | | | Symbol | MATERIAL DESCRIPTION | SAMPLE # | SAMPLE TYPE | % VALUE / RECOVERY % | Su (kPa) | | | | CHVC 1 (ppm) | CHVC 2 (ppm) | REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL |
|-----------|-----------|------------|----------------|----|----------------|--------|--|----------|-------------|----------------------|----------|-----|---------|------|--------------|--------------|---|
| | | | W _p | W | W _i | | | | | | VANE | PP* | SPT (N) | DCPT | | | |
| | | | 20 | 40 | 60 | 80 | | | | 40 | 80 | 120 | 160 | | | | |
| | | | | | | | APPROX. 25mm THICK CONCRETE SLAB | AST | 100% | | | | | | | | |
| 73 | | | | | | | FILL: sand and gravel, loose, brown, damp Auger refusal at 0.1 mbgs, continue with rock coring | | | | | | | | | | |
| 72 | | | | | | | BEDROCK Inferred, no recovery due to drilling method | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | |
| 64 | | | | | | | End of borehole at approximately 9.2mbgs (~Elev. 64.4 masl) in inferred bedrock. | | | | | | | | | | |
| 63 | | | | | | | Water level measured in monitoring well was approximately 3.9mbgs (~Elev. 69.8masl) on August 14, 2023. | | | | | | | | | | |
| 62 | | | | | | | | | | | | | | | | | |

BOREHOLE (THUNDER BAY) 02103035.000-424 CHURCHILL AVE N.GPJ DATA TEMPLATE.GDT 23-09-01



ENLOBE
 101-2713 LANCASTER ROAD
 OTTAWA, ON, K1B 5R6
 PH: 1-877-300-4800
 FX: 1-888-979-6772
 Web: www.englobecorp.com

SAMPLE TYPE LEGEND

- Auger Sample
- Split Spoon Sample
- Bulk Sample
- Rock Core
- Core Sample
- Shelby Tube

WELL LEGEND

- Bentonite
- Sand
- Screen

³ Numbers refers to Sensitivity
 PP: Pocket Penetrometer
 CHVC: Combustible Headspace Vapor Concentration
 NFP: No Further Penetration

LOG OF BOREHOLE MW23-03

DST REF. No.: 02103035.001
 CLIENT: Churchill Properties Inc.
 PROJECT: Geotechnical Investigation
 LOCATION: 424 Churchill Ave. N, Ottawa
 SURFACE ELEV.: 75.92 metres

Drilling Data
 METHOD: Hilti Portable Core Drill - Direct Push
 START DATE: 07/20/2023
 COMPLETION DATE: 07/20/2023
 COORDINATES: 5026673.617 m N, 440996.601 m E

*Elevations are not geodetic, for reference within this report only.

| DEPTH (m) | ELEV. (m) | Water Data | % MOISTURE | | | Symbol | MATERIAL DESCRIPTION | SAMPLE # | SAMPLE TYPE | N ^o VALUE / RECOVERY % | Su (kPa) | | | | CHVC 1 (ppm) | CHVC 2 (ppm) | REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL |
|-----------|-----------|------------|----------------|---|----------------|---|---|----------|-------------|-----------------------------------|----------|-----|-----------------------|------|--------------|--------------|---|
| | | | W _p | W | W _i | | | | | | VANE | PP* | SPT (N) Blows/0.3m | DCPT | | | |
| | | | | | | | APPROX. 25mm THICK CONCRETE SLAB | SS1 | 100% | | | | | | | | |
| 1.0 | 75 | | | | | FILL: sand and gravel, grey, damp SILTY SAND: brown, damp, (dense to very dense) Auger refusal at 0.8 mbgs, continue with rock coring | | | | | | | | | | | |
| 2.0 | 74 | | | | | BEDROCK Inferred, no recovery due to drilling method | | | | | | | | | | | |
| 3.0 | 73 | | | | | | | | | | | | | | | | |
| 4.0 | 72 | | | | | | | | | | | | | | | | |
| 5.0 | 71 | | | | | | | | | | | | | | | | |
| 6.0 | 70 | | | | | | | | | | | | | | | | |
| 7.0 | 69 | | | | | | | | | | | | | | | | |
| 8.0 | 68 | | | | | | | | | | | | | | | | |
| 9.0 | 67 | | | | | | | | | | | | | | | | |
| 10.0 | 66 | | | | | | End of borehole at approximately 9.2mbgs (~Elev. 66.7 masl) in inferred bedrock. | | | | | | | | | | |
| | | | | | | | Water level measured in monitoring well was approximately 6.2mbgs (~Elev. 69.7masl) on August 14, 2023. | | | | | | | | | | |
| 11.0 | 65 | | | | | | | | | | | | | | | | |
| | 64 | | | | | | | | | | | | | | | | |

BOREHOLE (THUNDER BAY) 02103035.000-424 CHURCHILL AVE N.GPJ DATA TEMPLATE.GDT 23-09-01



ENGLOBE
 101-2713 LANCASTER ROAD
 OTTAWA, ON, K1B 5R6
 PH: 1-877-300-4800
 FX: 1-888-979-6772
 Web: www.englobecorp.com

SAMPLE TYPE LEGEND

| | | | |
|--|--------------------|--|-------------|
| | Auger Sample | | Rock Core |
| | Split Spoon Sample | | Core Sample |
| | Bulk Sample | | Shelby Tube |

WELL LEGEND

| | |
|--|-----------|
| | Bentonite |
| | Sand |
| | Screen |

³ Numbers refers to Sensitivity
 PP: Pocket Penetrometer
 CHVC: Combustible Headspace Vapor Concentration
 NFP: No Further Penetration

LOG OF BOREHOLE MW23-04

DST REF. No.: 02103035.001
 CLIENT: Churchill Properties Inc.
 PROJECT: Geotechnical Investigation
 LOCATION: 424 Churchill Ave. N, Ottawa
 SURFACE ELEV.: 75.77 metres

Drilling Data
 METHOD: Massenza MI3 Track Mount - HSA
 START DATE: 07/12/2023
 COMPLETION DATE: 07/12/2023
 COORDINATES: 5026672.722 m N, 441014.891 m E

*Elevations are not geodetic, for reference within this report only.

| DEPTH (m) | ELEV. (m) | Water Data | % MOISTURE | | | Symbol | MATERIAL DESCRIPTION | SAMPLE # | SAMPLE TYPE | N ^o VALUE / RECOVERY % | Su (kPa) | | | | CHVC 1 (ppm) | CHVC 2 (ppm) | REMARKS & GRAINSIZE DISTRIBUTION (%) GR SA SI CL |
|-----------|-----------|------------|----------------|---|----------------|--|----------------------|----------|-------------|-----------------------------------|----------|-----|-----------------------|------|--------------|--------------|---|
| | | | W _p | W | W _i | | | | | | VANE | PP* | SPT (N) Blows/0.3m | DCPT | | | |
| 75 | | | | | | <p>APPROX. 100mm THICK ASPHALT</p> <p>FILL: sand, trace gravel, brown, damp - Auger refusal at 0.2 mbgs, continue with rock coring</p> <p>BEDROCK Inferred, no recovery due to drilling method</p> | SS1 | | 50% | | | | | | | | |
| 74 | | | | | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | | | | | |
| 67 | | | | | | <p>End of borehole at approximately 8.2mbgs (~Elev. 67.6 masl) in inferred bedrock.</p> <p>Water level measured in monitoring well was approximately 5.9mbgs (~Elev. 69.8masl) on August 14, 2023.</p> | | | | | | | | | | | |
| 66 | | | | | | | | | | | | | | | | | |
| 65 | | | | | | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | | | | | | |

BOREHOLE (THUNDER BAY) 02103035.000-424 CHURCHILL AVE N.GPJ DATA TEMPLATE.GDT 23-09-01



ENGLOBE
 101-2713 LANCASTER ROAD
 OTTAWA, ON, K1B 5R6
 PH: 1-877-300-4800
 FX: 1-888-979-6772
 Web: www.englobecorp.com

SAMPLE TYPE LEGEND

- Auger Sample
- Split Spoon Sample
- Bulk Sample
- Rock Core
- Core Sample
- Shelby Tube

WELL LEGEND

- Bentonite
- Sand
- Screen

³ Numbers refers to Sensitivity
 PP: Pocket Penetrometer
 CHVC: Combustable Headspace Vapor Concentration
 NFP: No Further Penetration

MW21-02

DST Project No. **02103035.000**

Client **GSI Group Cold Storage Ltd.**

Project **Preliminary Geotechnical Investigation**

Address **424 Churchill Avenue North, Ottawa, ON**

Date **April 21, 2021**

Method **Hollow Stem Auger & Wireline Diamond coring**

| Depth (m) | Elevation (m) | Water level (mREL) | Well construction | Depth (m) Elevation (m) | Symbol | Material Description | Sample # | Sample Type | 'N' Value/RQD % | CCGD / PID Reading | | Analysis | | | | | Remarks |
|-----------|---------------|--------------------|-------------------|-------------------------|--------|---|----------|-------------|-----------------|--------------------|-----|-----------------------------------|------|--------|------|----|---------|
| | | | | | | | | | | CCGD | PID | Submitted for laboratory analysis | | | | | |
| | | | | | | | | | | | | PAHs | PHCs | Metals | VOCs | pH | |
| 0 | | | | 0 | | ASPHALT - (120 mm thickness) | GS1 | | | | | | | | | | |
| 0.1 | | | | 0.1 | | FILL - Sand, some gravel, compact, brown, damp | | | | | | | | | | | |
| 0.5 | | | | 0.5 | | SANDY SILT - trace gravel, compact, brown, damp, | SS1 | 11 | 360 ppm | 1 ppm | | | | | | | |
| 1 | | | | 1 | | LIMESTONE - highly weathered and fractured, grey | SS2 | 50+ | 710 ppm | 3 ppm | | | | | | | |
| 1.4 | | | | 1.4 | | Auger refusal encountered at 1.4 mbgs | | | | | | | | | | | |
| 1.4 | | | | 1.4 | | LIMESTONE - poor quality based on RQD, slightly weathered, strong, medium to thickly bedded | RC1 | 43 | | | | | | | | | |
| 3.8 | | | | 3.8 | | - 0.1m thick shale bed | RC2 | 37 | | | | | | | | | |
| 4.5 | | | | 4.5 | | - fair quality based on RQD, fresh | RC3 | 68 | | | | | | | | | |
| 6.1 | | | | 6.1 | | - excellent quality based on RQD | RC4 | 93 | | | | | | | | | |
| 6.8 | | | | 6.8 | | | RC5 | 92 | | | | | | | | | |
| 9 | | | | 9 | | - fair quality based on RQD | RC6 | 50 | | | | | | | | | |
| 10.0 | | | | 10.0 | | End of Borehole at 10.0 m. | | | | | | | | | | | |

Groundwater level at 6.8 mbgs on April 29, 2021.

MW21-03

DST Project No. **02103035.000**
 Client **GSI Group Cold Storage Ltd.**
 Project **Preliminary Geotechnical Investigation**
 Address **424 Churchill Avenue North, Ottawa, ON**

Date **April 22, 2021**
 Method **Hollow Stem Auger & Pneumatic Drilling**

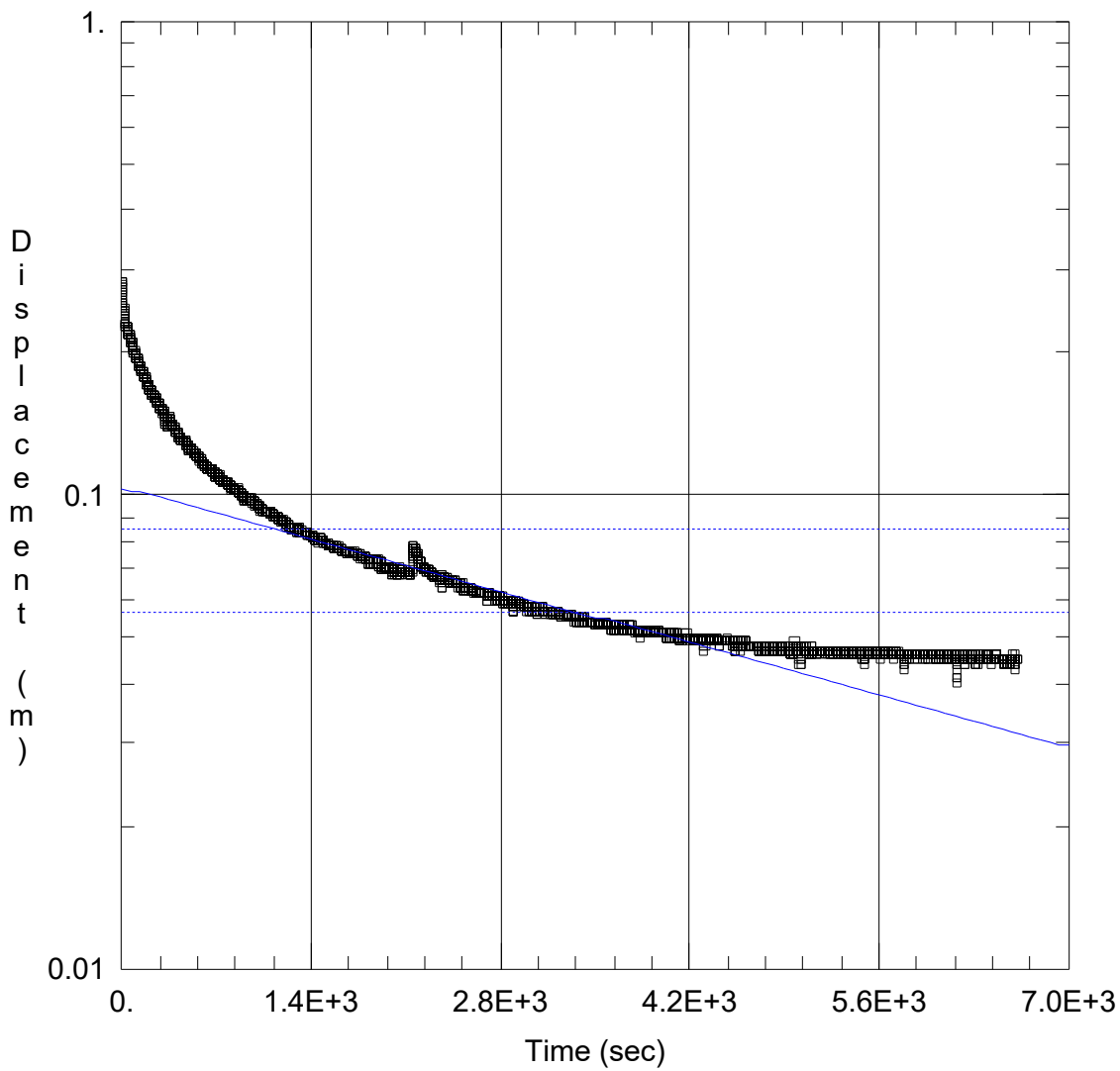
| Depth (m) | Elevation (m) | Water level (mREL) | Well construction | Depth (m) Elevation (m) | Symbol | Material Description | Sample # | Sample Type | 'N' Value/RQD % | CCGD / PID Reading | | Analysis | | | | | Remarks |
|----------------------------|---------------|--------------------|-------------------|----------------------------|--------|--|----------|-------------|-----------------|--------------------|------|-----------------------------------|--------|------|----|--|---------|
| | | | | | | | | | | CCGD | PID | Submitted for laboratory analysis | | | | | |
| | | | | | | | | | | | PAHs | PHCs | Metals | VOCs | pH | | |
| | | | | 0 | | ASPHALT - (140 mm thickness) | GS1 | | | | | | | | | | |
| | | | | 0.1 | | FILL - Silty sand, trace gravel, brown, compact, damp | | | | | | | | | | | |
| | | | | 0.3 | | SANDY SILT - trace gravel, brown, compact, damp | SS1 | 50+ | 5 ppm | 0 ppm | | ✓ | | ✓ | | | |
| | | | | 0.8 | | BEDROCK - Borehole advanced into bedrock using Tri-cone air drilling methods (bedrock type and quality could not be confirmed) | | | | | | | | | | | |
| 0.5 | | | | | | | | | | | | | | | | | |
| 1.0 | | | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | | | | |
| 4.5 | | | | | | | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | | | | | | |
| 6.5 | | | | | | | | | | | | | | | | | |
| 7.0 | | 6.9 | | | | | | | | | | | | | | | |
| 7.5 | | | | | | | | | | | | | | | | | |
| 8.0 | | | | | | | | | | | | | | | | | |
| 8.5 | | | | | | | | | | | | | | | | | |
| 9.0 | | | | | | | | | | | | | | | | | |
| 9.5 | | | | | | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | | | | | |
| 10.5 | | | | | | | | | | | | | | | | | |
| 11.0 | | | | | | | | | | | | | | | | | |
| 11.5 | | | | | | | | | | | | | | | | | |
| 12.0 | | | | | | | | | | | | | | | | | |
| 12.5 | | | | | | | | | | | | | | | | | |
| End of Borehole at 12.8 m. | | | | | | | | | | | | | | | | | |

Groundwater level at 6.9 mbgs on April 30, 2021.

Appendix C

Hydraulic Conductivity Estimate Results





FAILING HEAD

Data Set: C:\...\2. MW23-02 Slug test Wizard- Rising Head.aqt

Date: 10/19/23

Time: 16:39:34

PROJECT INFORMATION

Company: Englobe Corp.

Client: Churchill Properties Inc.

Project: 02103035

Location: 424 Churchill

Test Well: MW23-02

Test Date: August 17, 2023

AQUIFER DATA

Saturated Thickness: 14.08 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW23-2)

Initial Displacement: 0.283 m

Static Water Column Height: 4.88 m

Total Well Penetration Depth: 4.78 m

Screen Length: 3. m

Casing Radius: 0.021 m

Well Radius: 0.021 m

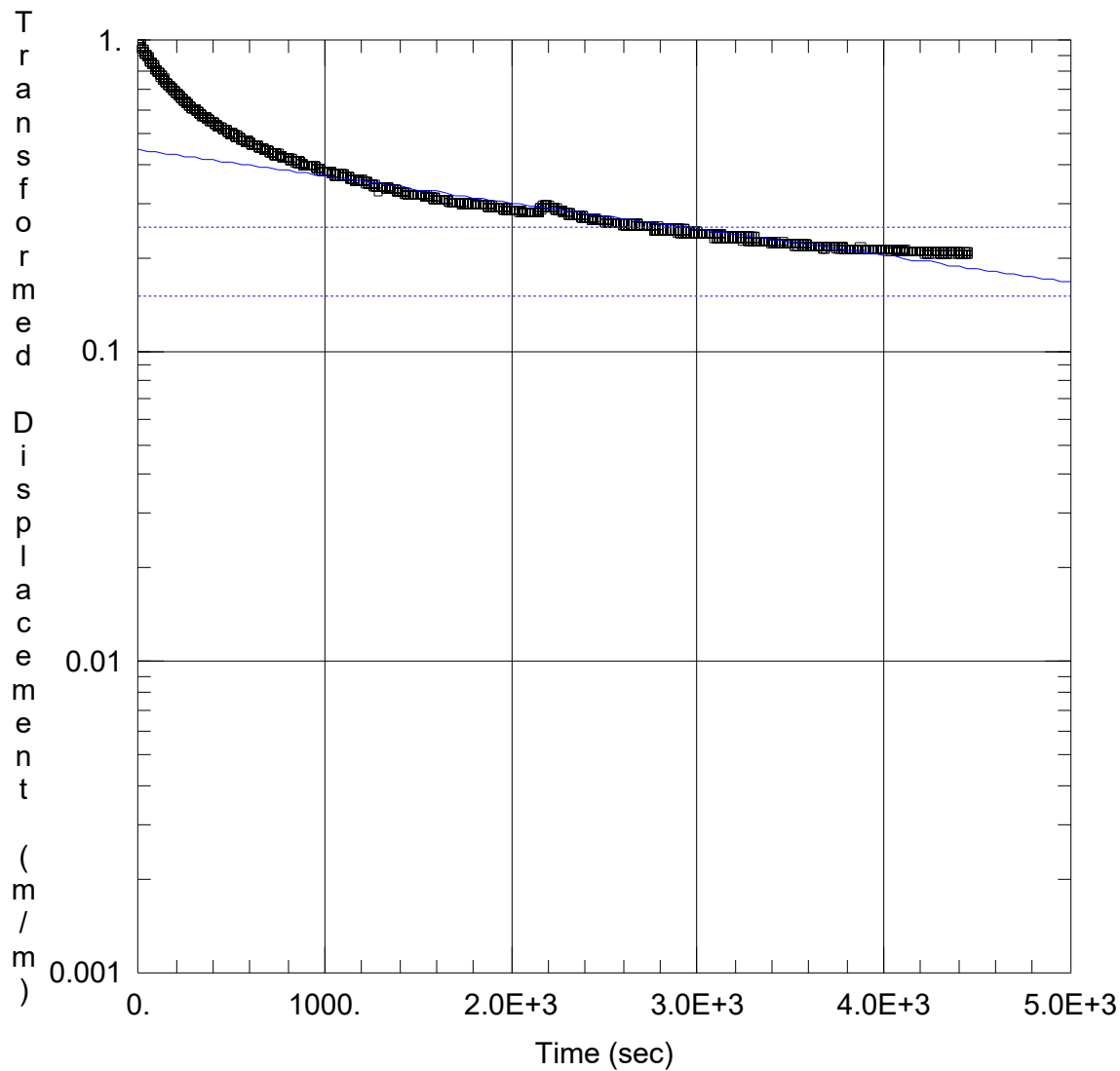
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

$K = 4.756E-8$ m/sec

$y_0 = 0.1037$ m



WELL TEST ANALYSIS

Data Set: C:\...\3. MW23-03 Slug test Wizard- Rising Head .jpg.aqt

Date: 10/19/23

Time: 16:42:23

PROJECT INFORMATION

Company: Englobe Corp.

Client: Churchill Properties Inc.

Project: 02103035

Location: 424 Churchill

Test Well: MW23-03

Test Date: August 17, 2023

AQUIFER DATA

Saturated Thickness: 11.74 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (MW23-03)

Initial Displacement: 0.21 m

Static Water Column Height: 2.54 m

Total Well Penetration Depth: 3.56 m

Screen Length: 3. m

Casing Radius: 0.021 m

Well Radius: 0.021 m

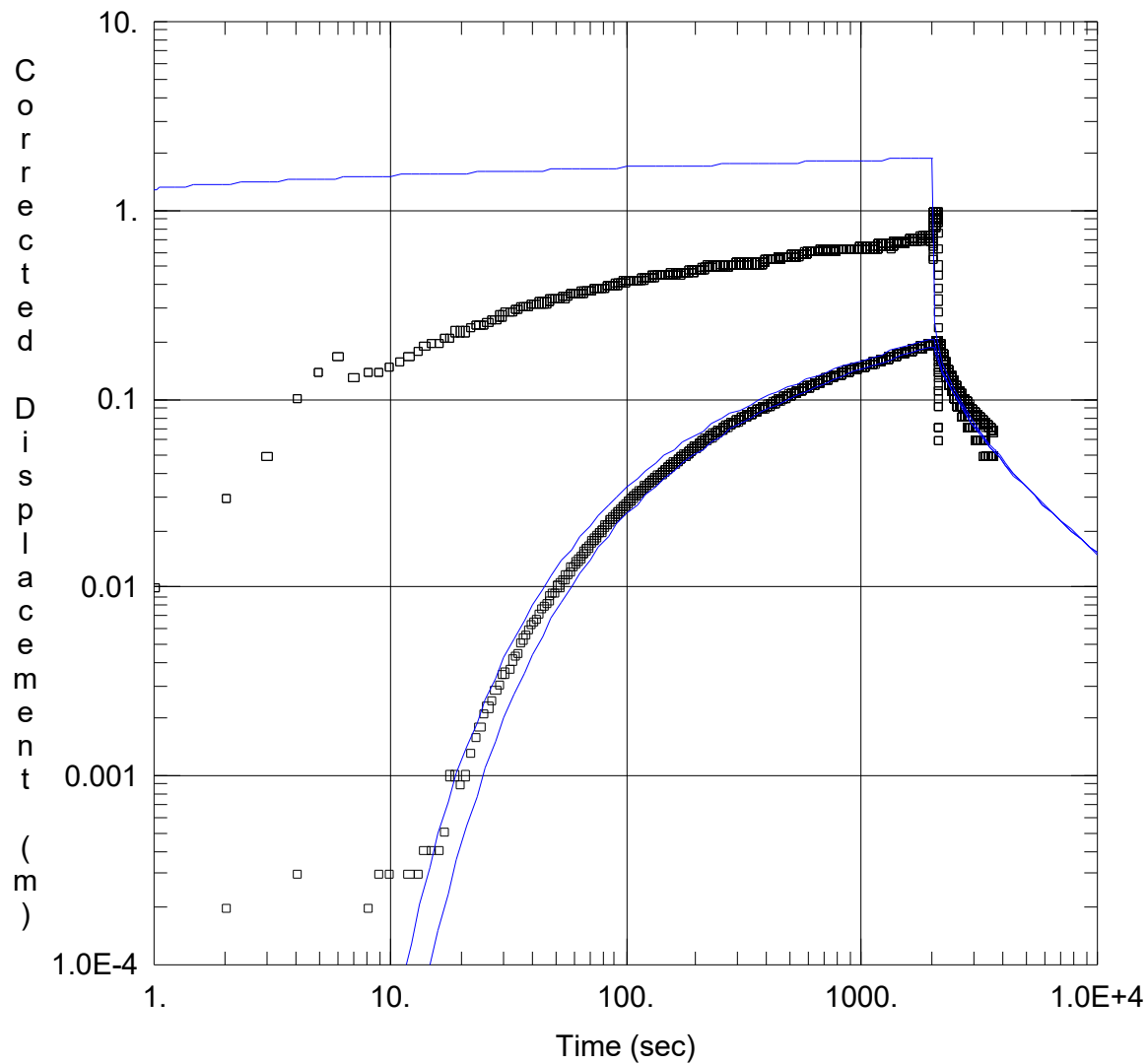
SOLUTION

Aquifer Model: Unconfined

Solution Method: Dagan

$K = 5.911E-8$ m/sec

$y_0 = 0.09512$ m



WELL TEST ANALYSIS

Data Set: C:\...\4. MW23-04 Pump Test Wizard- observation wells .jpg.aqt

Date: 10/19/23

Time: 16:54:01

PROJECT INFORMATION

Company: Englobe Corp.

Client: Churchill Properties Inc.

Project: 02103035

Location: 424 Churchill

Test Well: MW23-04

Test Date: August 17, 2023

WELL DATA

Pumping Wells

| Well Name | X (m) | Y (m) |
|-----------|-------|-------|
| MW23-04 | 18 | 0 |

Observation Wells

| Well Name | X (m) | Y (m) |
|-----------|-------|-------|
| □ MW23-04 | 18 | 0 |
| □ MW23-02 | 27 | 13 |
| □ MW23-03 | 0 | 2 |

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 9.808E-5 m²/sec

S = 8.757E-5

Kz/Kr = 1.

b = 9.1 m

Data Set: C:\Projects\Churchill Ave\HydroG Assesment - 2023\Appendix C - Hydraulic Conductivity Estimates\AQUESTO
Date: 10/19/23
Time: 16:32:28

PROJECT INFORMATION

Company: Englobe Corp.
Client: Churchill Properties Inc.
Project: 02103035
Location: 424 Churchill
Test Date: August 17, 2023
Test Well: MW23-04

AQUIFER DATA

Saturated Thickness: 9.1 m
Anisotropy Ratio (Kz/Kr): 1.

PUMPING WELL DATA

No. of pumping wells: 1

Pumping Well No. 1: MW23-04

X Location: 18. m
Y Location: 0. m

Casing Radius: 0.0254 m
Well Radius: 0.045 m

Partially Penetrating Well
Depth to Top of Screen: 4.6 m
Depth to Bottom of Screen: 7.6 m

No. of pumping periods: 4

Pumping Period Data

| <u>Time (sec)</u> | <u>Rate (L/min)</u> | <u>Time (sec)</u> | <u>Rate (L/min)</u> | <u>Time (sec)</u> | <u>Rate (L/min)</u> |
|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|
| 0. | 5. | 2007. | 0. | | |
| 2006. | 5. | 3678. | 0. | | |

OBSERVATION WELL DATA

No. of observation wells: 3

Observation Well No. 1: MW23-04

X Location: 18. m
Y Location: 0. m

Radial distance from MW23-04: 0. m

Partially Penetrating Well
Depth to Top of Screen: 4.6 m
Depth to Bottom of Screen: 7.6 m

No. of Observations: 3678

Observation Data

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1. | 0.01 | 1227. | 0.68 | 2453. | 0.11 |
| 2. | 0.03 | 1228. | 0.68 | 2454. | 0.11 |
| 3. | 0.05 | 1229. | 0.68 | 2455. | 0.11 |
| 4. | 0.1 | 1230. | 0.68 | 2456. | 0.11 |
| 5. | 0.14 | 1231. | 0.68 | 2457. | 0.11 |
| 6. | 0.17 | 1232. | 0.68 | 2458. | 0.11 |
| 7. | 0.13 | 1233. | 0.68 | 2459. | 0.11 |
| 8. | 0.14 | 1234. | 0.69 | 2460. | 0.11 |
| 9. | 0.14 | 1235. | 0.69 | 2461. | 0.11 |
| 10. | 0.15 | 1236. | 0.68 | 2462. | 0.11 |
| 11. | 0.16 | 1237. | 0.69 | 2463. | 0.11 |
| 12. | 0.17 | 1238. | 0.68 | 2464. | 0.11 |
| 13. | 0.18 | 1239. | 0.69 | 2465. | 0.11 |
| 14. | 0.19 | 1240. | 0.69 | 2466. | 0.11 |
| 15. | 0.2 | 1241. | 0.68 | 2467. | 0.11 |
| 16. | 0.2 | 1242. | 0.69 | 2468. | 0.11 |
| 17. | 0.21 | 1243. | 0.68 | 2469. | 0.11 |
| 18. | 0.21 | 1244. | 0.69 | 2470. | 0.11 |
| 19. | 0.23 | 1245. | 0.68 | 2471. | 0.11 |
| 20. | 0.23 | 1246. | 0.69 | 2472. | 0.11 |
| 21. | 0.23 | 1247. | 0.69 | 2473. | 0.11 |
| 22. | 0.24 | 1248. | 0.68 | 2474. | 0.11 |
| 23. | 0.25 | 1249. | 0.69 | 2475. | 0.11 |
| 24. | 0.25 | 1250. | 0.69 | 2476. | 0.11 |
| 25. | 0.25 | 1251. | 0.69 | 2477. | 0.11 |
| 26. | 0.26 | 1252. | 0.68 | 2478. | 0.11 |
| 27. | 0.27 | 1253. | 0.68 | 2479. | 0.11 |
| 28. | 0.27 | 1254. | 0.68 | 2480. | 0.11 |
| 29. | 0.28 | 1255. | 0.69 | 2481. | 0.11 |
| 30. | 0.28 | 1256. | 0.69 | 2482. | 0.11 |
| 31. | 0.29 | 1257. | 0.68 | 2483. | 0.11 |
| 32. | 0.29 | 1258. | 0.69 | 2484. | 0.1 |
| 33. | 0.29 | 1259. | 0.69 | 2485. | 0.1 |
| 34. | 0.3 | 1260. | 0.69 | 2486. | 0.1 |
| 35. | 0.3 | 1261. | 0.69 | 2487. | 0.1 |
| 36. | 0.31 | 1262. | 0.69 | 2488. | 0.1 |
| 37. | 0.31 | 1263. | 0.69 | 2489. | 0.1 |
| 38. | 0.31 | 1264. | 0.68 | 2490. | 0.1 |
| 39. | 0.31 | 1265. | 0.69 | 2491. | 0.1 |
| 40. | 0.32 | 1266. | 0.69 | 2492. | 0.1 |
| 41. | 0.32 | 1267. | 0.68 | 2493. | 0.1 |
| 42. | 0.32 | 1268. | 0.68 | 2494. | 0.1 |
| 43. | 0.33 | 1269. | 0.68 | 2495. | 0.1 |
| 44. | 0.33 | 1270. | 0.68 | 2496. | 0.1 |
| 45. | 0.33 | 1271. | 0.69 | 2497. | 0.1 |
| 46. | 0.33 | 1272. | 0.68 | 2498. | 0.1 |
| 47. | 0.34 | 1273. | 0.69 | 2499. | 0.1 |
| 48. | 0.34 | 1274. | 0.69 | 2500. | 0.1 |
| 49. | 0.35 | 1275. | 0.68 | 2501. | 0.1 |
| 50. | 0.35 | 1276. | 0.68 | 2502. | 0.1 |
| 51. | 0.35 | 1277. | 0.69 | 2503. | 0.1 |
| 52. | 0.35 | 1278. | 0.69 | 2504. | 0.1 |
| 53. | 0.35 | 1279. | 0.68 | 2505. | 0.1 |
| 54. | 0.36 | 1280. | 0.68 | 2506. | 0.1 |
| 55. | 0.35 | 1281. | 0.68 | 2507. | 0.1 |
| 56. | 0.36 | 1282. | 0.68 | 2508. | 0.1 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 57. | 0.36 | 1283. | 0.68 | 2509. | 0.1 |
| 58. | 0.37 | 1284. | 0.68 | 2510. | 0.1 |
| 59. | 0.37 | 1285. | 0.69 | 2511. | 0.1 |
| 60. | 0.37 | 1286. | 0.68 | 2512. | 0.1 |
| 61. | 0.37 | 1287. | 0.69 | 2513. | 0.1 |
| 62. | 0.37 | 1288. | 0.68 | 2514. | 0.1 |
| 63. | 0.37 | 1289. | 0.68 | 2515. | 0.1 |
| 64. | 0.37 | 1290. | 0.68 | 2516. | 0.1 |
| 65. | 0.38 | 1291. | 0.68 | 2517. | 0.1 |
| 66. | 0.37 | 1292. | 0.69 | 2518. | 0.1 |
| 67. | 0.38 | 1293. | 0.68 | 2519. | 0.1 |
| 68. | 0.38 | 1294. | 0.69 | 2520. | 0.1 |
| 69. | 0.38 | 1295. | 0.69 | 2521. | 0.1 |
| 70. | 0.38 | 1296. | 0.68 | 2522. | 0.1 |
| 71. | 0.38 | 1297. | 0.68 | 2523. | 0.1 |
| 72. | 0.38 | 1298. | 0.68 | 2524. | 0.1 |
| 73. | 0.39 | 1299. | 0.69 | 2525. | 0.1 |
| 74. | 0.39 | 1300. | 0.68 | 2526. | 0.1 |
| 75. | 0.39 | 1301. | 0.68 | 2527. | 0.1 |
| 76. | 0.39 | 1302. | 0.68 | 2528. | 0.1 |
| 77. | 0.39 | 1303. | 0.68 | 2529. | 0.1 |
| 78. | 0.39 | 1304. | 0.69 | 2530. | 0.1 |
| 79. | 0.39 | 1305. | 0.68 | 2531. | 0.1 |
| 80. | 0.4 | 1306. | 0.68 | 2532. | 0.1 |
| 81. | 0.4 | 1307. | 0.68 | 2533. | 0.1 |
| 82. | 0.4 | 1308. | 0.68 | 2534. | 0.1 |
| 83. | 0.41 | 1309. | 0.68 | 2535. | 0.1 |
| 84. | 0.41 | 1310. | 0.68 | 2536. | 0.1 |
| 85. | 0.41 | 1311. | 0.69 | 2537. | 0.1 |
| 86. | 0.41 | 1312. | 0.69 | 2538. | 0.1 |
| 87. | 0.41 | 1313. | 0.68 | 2539. | 0.1 |
| 88. | 0.41 | 1314. | 0.68 | 2540. | 0.1 |
| 89. | 0.41 | 1315. | 0.68 | 2541. | 0.1 |
| 90. | 0.41 | 1316. | 0.69 | 2542. | 0.1 |
| 91. | 0.42 | 1317. | 0.68 | 2543. | 0.1 |
| 92. | 0.41 | 1318. | 0.69 | 2544. | 0.1 |
| 93. | 0.42 | 1319. | 0.69 | 2545. | 0.1 |
| 94. | 0.42 | 1320. | 0.69 | 2546. | 0.1 |
| 95. | 0.42 | 1321. | 0.69 | 2547. | 0.1 |
| 96. | 0.42 | 1322. | 0.69 | 2548. | 0.1 |
| 97. | 0.42 | 1323. | 0.69 | 2549. | 0.1 |
| 98. | 0.43 | 1324. | 0.69 | 2550. | 0.1 |
| 99. | 0.42 | 1325. | 0.69 | 2551. | 0.1 |
| 100. | 0.43 | 1326. | 0.68 | 2552. | 0.1 |
| 101. | 0.43 | 1327. | 0.68 | 2553. | 0.1 |
| 102. | 0.43 | 1328. | 0.69 | 2554. | 0.1 |
| 103. | 0.43 | 1329. | 0.68 | 2555. | 0.1 |
| 104. | 0.43 | 1330. | 0.69 | 2556. | 0.1 |
| 105. | 0.44 | 1331. | 0.69 | 2557. | 0.1 |
| 106. | 0.43 | 1332. | 0.69 | 2558. | 0.1 |
| 107. | 0.43 | 1333. | 0.69 | 2559. | 0.1 |
| 108. | 0.44 | 1334. | 0.68 | 2560. | 0.1 |
| 109. | 0.43 | 1335. | 0.68 | 2561. | 0.1 |
| 110. | 0.44 | 1336. | 0.68 | 2562. | 0.1 |
| 111. | 0.44 | 1337. | 0.69 | 2563. | 0.1 |
| 112. | 0.44 | 1338. | 0.69 | 2564. | 0.1 |
| 113. | 0.44 | 1339. | 0.68 | 2565. | 0.1 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 114. | 0.44 | 1340. | 0.69 | 2566. | 0.1 |
| 115. | 0.44 | 1341. | 0.69 | 2567. | 0.1 |
| 116. | 0.44 | 1342. | 0.69 | 2568. | 0.09 |
| 117. | 0.44 | 1343. | 0.68 | 2569. | 0.09 |
| 118. | 0.45 | 1344. | 0.68 | 2570. | 0.09 |
| 119. | 0.44 | 1345. | 0.68 | 2571. | 0.09 |
| 120. | 0.45 | 1346. | 0.68 | 2572. | 0.09 |
| 121. | 0.45 | 1347. | 0.68 | 2573. | 0.09 |
| 122. | 0.45 | 1348. | 0.68 | 2574. | 0.09 |
| 123. | 0.45 | 1349. | 0.69 | 2575. | 0.09 |
| 124. | 0.45 | 1350. | 0.68 | 2576. | 0.09 |
| 125. | 0.45 | 1351. | 0.68 | 2577. | 0.09 |
| 126. | 0.45 | 1352. | 0.68 | 2578. | 0.09 |
| 127. | 0.45 | 1353. | 0.68 | 2579. | 0.09 |
| 128. | 0.46 | 1354. | 0.68 | 2580. | 0.09 |
| 129. | 0.45 | 1355. | 0.68 | 2581. | 0.09 |
| 130. | 0.46 | 1356. | 0.66 | 2582. | 0.09 |
| 131. | 0.46 | 1357. | 0.68 | 2583. | 0.09 |
| 132. | 0.46 | 1358. | 0.68 | 2584. | 0.09 |
| 133. | 0.45 | 1359. | 0.68 | 2585. | 0.09 |
| 134. | 0.46 | 1360. | 0.69 | 2586. | 0.09 |
| 135. | 0.46 | 1361. | 0.69 | 2587. | 0.09 |
| 136. | 0.46 | 1362. | 0.69 | 2588. | 0.09 |
| 137. | 0.46 | 1363. | 0.69 | 2589. | 0.09 |
| 138. | 0.46 | 1364. | 0.69 | 2590. | 0.09 |
| 139. | 0.46 | 1365. | 0.7 | 2591. | 0.09 |
| 140. | 0.46 | 1366. | 0.69 | 2592. | 0.09 |
| 141. | 0.47 | 1367. | 0.69 | 2593. | 0.09 |
| 142. | 0.46 | 1368. | 0.69 | 2594. | 0.09 |
| 143. | 0.46 | 1369. | 0.7 | 2595. | 0.09 |
| 144. | 0.46 | 1370. | 0.7 | 2596. | 0.09 |
| 145. | 0.46 | 1371. | 0.7 | 2597. | 0.09 |
| 146. | 0.46 | 1372. | 0.7 | 2598. | 0.09 |
| 147. | 0.47 | 1373. | 0.7 | 2599. | 0.09 |
| 148. | 0.47 | 1374. | 0.7 | 2600. | 0.09 |
| 149. | 0.47 | 1375. | 0.7 | 2601. | 0.09 |
| 150. | 0.47 | 1376. | 0.7 | 2602. | 0.09 |
| 151. | 0.47 | 1377. | 0.71 | 2603. | 0.09 |
| 152. | 0.47 | 1378. | 0.7 | 2604. | 0.09 |
| 153. | 0.47 | 1379. | 0.7 | 2605. | 0.09 |
| 154. | 0.48 | 1380. | 0.7 | 2606. | 0.09 |
| 155. | 0.48 | 1381. | 0.7 | 2607. | 0.09 |
| 156. | 0.47 | 1382. | 0.7 | 2608. | 0.09 |
| 157. | 0.47 | 1383. | 0.7 | 2609. | 0.09 |
| 158. | 0.47 | 1384. | 0.7 | 2610. | 0.09 |
| 159. | 0.47 | 1385. | 0.7 | 2611. | 0.09 |
| 160. | 0.47 | 1386. | 0.7 | 2612. | 0.09 |
| 161. | 0.47 | 1387. | 0.7 | 2613. | 0.09 |
| 162. | 0.47 | 1388. | 0.7 | 2614. | 0.09 |
| 163. | 0.47 | 1389. | 0.7 | 2615. | 0.09 |
| 164. | 0.48 | 1390. | 0.71 | 2616. | 0.09 |
| 165. | 0.48 | 1391. | 0.7 | 2617. | 0.09 |
| 166. | 0.48 | 1392. | 0.7 | 2618. | 0.09 |
| 167. | 0.48 | 1393. | 0.7 | 2619. | 0.09 |
| 168. | 0.48 | 1394. | 0.71 | 2620. | 0.09 |
| 169. | 0.48 | 1395. | 0.71 | 2621. | 0.09 |
| 170. | 0.48 | 1396. | 0.71 | 2622. | 0.09 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 171. | 0.48 | 1397. | 0.71 | 2623. | 0.09 |
| 172. | 0.48 | 1398. | 0.7 | 2624. | 0.09 |
| 173. | 0.47 | 1399. | 0.7 | 2625. | 0.09 |
| 174. | 0.48 | 1400. | 0.71 | 2626. | 0.09 |
| 175. | 0.48 | 1401. | 0.7 | 2627. | 0.09 |
| 176. | 0.48 | 1402. | 0.71 | 2628. | 0.09 |
| 177. | 0.48 | 1403. | 0.7 | 2629. | 0.09 |
| 178. | 0.48 | 1404. | 0.7 | 2630. | 0.09 |
| 179. | 0.48 | 1405. | 0.7 | 2631. | 0.09 |
| 180. | 0.48 | 1406. | 0.71 | 2632. | 0.09 |
| 181. | 0.48 | 1407. | 0.71 | 2633. | 0.09 |
| 182. | 0.48 | 1408. | 0.71 | 2634. | 0.09 |
| 183. | 0.48 | 1409. | 0.7 | 2635. | 0.09 |
| 184. | 0.48 | 1410. | 0.7 | 2636. | 0.09 |
| 185. | 0.48 | 1411. | 0.71 | 2637. | 0.09 |
| 186. | 0.48 | 1412. | 0.7 | 2638. | 0.09 |
| 187. | 0.48 | 1413. | 0.7 | 2639. | 0.09 |
| 188. | 0.49 | 1414. | 0.71 | 2640. | 0.09 |
| 189. | 0.49 | 1415. | 0.7 | 2641. | 0.09 |
| 190. | 0.49 | 1416. | 0.7 | 2642. | 0.09 |
| 191. | 0.49 | 1417. | 0.71 | 2643. | 0.09 |
| 192. | 0.49 | 1418. | 0.71 | 2644. | 0.09 |
| 193. | 0.48 | 1419. | 0.7 | 2645. | 0.09 |
| 194. | 0.48 | 1420. | 0.7 | 2646. | 0.09 |
| 195. | 0.49 | 1421. | 0.7 | 2647. | 0.09 |
| 196. | 0.49 | 1422. | 0.71 | 2648. | 0.09 |
| 197. | 0.48 | 1423. | 0.7 | 2649. | 0.09 |
| 198. | 0.49 | 1424. | 0.7 | 2650. | 0.09 |
| 199. | 0.49 | 1425. | 0.7 | 2651. | 0.09 |
| 200. | 0.49 | 1426. | 0.7 | 2652. | 0.09 |
| 201. | 0.49 | 1427. | 0.7 | 2653. | 0.09 |
| 202. | 0.49 | 1428. | 0.7 | 2654. | 0.09 |
| 203. | 0.5 | 1429. | 0.71 | 2655. | 0.09 |
| 204. | 0.5 | 1430. | 0.71 | 2656. | 0.09 |
| 205. | 0.49 | 1431. | 0.7 | 2657. | 0.09 |
| 206. | 0.5 | 1432. | 0.7 | 2658. | 0.09 |
| 207. | 0.5 | 1433. | 0.7 | 2659. | 0.09 |
| 208. | 0.5 | 1434. | 0.71 | 2660. | 0.09 |
| 209. | 0.5 | 1435. | 0.7 | 2661. | 0.09 |
| 210. | 0.5 | 1436. | 0.71 | 2662. | 0.09 |
| 211. | 0.5 | 1437. | 0.71 | 2663. | 0.09 |
| 212. | 0.5 | 1438. | 0.7 | 2664. | 0.09 |
| 213. | 0.5 | 1439. | 0.71 | 2665. | 0.09 |
| 214. | 0.51 | 1440. | 0.7 | 2666. | 0.09 |
| 215. | 0.5 | 1441. | 0.7 | 2667. | 0.09 |
| 216. | 0.51 | 1442. | 0.7 | 2668. | 0.09 |
| 217. | 0.51 | 1443. | 0.7 | 2669. | 0.09 |
| 218. | 0.51 | 1444. | 0.7 | 2670. | 0.09 |
| 219. | 0.51 | 1445. | 0.7 | 2671. | 0.09 |
| 220. | 0.51 | 1446. | 0.7 | 2672. | 0.09 |
| 221. | 0.51 | 1447. | 0.7 | 2673. | 0.09 |
| 222. | 0.51 | 1448. | 0.7 | 2674. | 0.09 |
| 223. | 0.52 | 1449. | 0.7 | 2675. | 0.09 |
| 224. | 0.51 | 1450. | 0.7 | 2676. | 0.09 |
| 225. | 0.51 | 1451. | 0.7 | 2677. | 0.09 |
| 226. | 0.51 | 1452. | 0.7 | 2678. | 0.09 |
| 227. | 0.51 | 1453. | 0.71 | 2679. | 0.09 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 228. | 0.52 | 1454. | 0.71 | 2680. | 0.09 |
| 229. | 0.51 | 1455. | 0.71 | 2681. | 0.09 |
| 230. | 0.51 | 1456. | 0.7 | 2682. | 0.09 |
| 231. | 0.51 | 1457. | 0.7 | 2683. | 0.09 |
| 232. | 0.52 | 1458. | 0.7 | 2684. | 0.09 |
| 233. | 0.52 | 1459. | 0.7 | 2685. | 0.09 |
| 234. | 0.51 | 1460. | 0.7 | 2686. | 0.09 |
| 235. | 0.52 | 1461. | 0.7 | 2687. | 0.09 |
| 236. | 0.52 | 1462. | 0.71 | 2688. | 0.08 |
| 237. | 0.52 | 1463. | 0.7 | 2689. | 0.09 |
| 238. | 0.52 | 1464. | 0.7 | 2690. | 0.08 |
| 239. | 0.52 | 1465. | 0.7 | 2691. | 0.08 |
| 240. | 0.52 | 1466. | 0.71 | 2692. | 0.08 |
| 241. | 0.52 | 1467. | 0.7 | 2693. | 0.08 |
| 242. | 0.52 | 1468. | 0.71 | 2694. | 0.08 |
| 243. | 0.52 | 1469. | 0.71 | 2695. | 0.08 |
| 244. | 0.52 | 1470. | 0.7 | 2696. | 0.08 |
| 245. | 0.52 | 1471. | 0.71 | 2697. | 0.08 |
| 246. | 0.52 | 1472. | 0.71 | 2698. | 0.08 |
| 247. | 0.52 | 1473. | 0.7 | 2699. | 0.08 |
| 248. | 0.52 | 1474. | 0.7 | 2700. | 0.08 |
| 249. | 0.52 | 1475. | 0.71 | 2701. | 0.08 |
| 250. | 0.52 | 1476. | 0.71 | 2702. | 0.08 |
| 251. | 0.52 | 1477. | 0.7 | 2703. | 0.08 |
| 252. | 0.52 | 1478. | 0.7 | 2704. | 0.08 |
| 253. | 0.52 | 1479. | 0.7 | 2705. | 0.08 |
| 254. | 0.52 | 1480. | 0.7 | 2706. | 0.08 |
| 255. | 0.53 | 1481. | 0.71 | 2707. | 0.08 |
| 256. | 0.52 | 1482. | 0.7 | 2708. | 0.08 |
| 257. | 0.53 | 1483. | 0.7 | 2709. | 0.08 |
| 258. | 0.52 | 1484. | 0.7 | 2710. | 0.08 |
| 259. | 0.53 | 1485. | 0.7 | 2711. | 0.08 |
| 260. | 0.53 | 1486. | 0.7 | 2712. | 0.08 |
| 261. | 0.52 | 1487. | 0.7 | 2713. | 0.08 |
| 262. | 0.53 | 1488. | 0.7 | 2714. | 0.08 |
| 263. | 0.53 | 1489. | 0.7 | 2715. | 0.08 |
| 264. | 0.53 | 1490. | 0.7 | 2716. | 0.08 |
| 265. | 0.52 | 1491. | 0.7 | 2717. | 0.08 |
| 266. | 0.53 | 1492. | 0.71 | 2718. | 0.08 |
| 267. | 0.53 | 1493. | 0.7 | 2719. | 0.08 |
| 268. | 0.53 | 1494. | 0.7 | 2720. | 0.08 |
| 269. | 0.53 | 1495. | 0.7 | 2721. | 0.08 |
| 270. | 0.53 | 1496. | 0.7 | 2722. | 0.08 |
| 271. | 0.52 | 1497. | 0.71 | 2723. | 0.08 |
| 272. | 0.52 | 1498. | 0.71 | 2724. | 0.08 |
| 273. | 0.52 | 1499. | 0.7 | 2725. | 0.08 |
| 274. | 0.53 | 1500. | 0.71 | 2726. | 0.08 |
| 275. | 0.53 | 1501. | 0.71 | 2727. | 0.08 |
| 276. | 0.53 | 1502. | 0.71 | 2728. | 0.08 |
| 277. | 0.53 | 1503. | 0.71 | 2729. | 0.08 |
| 278. | 0.53 | 1504. | 0.71 | 2730. | 0.08 |
| 279. | 0.53 | 1505. | 0.71 | 2731. | 0.08 |
| 280. | 0.53 | 1506. | 0.7 | 2732. | 0.08 |
| 281. | 0.53 | 1507. | 0.71 | 2733. | 0.08 |
| 282. | 0.53 | 1508. | 0.71 | 2734. | 0.08 |
| 283. | 0.53 | 1509. | 0.71 | 2735. | 0.08 |
| 284. | 0.53 | 1510. | 0.71 | 2736. | 0.08 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 285. | 0.53 | 1511. | 0.7 | 2737. | 0.08 |
| 286. | 0.53 | 1512. | 0.7 | 2738. | 0.08 |
| 287. | 0.53 | 1513. | 0.71 | 2739. | 0.08 |
| 288. | 0.53 | 1514. | 0.71 | 2740. | 0.08 |
| 289. | 0.53 | 1515. | 0.71 | 2741. | 0.08 |
| 290. | 0.53 | 1516. | 0.71 | 2742. | 0.08 |
| 291. | 0.53 | 1517. | 0.7 | 2743. | 0.08 |
| 292. | 0.54 | 1518. | 0.7 | 2744. | 0.08 |
| 293. | 0.54 | 1519. | 0.71 | 2745. | 0.08 |
| 294. | 0.53 | 1520. | 0.7 | 2746. | 0.08 |
| 295. | 0.53 | 1521. | 0.71 | 2747. | 0.08 |
| 296. | 0.53 | 1522. | 0.71 | 2748. | 0.08 |
| 297. | 0.53 | 1523. | 0.7 | 2749. | 0.08 |
| 298. | 0.53 | 1524. | 0.7 | 2750. | 0.08 |
| 299. | 0.53 | 1525. | 0.7 | 2751. | 0.08 |
| 300. | 0.54 | 1526. | 0.7 | 2752. | 0.08 |
| 301. | 0.53 | 1527. | 0.7 | 2753. | 0.08 |
| 302. | 0.54 | 1528. | 0.7 | 2754. | 0.08 |
| 303. | 0.54 | 1529. | 0.7 | 2755. | 0.08 |
| 304. | 0.54 | 1530. | 0.7 | 2756. | 0.08 |
| 305. | 0.54 | 1531. | 0.7 | 2757. | 0.08 |
| 306. | 0.53 | 1532. | 0.7 | 2758. | 0.08 |
| 307. | 0.54 | 1533. | 0.7 | 2759. | 0.08 |
| 308. | 0.54 | 1534. | 0.7 | 2760. | 0.08 |
| 309. | 0.54 | 1535. | 0.7 | 2761. | 0.08 |
| 310. | 0.53 | 1536. | 0.71 | 2762. | 0.08 |
| 311. | 0.54 | 1537. | 0.7 | 2763. | 0.08 |
| 312. | 0.54 | 1538. | 0.7 | 2764. | 0.08 |
| 313. | 0.53 | 1539. | 0.7 | 2765. | 0.08 |
| 314. | 0.54 | 1540. | 0.71 | 2766. | 0.08 |
| 315. | 0.54 | 1541. | 0.71 | 2767. | 0.08 |
| 316. | 0.54 | 1542. | 0.71 | 2768. | 0.08 |
| 317. | 0.53 | 1543. | 0.71 | 2769. | 0.08 |
| 318. | 0.53 | 1544. | 0.71 | 2770. | 0.08 |
| 319. | 0.54 | 1545. | 0.71 | 2771. | 0.08 |
| 320. | 0.53 | 1546. | 0.71 | 2772. | 0.08 |
| 321. | 0.53 | 1547. | 0.71 | 2773. | 0.08 |
| 322. | 0.54 | 1548. | 0.71 | 2774. | 0.08 |
| 323. | 0.54 | 1549. | 0.71 | 2775. | 0.08 |
| 324. | 0.54 | 1550. | 0.71 | 2776. | 0.08 |
| 325. | 0.54 | 1551. | 0.71 | 2777. | 0.08 |
| 326. | 0.54 | 1552. | 0.71 | 2778. | 0.08 |
| 327. | 0.53 | 1553. | 0.71 | 2779. | 0.08 |
| 328. | 0.54 | 1554. | 0.71 | 2780. | 0.08 |
| 329. | 0.54 | 1555. | 0.71 | 2781. | 0.08 |
| 330. | 0.54 | 1556. | 0.71 | 2782. | 0.08 |
| 331. | 0.54 | 1557. | 0.71 | 2783. | 0.08 |
| 332. | 0.54 | 1558. | 0.71 | 2784. | 0.08 |
| 333. | 0.53 | 1559. | 0.71 | 2785. | 0.08 |
| 334. | 0.54 | 1560. | 0.71 | 2786. | 0.08 |
| 335. | 0.54 | 1561. | 0.71 | 2787. | 0.08 |
| 336. | 0.54 | 1562. | 0.71 | 2788. | 0.08 |
| 337. | 0.53 | 1563. | 0.71 | 2789. | 0.08 |
| 338. | 0.54 | 1564. | 0.71 | 2790. | 0.08 |
| 339. | 0.54 | 1565. | 0.72 | 2791. | 0.08 |
| 340. | 0.54 | 1566. | 0.71 | 2792. | 0.08 |
| 341. | 0.54 | 1567. | 0.72 | 2793. | 0.08 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 342. | 0.54 | 1568. | 0.72 | 2794. | 0.08 |
| 343. | 0.54 | 1569. | 0.72 | 2795. | 0.08 |
| 344. | 0.54 | 1570. | 0.71 | 2796. | 0.08 |
| 345. | 0.54 | 1571. | 0.72 | 2797. | 0.08 |
| 346. | 0.54 | 1572. | 0.71 | 2798. | 0.08 |
| 347. | 0.54 | 1573. | 0.71 | 2799. | 0.08 |
| 348. | 0.54 | 1574. | 0.71 | 2800. | 0.08 |
| 349. | 0.54 | 1575. | 0.71 | 2801. | 0.08 |
| 350. | 0.54 | 1576. | 0.72 | 2802. | 0.08 |
| 351. | 0.54 | 1577. | 0.72 | 2803. | 0.08 |
| 352. | 0.54 | 1578. | 0.72 | 2804. | 0.08 |
| 353. | 0.54 | 1579. | 0.71 | 2805. | 0.08 |
| 354. | 0.54 | 1580. | 0.72 | 2806. | 0.08 |
| 355. | 0.54 | 1581. | 0.71 | 2807. | 0.08 |
| 356. | 0.54 | 1582. | 0.72 | 2808. | 0.08 |
| 357. | 0.54 | 1583. | 0.71 | 2809. | 0.08 |
| 358. | 0.54 | 1584. | 0.72 | 2810. | 0.08 |
| 359. | 0.54 | 1585. | 0.72 | 2811. | 0.08 |
| 360. | 0.54 | 1586. | 0.72 | 2812. | 0.08 |
| 361. | 0.54 | 1587. | 0.72 | 2813. | 0.08 |
| 362. | 0.54 | 1588. | 0.71 | 2814. | 0.08 |
| 363. | 0.54 | 1589. | 0.71 | 2815. | 0.08 |
| 364. | 0.54 | 1590. | 0.72 | 2816. | 0.08 |
| 365. | 0.54 | 1591. | 0.71 | 2817. | 0.08 |
| 366. | 0.54 | 1592. | 0.72 | 2818. | 0.08 |
| 367. | 0.54 | 1593. | 0.71 | 2819. | 0.08 |
| 368. | 0.53 | 1594. | 0.72 | 2820. | 0.08 |
| 369. | 0.54 | 1595. | 0.72 | 2821. | 0.08 |
| 370. | 0.54 | 1596. | 0.72 | 2822. | 0.08 |
| 371. | 0.54 | 1597. | 0.72 | 2823. | 0.08 |
| 372. | 0.54 | 1598. | 0.72 | 2824. | 0.08 |
| 373. | 0.54 | 1599. | 0.72 | 2825. | 0.08 |
| 374. | 0.54 | 1600. | 0.72 | 2826. | 0.08 |
| 375. | 0.54 | 1601. | 0.73 | 2827. | 0.08 |
| 376. | 0.54 | 1602. | 0.72 | 2828. | 0.08 |
| 377. | 0.54 | 1603. | 0.72 | 2829. | 0.08 |
| 378. | 0.55 | 1604. | 0.73 | 2830. | 0.08 |
| 379. | 0.55 | 1605. | 0.72 | 2831. | 0.08 |
| 380. | 0.54 | 1606. | 0.73 | 2832. | 0.08 |
| 381. | 0.54 | 1607. | 0.73 | 2833. | 0.08 |
| 382. | 0.54 | 1608. | 0.73 | 2834. | 0.08 |
| 383. | 0.55 | 1609. | 0.73 | 2835. | 0.08 |
| 384. | 0.55 | 1610. | 0.73 | 2836. | 0.08 |
| 385. | 0.55 | 1611. | 0.73 | 2837. | 0.08 |
| 386. | 0.55 | 1612. | 0.73 | 2838. | 0.08 |
| 387. | 0.55 | 1613. | 0.72 | 2839. | 0.08 |
| 388. | 0.55 | 1614. | 0.73 | 2840. | 0.07 |
| 389. | 0.55 | 1615. | 0.73 | 2841. | 0.07 |
| 390. | 0.56 | 1616. | 0.73 | 2842. | 0.07 |
| 391. | 0.55 | 1617. | 0.73 | 2843. | 0.07 |
| 392. | 0.55 | 1618. | 0.72 | 2844. | 0.07 |
| 393. | 0.56 | 1619. | 0.72 | 2845. | 0.07 |
| 394. | 0.55 | 1620. | 0.73 | 2846. | 0.07 |
| 395. | 0.56 | 1621. | 0.73 | 2847. | 0.07 |
| 396. | 0.56 | 1622. | 0.73 | 2848. | 0.07 |
| 397. | 0.56 | 1623. | 0.73 | 2849. | 0.07 |
| 398. | 0.56 | 1624. | 0.73 | 2850. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 399. | 0.56 | 1625. | 0.72 | 2851. | 0.07 |
| 400. | 0.56 | 1626. | 0.73 | 2852. | 0.07 |
| 401. | 0.56 | 1627. | 0.73 | 2853. | 0.07 |
| 402. | 0.56 | 1628. | 0.73 | 2854. | 0.07 |
| 403. | 0.56 | 1629. | 0.73 | 2855. | 0.07 |
| 404. | 0.56 | 1630. | 0.72 | 2856. | 0.07 |
| 405. | 0.56 | 1631. | 0.73 | 2857. | 0.07 |
| 406. | 0.56 | 1632. | 0.73 | 2858. | 0.07 |
| 407. | 0.56 | 1633. | 0.73 | 2859. | 0.07 |
| 408. | 0.57 | 1634. | 0.73 | 2860. | 0.07 |
| 409. | 0.56 | 1635. | 0.73 | 2861. | 0.07 |
| 410. | 0.57 | 1636. | 0.73 | 2862. | 0.07 |
| 411. | 0.57 | 1637. | 0.73 | 2863. | 0.07 |
| 412. | 0.57 | 1638. | 0.73 | 2864. | 0.07 |
| 413. | 0.57 | 1639. | 0.73 | 2865. | 0.07 |
| 414. | 0.57 | 1640. | 0.73 | 2866. | 0.07 |
| 415. | 0.57 | 1641. | 0.73 | 2867. | 0.07 |
| 416. | 0.57 | 1642. | 0.72 | 2868. | 0.07 |
| 417. | 0.57 | 1643. | 0.73 | 2869. | 0.07 |
| 418. | 0.57 | 1644. | 0.73 | 2870. | 0.07 |
| 419. | 0.57 | 1645. | 0.73 | 2871. | 0.07 |
| 420. | 0.57 | 1646. | 0.73 | 2872. | 0.07 |
| 421. | 0.57 | 1647. | 0.73 | 2873. | 0.07 |
| 422. | 0.57 | 1648. | 0.73 | 2874. | 0.07 |
| 423. | 0.57 | 1649. | 0.73 | 2875. | 0.07 |
| 424. | 0.57 | 1650. | 0.72 | 2876. | 0.07 |
| 425. | 0.57 | 1651. | 0.73 | 2877. | 0.07 |
| 426. | 0.57 | 1652. | 0.73 | 2878. | 0.07 |
| 427. | 0.57 | 1653. | 0.73 | 2879. | 0.07 |
| 428. | 0.57 | 1654. | 0.73 | 2880. | 0.07 |
| 429. | 0.57 | 1655. | 0.73 | 2881. | 0.07 |
| 430. | 0.57 | 1656. | 0.73 | 2882. | 0.07 |
| 431. | 0.57 | 1657. | 0.73 | 2883. | 0.07 |
| 432. | 0.57 | 1658. | 0.73 | 2884. | 0.07 |
| 433. | 0.57 | 1659. | 0.73 | 2885. | 0.07 |
| 434. | 0.57 | 1660. | 0.73 | 2886. | 0.07 |
| 435. | 0.57 | 1661. | 0.73 | 2887. | 0.07 |
| 436. | 0.57 | 1662. | 0.73 | 2888. | 0.07 |
| 437. | 0.57 | 1663. | 0.73 | 2889. | 0.07 |
| 438. | 0.57 | 1664. | 0.73 | 2890. | 0.07 |
| 439. | 0.57 | 1665. | 0.73 | 2891. | 0.07 |
| 440. | 0.57 | 1666. | 0.73 | 2892. | 0.07 |
| 441. | 0.57 | 1667. | 0.73 | 2893. | 0.07 |
| 442. | 0.58 | 1668. | 0.73 | 2894. | 0.07 |
| 443. | 0.57 | 1669. | 0.73 | 2895. | 0.07 |
| 444. | 0.58 | 1670. | 0.73 | 2896. | 0.07 |
| 445. | 0.58 | 1671. | 0.73 | 2897. | 0.07 |
| 446. | 0.57 | 1672. | 0.73 | 2898. | 0.07 |
| 447. | 0.57 | 1673. | 0.73 | 2899. | 0.07 |
| 448. | 0.57 | 1674. | 0.73 | 2900. | 0.07 |
| 449. | 0.57 | 1675. | 0.73 | 2901. | 0.07 |
| 450. | 0.58 | 1676. | 0.73 | 2902. | 0.07 |
| 451. | 0.57 | 1677. | 0.73 | 2903. | 0.07 |
| 452. | 0.58 | 1678. | 0.73 | 2904. | 0.07 |
| 453. | 0.57 | 1679. | 0.73 | 2905. | 0.07 |
| 454. | 0.57 | 1680. | 0.73 | 2906. | 0.07 |
| 455. | 0.58 | 1681. | 0.73 | 2907. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 456. | 0.58 | 1682. | 0.73 | 2908. | 0.07 |
| 457. | 0.58 | 1683. | 0.73 | 2909. | 0.07 |
| 458. | 0.58 | 1684. | 0.73 | 2910. | 0.07 |
| 459. | 0.58 | 1685. | 0.73 | 2911. | 0.07 |
| 460. | 0.58 | 1686. | 0.72 | 2912. | 0.07 |
| 461. | 0.58 | 1687. | 0.72 | 2913. | 0.07 |
| 462. | 0.58 | 1688. | 0.72 | 2914. | 0.07 |
| 463. | 0.58 | 1689. | 0.73 | 2915. | 0.07 |
| 464. | 0.59 | 1690. | 0.73 | 2916. | 0.07 |
| 465. | 0.58 | 1691. | 0.73 | 2917. | 0.07 |
| 466. | 0.58 | 1692. | 0.73 | 2918. | 0.07 |
| 467. | 0.59 | 1693. | 0.72 | 2919. | 0.07 |
| 468. | 0.58 | 1694. | 0.73 | 2920. | 0.07 |
| 469. | 0.59 | 1695. | 0.72 | 2921. | 0.07 |
| 470. | 0.59 | 1696. | 0.72 | 2922. | 0.07 |
| 471. | 0.58 | 1697. | 0.73 | 2923. | 0.07 |
| 472. | 0.58 | 1698. | 0.73 | 2924. | 0.07 |
| 473. | 0.58 | 1699. | 0.73 | 2925. | 0.07 |
| 474. | 0.58 | 1700. | 0.72 | 2926. | 0.07 |
| 475. | 0.58 | 1701. | 0.73 | 2927. | 0.07 |
| 476. | 0.58 | 1702. | 0.73 | 2928. | 0.07 |
| 477. | 0.58 | 1703. | 0.72 | 2929. | 0.07 |
| 478. | 0.58 | 1704. | 0.73 | 2930. | 0.07 |
| 479. | 0.58 | 1705. | 0.73 | 2931. | 0.07 |
| 480. | 0.59 | 1706. | 0.72 | 2932. | 0.07 |
| 481. | 0.58 | 1707. | 0.73 | 2933. | 0.07 |
| 482. | 0.59 | 1708. | 0.73 | 2934. | 0.07 |
| 483. | 0.58 | 1709. | 0.73 | 2935. | 0.07 |
| 484. | 0.59 | 1710. | 0.73 | 2936. | 0.07 |
| 485. | 0.59 | 1711. | 0.72 | 2937. | 0.07 |
| 486. | 0.59 | 1712. | 0.72 | 2938. | 0.07 |
| 487. | 0.58 | 1713. | 0.72 | 2939. | 0.07 |
| 488. | 0.59 | 1714. | 0.73 | 2940. | 0.07 |
| 489. | 0.59 | 1715. | 0.72 | 2941. | 0.07 |
| 490. | 0.59 | 1716. | 0.73 | 2942. | 0.07 |
| 491. | 0.59 | 1717. | 0.73 | 2943. | 0.07 |
| 492. | 0.59 | 1718. | 0.73 | 2944. | 0.07 |
| 493. | 0.59 | 1719. | 0.73 | 2945. | 0.07 |
| 494. | 0.59 | 1720. | 0.72 | 2946. | 0.07 |
| 495. | 0.59 | 1721. | 0.72 | 2947. | 0.07 |
| 496. | 0.59 | 1722. | 0.73 | 2948. | 0.07 |
| 497. | 0.59 | 1723. | 0.72 | 2949. | 0.07 |
| 498. | 0.59 | 1724. | 0.73 | 2950. | 0.07 |
| 499. | 0.59 | 1725. | 0.73 | 2951. | 0.07 |
| 500. | 0.6 | 1726. | 0.73 | 2952. | 0.07 |
| 501. | 0.59 | 1727. | 0.73 | 2953. | 0.07 |
| 502. | 0.59 | 1728. | 0.73 | 2954. | 0.07 |
| 503. | 0.59 | 1729. | 0.73 | 2955. | 0.07 |
| 504. | 0.59 | 1730. | 0.73 | 2956. | 0.07 |
| 505. | 0.59 | 1731. | 0.73 | 2957. | 0.07 |
| 506. | 0.59 | 1732. | 0.73 | 2958. | 0.07 |
| 507. | 0.6 | 1733. | 0.73 | 2959. | 0.07 |
| 508. | 0.59 | 1734. | 0.73 | 2960. | 0.07 |
| 509. | 0.6 | 1735. | 0.72 | 2961. | 0.07 |
| 510. | 0.59 | 1736. | 0.73 | 2962. | 0.07 |
| 511. | 0.59 | 1737. | 0.73 | 2963. | 0.07 |
| 512. | 0.59 | 1738. | 0.73 | 2964. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 513. | 0.59 | 1739. | 0.73 | 2965. | 0.07 |
| 514. | 0.59 | 1740. | 0.72 | 2966. | 0.07 |
| 515. | 0.59 | 1741. | 0.72 | 2967. | 0.07 |
| 516. | 0.59 | 1742. | 0.72 | 2968. | 0.07 |
| 517. | 0.59 | 1743. | 0.72 | 2969. | 0.07 |
| 518. | 0.6 | 1744. | 0.72 | 2970. | 0.07 |
| 519. | 0.59 | 1745. | 0.72 | 2971. | 0.07 |
| 520. | 0.59 | 1746. | 0.73 | 2972. | 0.07 |
| 521. | 0.59 | 1747. | 0.72 | 2973. | 0.07 |
| 522. | 0.6 | 1748. | 0.72 | 2974. | 0.07 |
| 523. | 0.6 | 1749. | 0.73 | 2975. | 0.07 |
| 524. | 0.59 | 1750. | 0.72 | 2976. | 0.07 |
| 525. | 0.59 | 1751. | 0.73 | 2977. | 0.07 |
| 526. | 0.59 | 1752. | 0.73 | 2978. | 0.07 |
| 527. | 0.59 | 1753. | 0.72 | 2979. | 0.07 |
| 528. | 0.59 | 1754. | 0.72 | 2980. | 0.07 |
| 529. | 0.6 | 1755. | 0.73 | 2981. | 0.07 |
| 530. | 0.59 | 1756. | 0.72 | 2982. | 0.07 |
| 531. | 0.59 | 1757. | 0.73 | 2983. | 0.07 |
| 532. | 0.59 | 1758. | 0.73 | 2984. | 0.07 |
| 533. | 0.59 | 1759. | 0.74 | 2985. | 0.07 |
| 534. | 0.59 | 1760. | 0.73 | 2986. | 0.07 |
| 535. | 0.59 | 1761. | 0.73 | 2987. | 0.07 |
| 536. | 0.6 | 1762. | 0.74 | 2988. | 0.07 |
| 537. | 0.6 | 1763. | 0.74 | 2989. | 0.07 |
| 538. | 0.59 | 1764. | 0.74 | 2990. | 0.07 |
| 539. | 0.6 | 1765. | 0.74 | 2991. | 0.07 |
| 540. | 0.59 | 1766. | 0.74 | 2992. | 0.07 |
| 541. | 0.6 | 1767. | 0.74 | 2993. | 0.07 |
| 542. | 0.6 | 1768. | 0.74 | 2994. | 0.07 |
| 543. | 0.6 | 1769. | 0.74 | 2995. | 0.07 |
| 544. | 0.6 | 1770. | 0.74 | 2996. | 0.07 |
| 545. | 0.6 | 1771. | 0.74 | 2997. | 0.07 |
| 546. | 0.6 | 1772. | 0.75 | 2998. | 0.07 |
| 547. | 0.6 | 1773. | 0.74 | 2999. | 0.07 |
| 548. | 0.6 | 1774. | 0.74 | 3000. | 0.07 |
| 549. | 0.6 | 1775. | 0.74 | 3001. | 0.07 |
| 550. | 0.6 | 1776. | 0.75 | 3002. | 0.07 |
| 551. | 0.6 | 1777. | 0.74 | 3003. | 0.07 |
| 552. | 0.6 | 1778. | 0.75 | 3004. | 0.07 |
| 553. | 0.6 | 1779. | 0.75 | 3005. | 0.07 |
| 554. | 0.6 | 1780. | 0.75 | 3006. | 0.07 |
| 555. | 0.6 | 1781. | 0.75 | 3007. | 0.07 |
| 556. | 0.6 | 1782. | 0.75 | 3008. | 0.07 |
| 557. | 0.6 | 1783. | 0.75 | 3009. | 0.07 |
| 558. | 0.6 | 1784. | 0.75 | 3010. | 0.07 |
| 559. | 0.6 | 1785. | 0.75 | 3011. | 0.07 |
| 560. | 0.6 | 1786. | 0.75 | 3012. | 0.07 |
| 561. | 0.6 | 1787. | 0.75 | 3013. | 0.07 |
| 562. | 0.6 | 1788. | 0.76 | 3014. | 0.07 |
| 563. | 0.6 | 1789. | 0.75 | 3015. | 0.07 |
| 564. | 0.6 | 1790. | 0.75 | 3016. | 0.07 |
| 565. | 0.6 | 1791. | 0.75 | 3017. | 0.07 |
| 566. | 0.6 | 1792. | 0.75 | 3018. | 0.07 |
| 567. | 0.6 | 1793. | 0.75 | 3019. | 0.07 |
| 568. | 0.6 | 1794. | 0.75 | 3020. | 0.07 |
| 569. | 0.6 | 1795. | 0.75 | 3021. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 570. | 0.6 | 1796. | 0.75 | 3022. | 0.07 |
| 571. | 0.61 | 1797. | 0.75 | 3023. | 0.07 |
| 572. | 0.61 | 1798. | 0.75 | 3024. | 0.07 |
| 573. | 0.61 | 1799. | 0.75 | 3025. | 0.07 |
| 574. | 0.6 | 1800. | 0.75 | 3026. | 0.07 |
| 575. | 0.61 | 1801. | 0.75 | 3027. | 0.07 |
| 576. | 0.61 | 1802. | 0.75 | 3028. | 0.07 |
| 577. | 0.61 | 1803. | 0.75 | 3029. | 0.07 |
| 578. | 0.61 | 1804. | 0.75 | 3030. | 0.07 |
| 579. | 0.61 | 1805. | 0.75 | 3031. | 0.07 |
| 580. | 0.61 | 1806. | 0.75 | 3032. | 0.07 |
| 581. | 0.62 | 1807. | 0.75 | 3033. | 0.07 |
| 582. | 0.61 | 1808. | 0.75 | 3034. | 0.07 |
| 583. | 0.61 | 1809. | 0.75 | 3035. | 0.07 |
| 584. | 0.61 | 1810. | 0.75 | 3036. | 0.07 |
| 585. | 0.62 | 1811. | 0.76 | 3037. | 0.07 |
| 586. | 0.62 | 1812. | 0.75 | 3038. | 0.07 |
| 587. | 0.62 | 1813. | 0.76 | 3039. | 0.07 |
| 588. | 0.62 | 1814. | 0.75 | 3040. | 0.07 |
| 589. | 0.62 | 1815. | 0.75 | 3041. | 0.07 |
| 590. | 0.62 | 1816. | 0.76 | 3042. | 0.07 |
| 591. | 0.62 | 1817. | 0.75 | 3043. | 0.07 |
| 592. | 0.62 | 1818. | 0.75 | 3044. | 0.07 |
| 593. | 0.62 | 1819. | 0.76 | 3045. | 0.06 |
| 594. | 0.62 | 1820. | 0.75 | 3046. | 0.06 |
| 595. | 0.62 | 1821. | 0.75 | 3047. | 0.06 |
| 596. | 0.62 | 1822. | 0.75 | 3048. | 0.06 |
| 597. | 0.62 | 1823. | 0.75 | 3049. | 0.07 |
| 598. | 0.62 | 1824. | 0.75 | 3050. | 0.07 |
| 599. | 0.62 | 1825. | 0.75 | 3051. | 0.07 |
| 600. | 0.62 | 1826. | 0.75 | 3052. | 0.07 |
| 601. | 0.62 | 1827. | 0.75 | 3053. | 0.07 |
| 602. | 0.62 | 1828. | 0.75 | 3054. | 0.07 |
| 603. | 0.62 | 1829. | 0.75 | 3055. | 0.07 |
| 604. | 0.62 | 1830. | 0.75 | 3056. | 0.06 |
| 605. | 0.62 | 1831. | 0.75 | 3057. | 0.07 |
| 606. | 0.62 | 1832. | 0.75 | 3058. | 0.06 |
| 607. | 0.62 | 1833. | 0.75 | 3059. | 0.06 |
| 608. | 0.63 | 1834. | 0.75 | 3060. | 0.06 |
| 609. | 0.63 | 1835. | 0.75 | 3061. | 0.06 |
| 610. | 0.62 | 1836. | 0.75 | 3062. | 0.06 |
| 611. | 0.63 | 1837. | 0.75 | 3063. | 0.06 |
| 612. | 0.62 | 1838. | 0.75 | 3064. | 0.06 |
| 613. | 0.63 | 1839. | 0.75 | 3065. | 0.07 |
| 614. | 0.63 | 1840. | 0.75 | 3066. | 0.06 |
| 615. | 0.63 | 1841. | 0.75 | 3067. | 0.06 |
| 616. | 0.63 | 1842. | 0.75 | 3068. | 0.06 |
| 617. | 0.62 | 1843. | 0.75 | 3069. | 0.06 |
| 618. | 0.63 | 1844. | 0.75 | 3070. | 0.06 |
| 619. | 0.63 | 1845. | 0.75 | 3071. | 0.06 |
| 620. | 0.63 | 1846. | 0.75 | 3072. | 0.06 |
| 621. | 0.62 | 1847. | 0.75 | 3073. | 0.06 |
| 622. | 0.63 | 1848. | 0.75 | 3074. | 0.06 |
| 623. | 0.63 | 1849. | 0.75 | 3075. | 0.06 |
| 624. | 0.63 | 1850. | 0.74 | 3076. | 0.06 |
| 625. | 0.63 | 1851. | 0.75 | 3077. | 0.06 |
| 626. | 0.63 | 1852. | 0.75 | 3078. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 627. | 0.63 | 1853. | 0.75 | 3079. | 0.06 |
| 628. | 0.63 | 1854. | 0.75 | 3080. | 0.06 |
| 629. | 0.63 | 1855. | 0.75 | 3081. | 0.06 |
| 630. | 0.62 | 1856. | 0.75 | 3082. | 0.06 |
| 631. | 0.62 | 1857. | 0.75 | 3083. | 0.06 |
| 632. | 0.63 | 1858. | 0.74 | 3084. | 0.06 |
| 633. | 0.63 | 1859. | 0.75 | 3085. | 0.06 |
| 634. | 0.63 | 1860. | 0.75 | 3086. | 0.06 |
| 635. | 0.63 | 1861. | 0.75 | 3087. | 0.06 |
| 636. | 0.63 | 1862. | 0.75 | 3088. | 0.06 |
| 637. | 0.63 | 1863. | 0.75 | 3089. | 0.06 |
| 638. | 0.63 | 1864. | 0.75 | 3090. | 0.06 |
| 639. | 0.63 | 1865. | 0.75 | 3091. | 0.06 |
| 640. | 0.63 | 1866. | 0.75 | 3092. | 0.06 |
| 641. | 0.63 | 1867. | 0.74 | 3093. | 0.06 |
| 642. | 0.63 | 1868. | 0.75 | 3094. | 0.06 |
| 643. | 0.63 | 1869. | 0.75 | 3095. | 0.06 |
| 644. | 0.62 | 1870. | 0.75 | 3096. | 0.06 |
| 645. | 0.63 | 1871. | 0.75 | 3097. | 0.06 |
| 646. | 0.63 | 1872. | 0.75 | 3098. | 0.06 |
| 647. | 0.63 | 1873. | 0.75 | 3099. | 0.06 |
| 648. | 0.63 | 1874. | 0.75 | 3100. | 0.06 |
| 649. | 0.63 | 1875. | 0.74 | 3101. | 0.06 |
| 650. | 0.63 | 1876. | 0.75 | 3102. | 0.06 |
| 651. | 0.63 | 1877. | 0.75 | 3103. | 0.06 |
| 652. | 0.63 | 1878. | 0.75 | 3104. | 0.06 |
| 653. | 0.63 | 1879. | 0.75 | 3105. | 0.06 |
| 654. | 0.63 | 1880. | 0.75 | 3106. | 0.06 |
| 655. | 0.63 | 1881. | 0.75 | 3107. | 0.06 |
| 656. | 0.62 | 1882. | 0.75 | 3108. | 0.06 |
| 657. | 0.63 | 1883. | 0.75 | 3109. | 0.06 |
| 658. | 0.63 | 1884. | 0.75 | 3110. | 0.06 |
| 659. | 0.63 | 1885. | 0.75 | 3111. | 0.06 |
| 660. | 0.63 | 1886. | 0.75 | 3112. | 0.06 |
| 661. | 0.63 | 1887. | 0.75 | 3113. | 0.06 |
| 662. | 0.63 | 1888. | 0.75 | 3114. | 0.06 |
| 663. | 0.63 | 1889. | 0.75 | 3115. | 0.06 |
| 664. | 0.63 | 1890. | 0.76 | 3116. | 0.06 |
| 665. | 0.63 | 1891. | 0.75 | 3117. | 0.06 |
| 666. | 0.63 | 1892. | 0.75 | 3118. | 0.06 |
| 667. | 0.63 | 1893. | 0.75 | 3119. | 0.06 |
| 668. | 0.64 | 1894. | 0.75 | 3120. | 0.06 |
| 669. | 0.63 | 1895. | 0.75 | 3121. | 0.06 |
| 670. | 0.63 | 1896. | 0.75 | 3122. | 0.06 |
| 671. | 0.63 | 1897. | 0.75 | 3123. | 0.06 |
| 672. | 0.63 | 1898. | 0.76 | 3124. | 0.06 |
| 673. | 0.63 | 1899. | 0.76 | 3125. | 0.06 |
| 674. | 0.63 | 1900. | 0.76 | 3126. | 0.06 |
| 675. | 0.63 | 1901. | 0.75 | 3127. | 0.06 |
| 676. | 0.63 | 1902. | 0.75 | 3128. | 0.06 |
| 677. | 0.64 | 1903. | 0.75 | 3129. | 0.06 |
| 678. | 0.63 | 1904. | 0.75 | 3130. | 0.06 |
| 679. | 0.64 | 1905. | 0.75 | 3131. | 0.06 |
| 680. | 0.63 | 1906. | 0.75 | 3132. | 0.06 |
| 681. | 0.63 | 1907. | 0.75 | 3133. | 0.06 |
| 682. | 0.63 | 1908. | 0.75 | 3134. | 0.06 |
| 683. | 0.63 | 1909. | 0.76 | 3135. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 684. | 0.64 | 1910. | 0.75 | 3136. | 0.06 |
| 685. | 0.63 | 1911. | 0.75 | 3137. | 0.06 |
| 686. | 0.64 | 1912. | 0.75 | 3138. | 0.06 |
| 687. | 0.63 | 1913. | 0.75 | 3139. | 0.06 |
| 688. | 0.64 | 1914. | 0.75 | 3140. | 0.06 |
| 689. | 0.63 | 1915. | 0.75 | 3141. | 0.06 |
| 690. | 0.63 | 1916. | 0.75 | 3142. | 0.06 |
| 691. | 0.63 | 1917. | 0.75 | 3143. | 0.06 |
| 692. | 0.64 | 1918. | 0.75 | 3144. | 0.06 |
| 693. | 0.63 | 1919. | 0.75 | 3145. | 0.06 |
| 694. | 0.64 | 1920. | 0.75 | 3146. | 0.06 |
| 695. | 0.64 | 1921. | 0.75 | 3147. | 0.06 |
| 696. | 0.63 | 1922. | 0.75 | 3148. | 0.06 |
| 697. | 0.64 | 1923. | 0.75 | 3149. | 0.06 |
| 698. | 0.64 | 1924. | 0.75 | 3150. | 0.06 |
| 699. | 0.64 | 1925. | 0.75 | 3151. | 0.06 |
| 700. | 0.63 | 1926. | 0.76 | 3152. | 0.06 |
| 701. | 0.64 | 1927. | 0.75 | 3153. | 0.06 |
| 702. | 0.64 | 1928. | 0.74 | 3154. | 0.06 |
| 703. | 0.63 | 1929. | 0.75 | 3155. | 0.06 |
| 704. | 0.64 | 1930. | 0.75 | 3156. | 0.06 |
| 705. | 0.64 | 1931. | 0.75 | 3157. | 0.06 |
| 706. | 0.64 | 1932. | 0.75 | 3158. | 0.06 |
| 707. | 0.63 | 1933. | 0.74 | 3159. | 0.06 |
| 708. | 0.63 | 1934. | 0.74 | 3160. | 0.06 |
| 709. | 0.64 | 1935. | 0.74 | 3161. | 0.06 |
| 710. | 0.64 | 1936. | 0.73 | 3162. | 0.06 |
| 711. | 0.63 | 1937. | 0.73 | 3163. | 0.06 |
| 712. | 0.64 | 1938. | 0.73 | 3164. | 0.06 |
| 713. | 0.64 | 1939. | 0.73 | 3165. | 0.06 |
| 714. | 0.64 | 1940. | 0.73 | 3166. | 0.06 |
| 715. | 0.64 | 1941. | 0.73 | 3167. | 0.06 |
| 716. | 0.63 | 1942. | 0.73 | 3168. | 0.06 |
| 717. | 0.64 | 1943. | 0.73 | 3169. | 0.06 |
| 718. | 0.63 | 1944. | 0.73 | 3170. | 0.06 |
| 719. | 0.64 | 1945. | 0.72 | 3171. | 0.06 |
| 720. | 0.64 | 1946. | 0.72 | 3172. | 0.06 |
| 721. | 0.64 | 1947. | 0.72 | 3173. | 0.06 |
| 722. | 0.64 | 1948. | 0.72 | 3174. | 0.06 |
| 723. | 0.64 | 1949. | 0.72 | 3175. | 0.06 |
| 724. | 0.64 | 1950. | 0.72 | 3176. | 0.06 |
| 725. | 0.64 | 1951. | 0.73 | 3177. | 0.06 |
| 726. | 0.64 | 1952. | 0.72 | 3178. | 0.06 |
| 727. | 0.64 | 1953. | 0.72 | 3179. | 0.06 |
| 728. | 0.64 | 1954. | 0.72 | 3180. | 0.06 |
| 729. | 0.64 | 1955. | 0.72 | 3181. | 0.06 |
| 730. | 0.64 | 1956. | 0.72 | 3182. | 0.06 |
| 731. | 0.64 | 1957. | 0.72 | 3183. | 0.06 |
| 732. | 0.63 | 1958. | 0.72 | 3184. | 0.06 |
| 733. | 0.64 | 1959. | 0.72 | 3185. | 0.06 |
| 734. | 0.64 | 1960. | 0.71 | 3186. | 0.06 |
| 735. | 0.64 | 1961. | 0.72 | 3187. | 0.06 |
| 736. | 0.64 | 1962. | 0.72 | 3188. | 0.06 |
| 737. | 0.64 | 1963. | 0.72 | 3189. | 0.06 |
| 738. | 0.64 | 1964. | 0.72 | 3190. | 0.06 |
| 739. | 0.64 | 1965. | 0.72 | 3191. | 0.06 |
| 740. | 0.64 | 1966. | 0.72 | 3192. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 741. | 0.64 | 1967. | 0.73 | 3193. | 0.06 |
| 742. | 0.64 | 1968. | 0.72 | 3194. | 0.06 |
| 743. | 0.64 | 1969. | 0.72 | 3195. | 0.06 |
| 744. | 0.64 | 1970. | 0.72 | 3196. | 0.06 |
| 745. | 0.64 | 1971. | 0.72 | 3197. | 0.06 |
| 746. | 0.64 | 1972. | 0.72 | 3198. | 0.06 |
| 747. | 0.64 | 1973. | 0.73 | 3199. | 0.06 |
| 748. | 0.64 | 1974. | 0.72 | 3200. | 0.06 |
| 749. | 0.64 | 1975. | 0.72 | 3201. | 0.06 |
| 750. | 0.64 | 1976. | 0.72 | 3202. | 0.06 |
| 751. | 0.64 | 1977. | 0.72 | 3203. | 0.06 |
| 752. | 0.64 | 1978. | 0.72 | 3204. | 0.06 |
| 753. | 0.64 | 1979. | 0.73 | 3205. | 0.06 |
| 754. | 0.64 | 1980. | 0.73 | 3206. | 0.06 |
| 755. | 0.64 | 1981. | 0.72 | 3207. | 0.06 |
| 756. | 0.64 | 1982. | 0.73 | 3208. | 0.06 |
| 757. | 0.64 | 1983. | 0.72 | 3209. | 0.06 |
| 758. | 0.64 | 1984. | 0.73 | 3210. | 0.06 |
| 759. | 0.64 | 1985. | 0.72 | 3211. | 0.06 |
| 760. | 0.64 | 1986. | 0.72 | 3212. | 0.06 |
| 761. | 0.64 | 1987. | 0.73 | 3213. | 0.06 |
| 762. | 0.64 | 1988. | 0.72 | 3214. | 0.06 |
| 763. | 0.63 | 1989. | 0.72 | 3215. | 0.06 |
| 764. | 0.64 | 1990. | 0.72 | 3216. | 0.06 |
| 765. | 0.64 | 1991. | 0.73 | 3217. | 0.06 |
| 766. | 0.63 | 1992. | 0.73 | 3218. | 0.06 |
| 767. | 0.63 | 1993. | 0.73 | 3219. | 0.06 |
| 768. | 0.64 | 1994. | 0.74 | 3220. | 0.06 |
| 769. | 0.64 | 1995. | 0.72 | 3221. | 0.06 |
| 770. | 0.64 | 1996. | 0.73 | 3222. | 0.06 |
| 771. | 0.63 | 1997. | 0.73 | 3223. | 0.06 |
| 772. | 0.63 | 1998. | 0.73 | 3224. | 0.06 |
| 773. | 0.63 | 1999. | 0.74 | 3225. | 0.06 |
| 774. | 0.63 | 2000. | 0.72 | 3226. | 0.06 |
| 775. | 0.63 | 2001. | 0.56 | 3227. | 0.06 |
| 776. | 0.64 | 2002. | 0.58 | 3228. | 0.06 |
| 777. | 0.63 | 2003. | 0.64 | 3229. | 0.06 |
| 778. | 0.64 | 2004. | 0.67 | 3230. | 0.06 |
| 779. | 0.64 | 2005. | 0.7 | 3231. | 0.06 |
| 780. | 0.64 | 2006. | 0.72 | 3232. | 0.06 |
| 781. | 0.64 | 2007. | 0.75 | 3233. | 0.06 |
| 782. | 0.64 | 2008. | 0.78 | 3234. | 0.06 |
| 783. | 0.64 | 2009. | 0.79 | 3235. | 0.06 |
| 784. | 0.64 | 2010. | 0.82 | 3236. | 0.06 |
| 785. | 0.64 | 2011. | 0.84 | 3237. | 0.06 |
| 786. | 0.64 | 2012. | 0.85 | 3238. | 0.06 |
| 787. | 0.64 | 2013. | 0.88 | 3239. | 0.06 |
| 788. | 0.64 | 2014. | 0.9 | 3240. | 0.06 |
| 789. | 0.65 | 2015. | 0.93 | 3241. | 0.06 |
| 790. | 0.65 | 2016. | 0.96 | 3242. | 0.06 |
| 791. | 0.64 | 2017. | 0.99 | 3243. | 0.06 |
| 792. | 0.65 | 2018. | 1.02 | 3244. | 0.06 |
| 793. | 0.65 | 2019. | 1.04 | 3245. | 0.06 |
| 794. | 0.65 | 2020. | 1. | 3246. | 0.06 |
| 795. | 0.65 | 2021. | 0.99 | 3247. | 0.06 |
| 796. | 0.65 | 2022. | 1. | 3248. | 0.06 |
| 797. | 0.65 | 2023. | 1.03 | 3249. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 798. | 0.65 | 2024. | 1.03 | 3250. | 0.06 |
| 799. | 0.65 | 2025. | 0.99 | 3251. | 0.06 |
| 800. | 0.65 | 2026. | 0.98 | 3252. | 0.06 |
| 801. | 0.65 | 2027. | 0.98 | 3253. | 0.06 |
| 802. | 0.65 | 2028. | 1.01 | 3254. | 0.06 |
| 803. | 0.65 | 2029. | 1.04 | 3255. | 0.06 |
| 804. | 0.65 | 2030. | 1.01 | 3256. | 0.06 |
| 805. | 0.64 | 2031. | 0.96 | 3257. | 0.06 |
| 806. | 0.64 | 2032. | 0.95 | 3258. | 0.06 |
| 807. | 0.65 | 2033. | 0.96 | 3259. | 0.06 |
| 808. | 0.64 | 2034. | 0.98 | 3260. | 0.06 |
| 809. | 0.64 | 2035. | 1.01 | 3261. | 0.06 |
| 810. | 0.64 | 2036. | 1.04 | 3262. | 0.06 |
| 811. | 0.64 | 2037. | 1. | 3263. | 0.06 |
| 812. | 0.64 | 2038. | 0.98 | 3264. | 0.06 |
| 813. | 0.64 | 2039. | 0.97 | 3265. | 0.06 |
| 814. | 0.64 | 2040. | 0.99 | 3266. | 0.06 |
| 815. | 0.64 | 2041. | 1.02 | 3267. | 0.06 |
| 816. | 0.64 | 2042. | 1.04 | 3268. | 0.06 |
| 817. | 0.64 | 2043. | 0.99 | 3269. | 0.06 |
| 818. | 0.64 | 2044. | 0.97 | 3270. | 0.06 |
| 819. | 0.64 | 2045. | 0.97 | 3271. | 0.06 |
| 820. | 0.64 | 2046. | 0.99 | 3272. | 0.06 |
| 821. | 0.64 | 2047. | 1.02 | 3273. | 0.06 |
| 822. | 0.64 | 2048. | 1.03 | 3274. | 0.06 |
| 823. | 0.64 | 2049. | 0.96 | 3275. | 0.06 |
| 824. | 0.64 | 2050. | 0.9 | 3276. | 0.06 |
| 825. | 0.64 | 2051. | 0.87 | 3277. | 0.06 |
| 826. | 0.64 | 2052. | 0.87 | 3278. | 0.06 |
| 827. | 0.65 | 2053. | 0.88 | 3279. | 0.06 |
| 828. | 0.64 | 2054. | 0.91 | 3280. | 0.06 |
| 829. | 0.64 | 2055. | 0.94 | 3281. | 0.06 |
| 830. | 0.64 | 2056. | 0.97 | 3282. | 0.06 |
| 831. | 0.65 | 2057. | 1.01 | 3283. | 0.06 |
| 832. | 0.65 | 2058. | 1.04 | 3284. | 0.06 |
| 833. | 0.64 | 2059. | 1.01 | 3285. | 0.06 |
| 834. | 0.64 | 2060. | 0.96 | 3286. | 0.06 |
| 835. | 0.65 | 2061. | 0.95 | 3287. | 0.06 |
| 836. | 0.65 | 2062. | 0.96 | 3288. | 0.06 |
| 837. | 0.65 | 2063. | 0.99 | 3289. | 0.06 |
| 838. | 0.64 | 2064. | 1.02 | 3290. | 0.06 |
| 839. | 0.64 | 2065. | 1.04 | 3291. | 0.06 |
| 840. | 0.64 | 2066. | 0.99 | 3292. | 0.06 |
| 841. | 0.64 | 2067. | 0.97 | 3293. | 0.06 |
| 842. | 0.65 | 2068. | 0.98 | 3294. | 0.06 |
| 843. | 0.64 | 2069. | 0.99 | 3295. | 0.06 |
| 844. | 0.64 | 2070. | 1.02 | 3296. | 0.06 |
| 845. | 0.64 | 2071. | 1.03 | 3297. | 0.06 |
| 846. | 0.64 | 2072. | 0.98 | 3298. | 0.06 |
| 847. | 0.65 | 2073. | 0.94 | 3299. | 0.06 |
| 848. | 0.64 | 2074. | 0.94 | 3300. | 0.06 |
| 849. | 0.64 | 2075. | 0.95 | 3301. | 0.06 |
| 850. | 0.65 | 2076. | 0.97 | 3302. | 0.06 |
| 851. | 0.65 | 2077. | 1.01 | 3303. | 0.06 |
| 852. | 0.65 | 2078. | 1.04 | 3304. | 0.06 |
| 853. | 0.65 | 2079. | 0.99 | 3305. | 0.06 |
| 854. | 0.65 | 2080. | 0.9 | 3306. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 855. | 0.64 | 2081. | 0.86 | 3307. | 0.06 |
| 856. | 0.64 | 2082. | 0.84 | 3308. | 0.06 |
| 857. | 0.64 | 2083. | 0.85 | 3309. | 0.06 |
| 858. | 0.64 | 2084. | 0.86 | 3310. | 0.06 |
| 859. | 0.64 | 2085. | 0.89 | 3311. | 0.06 |
| 860. | 0.65 | 2086. | 0.92 | 3312. | 0.06 |
| 861. | 0.65 | 2087. | 0.95 | 3313. | 0.06 |
| 862. | 0.64 | 2088. | 0.98 | 3314. | 0.05 |
| 863. | 0.65 | 2089. | 1.02 | 3315. | 0.06 |
| 864. | 0.65 | 2090. | 1.04 | 3316. | 0.06 |
| 865. | 0.65 | 2091. | 0.98 | 3317. | 0.06 |
| 866. | 0.65 | 2092. | 0.94 | 3318. | 0.06 |
| 867. | 0.64 | 2093. | 0.93 | 3319. | 0.06 |
| 868. | 0.65 | 2094. | 0.93 | 3320. | 0.06 |
| 869. | 0.65 | 2095. | 0.96 | 3321. | 0.06 |
| 870. | 0.64 | 2096. | 0.99 | 3322. | 0.06 |
| 871. | 0.65 | 2097. | 1.03 | 3323. | 0.06 |
| 872. | 0.65 | 2098. | 1.03 | 3324. | 0.06 |
| 873. | 0.64 | 2099. | 0.97 | 3325. | 0.06 |
| 874. | 0.64 | 2100. | 0.93 | 3326. | 0.06 |
| 875. | 0.65 | 2101. | 0.93 | 3327. | 0.06 |
| 876. | 0.64 | 2102. | 0.95 | 3328. | 0.06 |
| 877. | 0.64 | 2103. | 0.97 | 3329. | 0.06 |
| 878. | 0.64 | 2104. | 1.01 | 3330. | 0.06 |
| 879. | 0.65 | 2105. | 1.03 | 3331. | 0.06 |
| 880. | 0.64 | 2106. | 1.03 | 3332. | 0.06 |
| 881. | 0.64 | 2107. | 1.01 | 3333. | 0.06 |
| 882. | 0.64 | 2108. | 1.02 | 3334. | 0.06 |
| 883. | 0.64 | 2109. | 1.04 | 3335. | 0.05 |
| 884. | 0.64 | 2110. | 0.99 | 3336. | 0.06 |
| 885. | 0.64 | 2111. | 0.93 | 3337. | 0.06 |
| 886. | 0.64 | 2112. | 0.92 | 3338. | 0.06 |
| 887. | 0.64 | 2113. | 0.92 | 3339. | 0.05 |
| 888. | 0.65 | 2114. | 0.95 | 3340. | 0.06 |
| 889. | 0.64 | 2115. | 0.98 | 3341. | 0.06 |
| 890. | 0.64 | 2116. | 0.8 | 3342. | 0.05 |
| 891. | 0.65 | 2117. | 0.64 | 3343. | 0.05 |
| 892. | 0.64 | 2118. | 0.52 | 3344. | 0.05 |
| 893. | 0.64 | 2119. | 0.46 | 3345. | 0.05 |
| 894. | 0.64 | 2120. | 0.39 | 3346. | 0.05 |
| 895. | 0.65 | 2121. | 0.34 | 3347. | 0.05 |
| 896. | 0.64 | 2122. | 0.29 | 3348. | 0.05 |
| 897. | 0.65 | 2123. | 0.24 | 3349. | 0.05 |
| 898. | 0.64 | 2124. | 0.19 | 3350. | 0.05 |
| 899. | 0.64 | 2125. | 0.14 | 3351. | 0.05 |
| 900. | 0.64 | 2126. | 0.11 | 3352. | 0.05 |
| 901. | 0.64 | 2127. | 0.09 | 3353. | 0.05 |
| 902. | 0.64 | 2128. | 0.07 | 3354. | 0.05 |
| 903. | 0.64 | 2129. | 0.06 | 3355. | 0.05 |
| 904. | 0.64 | 2130. | 0.06 | 3356. | 0.05 |
| 905. | 0.64 | 2131. | 0.07 | 3357. | 0.05 |
| 906. | 0.64 | 2132. | 0.07 | 3358. | 0.05 |
| 907. | 0.64 | 2133. | 0.09 | 3359. | 0.05 |
| 908. | 0.64 | 2134. | 0.1 | 3360. | 0.05 |
| 909. | 0.64 | 2135. | 0.11 | 3361. | 0.05 |
| 910. | 0.64 | 2136. | 0.12 | 3362. | 0.05 |
| 911. | 0.64 | 2137. | 0.13 | 3363. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 912. | 0.64 | 2138. | 0.14 | 3364. | 0.05 |
| 913. | 0.64 | 2139. | 0.14 | 3365. | 0.05 |
| 914. | 0.64 | 2140. | 0.15 | 3366. | 0.05 |
| 915. | 0.64 | 2141. | 0.15 | 3367. | 0.05 |
| 916. | 0.64 | 2142. | 0.16 | 3368. | 0.05 |
| 917. | 0.64 | 2143. | 0.16 | 3369. | 0.05 |
| 918. | 0.64 | 2144. | 0.17 | 3370. | 0.05 |
| 919. | 0.64 | 2145. | 0.17 | 3371. | 0.05 |
| 920. | 0.64 | 2146. | 0.17 | 3372. | 0.05 |
| 921. | 0.64 | 2147. | 0.17 | 3373. | 0.05 |
| 922. | 0.64 | 2148. | 0.18 | 3374. | 0.05 |
| 923. | 0.64 | 2149. | 0.18 | 3375. | 0.05 |
| 924. | 0.64 | 2150. | 0.18 | 3376. | 0.05 |
| 925. | 0.64 | 2151. | 0.18 | 3377. | 0.05 |
| 926. | 0.64 | 2152. | 0.18 | 3378. | 0.05 |
| 927. | 0.64 | 2153. | 0.18 | 3379. | 0.05 |
| 928. | 0.64 | 2154. | 0.18 | 3380. | 0.05 |
| 929. | 0.64 | 2155. | 0.19 | 3381. | 0.05 |
| 930. | 0.64 | 2156. | 0.19 | 3382. | 0.05 |
| 931. | 0.64 | 2157. | 0.19 | 3383. | 0.05 |
| 932. | 0.64 | 2158. | 0.19 | 3384. | 0.05 |
| 933. | 0.64 | 2159. | 0.19 | 3385. | 0.05 |
| 934. | 0.64 | 2160. | 0.19 | 3386. | 0.05 |
| 935. | 0.64 | 2161. | 0.19 | 3387. | 0.05 |
| 936. | 0.64 | 2162. | 0.19 | 3388. | 0.05 |
| 937. | 0.64 | 2163. | 0.19 | 3389. | 0.05 |
| 938. | 0.64 | 2164. | 0.19 | 3390. | 0.05 |
| 939. | 0.64 | 2165. | 0.19 | 3391. | 0.05 |
| 940. | 0.64 | 2166. | 0.19 | 3392. | 0.05 |
| 941. | 0.64 | 2167. | 0.19 | 3393. | 0.05 |
| 942. | 0.64 | 2168. | 0.19 | 3394. | 0.05 |
| 943. | 0.64 | 2169. | 0.19 | 3395. | 0.05 |
| 944. | 0.64 | 2170. | 0.19 | 3396. | 0.05 |
| 945. | 0.64 | 2171. | 0.19 | 3397. | 0.05 |
| 946. | 0.65 | 2172. | 0.18 | 3398. | 0.05 |
| 947. | 0.64 | 2173. | 0.18 | 3399. | 0.05 |
| 948. | 0.65 | 2174. | 0.18 | 3400. | 0.05 |
| 949. | 0.64 | 2175. | 0.18 | 3401. | 0.05 |
| 950. | 0.64 | 2176. | 0.18 | 3402. | 0.05 |
| 951. | 0.64 | 2177. | 0.18 | 3403. | 0.05 |
| 952. | 0.64 | 2178. | 0.18 | 3404. | 0.05 |
| 953. | 0.64 | 2179. | 0.18 | 3405. | 0.05 |
| 954. | 0.65 | 2180. | 0.18 | 3406. | 0.05 |
| 955. | 0.64 | 2181. | 0.18 | 3407. | 0.05 |
| 956. | 0.64 | 2182. | 0.18 | 3408. | 0.05 |
| 957. | 0.64 | 2183. | 0.18 | 3409. | 0.05 |
| 958. | 0.64 | 2184. | 0.18 | 3410. | 0.05 |
| 959. | 0.64 | 2185. | 0.18 | 3411. | 0.05 |
| 960. | 0.64 | 2186. | 0.18 | 3412. | 0.05 |
| 961. | 0.64 | 2187. | 0.18 | 3413. | 0.05 |
| 962. | 0.64 | 2188. | 0.18 | 3414. | 0.05 |
| 963. | 0.64 | 2189. | 0.18 | 3415. | 0.05 |
| 964. | 0.64 | 2190. | 0.18 | 3416. | 0.05 |
| 965. | 0.64 | 2191. | 0.17 | 3417. | 0.05 |
| 966. | 0.64 | 2192. | 0.17 | 3418. | 0.05 |
| 967. | 0.64 | 2193. | 0.17 | 3419. | 0.05 |
| 968. | 0.64 | 2194. | 0.17 | 3420. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 969. | 0.64 | 2195. | 0.17 | 3421. | 0.05 |
| 970. | 0.64 | 2196. | 0.17 | 3422. | 0.05 |
| 971. | 0.64 | 2197. | 0.17 | 3423. | 0.05 |
| 972. | 0.64 | 2198. | 0.17 | 3424. | 0.05 |
| 973. | 0.64 | 2199. | 0.17 | 3425. | 0.05 |
| 974. | 0.64 | 2200. | 0.17 | 3426. | 0.05 |
| 975. | 0.64 | 2201. | 0.17 | 3427. | 0.05 |
| 976. | 0.64 | 2202. | 0.17 | 3428. | 0.05 |
| 977. | 0.64 | 2203. | 0.17 | 3429. | 0.05 |
| 978. | 0.64 | 2204. | 0.17 | 3430. | 0.05 |
| 979. | 0.64 | 2205. | 0.17 | 3431. | 0.05 |
| 980. | 0.64 | 2206. | 0.17 | 3432. | 0.05 |
| 981. | 0.64 | 2207. | 0.17 | 3433. | 0.05 |
| 982. | 0.64 | 2208. | 0.17 | 3434. | 0.05 |
| 983. | 0.65 | 2209. | 0.17 | 3435. | 0.05 |
| 984. | 0.65 | 2210. | 0.17 | 3436. | 0.05 |
| 985. | 0.64 | 2211. | 0.17 | 3437. | 0.05 |
| 986. | 0.65 | 2212. | 0.17 | 3438. | 0.05 |
| 987. | 0.65 | 2213. | 0.17 | 3439. | 0.05 |
| 988. | 0.65 | 2214. | 0.16 | 3440. | 0.05 |
| 989. | 0.65 | 2215. | 0.16 | 3441. | 0.05 |
| 990. | 0.66 | 2216. | 0.16 | 3442. | 0.05 |
| 991. | 0.65 | 2217. | 0.16 | 3443. | 0.05 |
| 992. | 0.65 | 2218. | 0.16 | 3444. | 0.05 |
| 993. | 0.65 | 2219. | 0.16 | 3445. | 0.05 |
| 994. | 0.65 | 2220. | 0.16 | 3446. | 0.05 |
| 995. | 0.66 | 2221. | 0.16 | 3447. | 0.05 |
| 996. | 0.65 | 2222. | 0.16 | 3448. | 0.05 |
| 997. | 0.66 | 2223. | 0.16 | 3449. | 0.05 |
| 998. | 0.66 | 2224. | 0.16 | 3450. | 0.05 |
| 999. | 0.65 | 2225. | 0.16 | 3451. | 0.05 |
| 1000. | 0.66 | 2226. | 0.16 | 3452. | 0.05 |
| 1001. | 0.66 | 2227. | 0.16 | 3453. | 0.05 |
| 1002. | 0.66 | 2228. | 0.16 | 3454. | 0.05 |
| 1003. | 0.66 | 2229. | 0.16 | 3455. | 0.05 |
| 1004. | 0.66 | 2230. | 0.16 | 3456. | 0.05 |
| 1005. | 0.66 | 2231. | 0.16 | 3457. | 0.05 |
| 1006. | 0.66 | 2232. | 0.16 | 3458. | 0.05 |
| 1007. | 0.66 | 2233. | 0.16 | 3459. | 0.05 |
| 1008. | 0.66 | 2234. | 0.16 | 3460. | 0.05 |
| 1009. | 0.66 | 2235. | 0.16 | 3461. | 0.05 |
| 1010. | 0.66 | 2236. | 0.16 | 3462. | 0.05 |
| 1011. | 0.66 | 2237. | 0.16 | 3463. | 0.05 |
| 1012. | 0.66 | 2238. | 0.16 | 3464. | 0.05 |
| 1013. | 0.66 | 2239. | 0.16 | 3465. | 0.05 |
| 1014. | 0.66 | 2240. | 0.15 | 3466. | 0.05 |
| 1015. | 0.66 | 2241. | 0.15 | 3467. | 0.05 |
| 1016. | 0.66 | 2242. | 0.15 | 3468. | 0.05 |
| 1017. | 0.66 | 2243. | 0.15 | 3469. | 0.05 |
| 1018. | 0.66 | 2244. | 0.15 | 3470. | 0.05 |
| 1019. | 0.66 | 2245. | 0.15 | 3471. | 0.05 |
| 1020. | 0.66 | 2246. | 0.15 | 3472. | 0.05 |
| 1021. | 0.66 | 2247. | 0.15 | 3473. | 0.05 |
| 1022. | 0.66 | 2248. | 0.15 | 3474. | 0.05 |
| 1023. | 0.66 | 2249. | 0.15 | 3475. | 0.05 |
| 1024. | 0.66 | 2250. | 0.15 | 3476. | 0.05 |
| 1025. | 0.65 | 2251. | 0.15 | 3477. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1026. | 0.66 | 2252. | 0.15 | 3478. | 0.05 |
| 1027. | 0.66 | 2253. | 0.15 | 3479. | 0.05 |
| 1028. | 0.66 | 2254. | 0.15 | 3480. | 0.05 |
| 1029. | 0.66 | 2255. | 0.15 | 3481. | 0.05 |
| 1030. | 0.66 | 2256. | 0.15 | 3482. | 0.05 |
| 1031. | 0.66 | 2257. | 0.15 | 3483. | 0.05 |
| 1032. | 0.65 | 2258. | 0.15 | 3484. | 0.05 |
| 1033. | 0.66 | 2259. | 0.15 | 3485. | 0.05 |
| 1034. | 0.65 | 2260. | 0.15 | 3486. | 0.05 |
| 1035. | 0.66 | 2261. | 0.15 | 3487. | 0.05 |
| 1036. | 0.66 | 2262. | 0.15 | 3488. | 0.05 |
| 1037. | 0.66 | 2263. | 0.15 | 3489. | 0.05 |
| 1038. | 0.66 | 2264. | 0.15 | 3490. | 0.05 |
| 1039. | 0.66 | 2265. | 0.15 | 3491. | 0.05 |
| 1040. | 0.66 | 2266. | 0.15 | 3492. | 0.05 |
| 1041. | 0.66 | 2267. | 0.15 | 3493. | 0.05 |
| 1042. | 0.66 | 2268. | 0.15 | 3494. | 0.05 |
| 1043. | 0.66 | 2269. | 0.15 | 3495. | 0.05 |
| 1044. | 0.66 | 2270. | 0.15 | 3496. | 0.05 |
| 1045. | 0.65 | 2271. | 0.14 | 3497. | 0.05 |
| 1046. | 0.66 | 2272. | 0.14 | 3498. | 0.05 |
| 1047. | 0.66 | 2273. | 0.14 | 3499. | 0.05 |
| 1048. | 0.66 | 2274. | 0.14 | 3500. | 0.05 |
| 1049. | 0.66 | 2275. | 0.14 | 3501. | 0.05 |
| 1050. | 0.65 | 2276. | 0.14 | 3502. | 0.05 |
| 1051. | 0.66 | 2277. | 0.14 | 3503. | 0.05 |
| 1052. | 0.65 | 2278. | 0.14 | 3504. | 0.05 |
| 1053. | 0.65 | 2279. | 0.14 | 3505. | 0.05 |
| 1054. | 0.66 | 2280. | 0.14 | 3506. | 0.05 |
| 1055. | 0.66 | 2281. | 0.14 | 3507. | 0.05 |
| 1056. | 0.66 | 2282. | 0.14 | 3508. | 0.05 |
| 1057. | 0.66 | 2283. | 0.14 | 3509. | 0.05 |
| 1058. | 0.66 | 2284. | 0.14 | 3510. | 0.05 |
| 1059. | 0.66 | 2285. | 0.14 | 3511. | 0.05 |
| 1060. | 0.66 | 2286. | 0.14 | 3512. | 0.05 |
| 1061. | 0.66 | 2287. | 0.14 | 3513. | 0.05 |
| 1062. | 0.66 | 2288. | 0.14 | 3514. | 0.05 |
| 1063. | 0.66 | 2289. | 0.14 | 3515. | 0.05 |
| 1064. | 0.65 | 2290. | 0.14 | 3516. | 0.05 |
| 1065. | 0.66 | 2291. | 0.14 | 3517. | 0.05 |
| 1066. | 0.66 | 2292. | 0.14 | 3518. | 0.05 |
| 1067. | 0.66 | 2293. | 0.14 | 3519. | 0.05 |
| 1068. | 0.66 | 2294. | 0.14 | 3520. | 0.05 |
| 1069. | 0.65 | 2295. | 0.14 | 3521. | 0.05 |
| 1070. | 0.66 | 2296. | 0.14 | 3522. | 0.05 |
| 1071. | 0.66 | 2297. | 0.14 | 3523. | 0.05 |
| 1072. | 0.66 | 2298. | 0.14 | 3524. | 0.05 |
| 1073. | 0.66 | 2299. | 0.14 | 3525. | 0.05 |
| 1074. | 0.66 | 2300. | 0.14 | 3526. | 0.05 |
| 1075. | 0.66 | 2301. | 0.14 | 3527. | 0.05 |
| 1076. | 0.66 | 2302. | 0.14 | 3528. | 0.05 |
| 1077. | 0.65 | 2303. | 0.14 | 3529. | 0.05 |
| 1078. | 0.66 | 2304. | 0.14 | 3530. | 0.05 |
| 1079. | 0.66 | 2305. | 0.14 | 3531. | 0.05 |
| 1080. | 0.66 | 2306. | 0.14 | 3532. | 0.05 |
| 1081. | 0.66 | 2307. | 0.14 | 3533. | 0.05 |
| 1082. | 0.66 | 2308. | 0.14 | 3534. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1083. | 0.66 | 2309. | 0.13 | 3535. | 0.05 |
| 1084. | 0.66 | 2310. | 0.13 | 3536. | 0.05 |
| 1085. | 0.66 | 2311. | 0.13 | 3537. | 0.05 |
| 1086. | 0.66 | 2312. | 0.13 | 3538. | 0.05 |
| 1087. | 0.67 | 2313. | 0.13 | 3539. | 0.05 |
| 1088. | 0.66 | 2314. | 0.13 | 3540. | 0.05 |
| 1089. | 0.66 | 2315. | 0.13 | 3541. | 0.05 |
| 1090. | 0.66 | 2316. | 0.13 | 3542. | 0.05 |
| 1091. | 0.66 | 2317. | 0.13 | 3543. | 0.05 |
| 1092. | 0.66 | 2318. | 0.13 | 3544. | 0.05 |
| 1093. | 0.66 | 2319. | 0.13 | 3545. | 0.05 |
| 1094. | 0.66 | 2320. | 0.13 | 3546. | 0.05 |
| 1095. | 0.66 | 2321. | 0.13 | 3547. | 0.05 |
| 1096. | 0.66 | 2322. | 0.13 | 3548. | 0.05 |
| 1097. | 0.66 | 2323. | 0.13 | 3549. | 0.05 |
| 1098. | 0.66 | 2324. | 0.13 | 3550. | 0.05 |
| 1099. | 0.65 | 2325. | 0.13 | 3551. | 0.05 |
| 1100. | 0.65 | 2326. | 0.13 | 3552. | 0.05 |
| 1101. | 0.66 | 2327. | 0.13 | 3553. | 0.05 |
| 1102. | 0.66 | 2328. | 0.13 | 3554. | 0.05 |
| 1103. | 0.65 | 2329. | 0.13 | 3555. | 0.05 |
| 1104. | 0.66 | 2330. | 0.13 | 3556. | 0.05 |
| 1105. | 0.65 | 2331. | 0.13 | 3557. | 0.05 |
| 1106. | 0.65 | 2332. | 0.13 | 3558. | 0.05 |
| 1107. | 0.65 | 2333. | 0.13 | 3559. | 0.05 |
| 1108. | 0.66 | 2334. | 0.13 | 3560. | 0.05 |
| 1109. | 0.66 | 2335. | 0.13 | 3561. | 0.05 |
| 1110. | 0.66 | 2336. | 0.13 | 3562. | 0.05 |
| 1111. | 0.65 | 2337. | 0.13 | 3563. | 0.05 |
| 1112. | 0.66 | 2338. | 0.13 | 3564. | 0.05 |
| 1113. | 0.66 | 2339. | 0.13 | 3565. | 0.05 |
| 1114. | 0.66 | 2340. | 0.13 | 3566. | 0.05 |
| 1115. | 0.66 | 2341. | 0.13 | 3567. | 0.05 |
| 1116. | 0.66 | 2342. | 0.13 | 3568. | 0.05 |
| 1117. | 0.66 | 2343. | 0.13 | 3569. | 0.05 |
| 1118. | 0.66 | 2344. | 0.13 | 3570. | 0.05 |
| 1119. | 0.66 | 2345. | 0.13 | 3571. | 0.05 |
| 1120. | 0.66 | 2346. | 0.13 | 3572. | 0.05 |
| 1121. | 0.66 | 2347. | 0.13 | 3573. | 0.05 |
| 1122. | 0.66 | 2348. | 0.13 | 3574. | 0.05 |
| 1123. | 0.66 | 2349. | 0.13 | 3575. | 0.05 |
| 1124. | 0.66 | 2350. | 0.13 | 3576. | 0.05 |
| 1125. | 0.66 | 2351. | 0.13 | 3577. | 0.05 |
| 1126. | 0.66 | 2352. | 0.13 | 3578. | 0.05 |
| 1127. | 0.66 | 2353. | 0.13 | 3579. | 0.05 |
| 1128. | 0.66 | 2354. | 0.12 | 3580. | 0.05 |
| 1129. | 0.66 | 2355. | 0.12 | 3581. | 0.05 |
| 1130. | 0.66 | 2356. | 0.12 | 3582. | 0.05 |
| 1131. | 0.66 | 2357. | 0.12 | 3583. | 0.05 |
| 1132. | 0.66 | 2358. | 0.12 | 3584. | 0.05 |
| 1133. | 0.66 | 2359. | 0.12 | 3585. | 0.05 |
| 1134. | 0.66 | 2360. | 0.12 | 3586. | 0.05 |
| 1135. | 0.66 | 2361. | 0.12 | 3587. | 0.05 |
| 1136. | 0.66 | 2362. | 0.12 | 3588. | 0.05 |
| 1137. | 0.66 | 2363. | 0.12 | 3589. | 0.05 |
| 1138. | 0.66 | 2364. | 0.12 | 3590. | 0.05 |
| 1139. | 0.66 | 2365. | 0.12 | 3591. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1140. | 0.65 | 2366. | 0.12 | 3592. | 0.05 |
| 1141. | 0.66 | 2367. | 0.12 | 3593. | 0.05 |
| 1142. | 0.66 | 2368. | 0.12 | 3594. | 0.05 |
| 1143. | 0.65 | 2369. | 0.12 | 3595. | 0.05 |
| 1144. | 0.66 | 2370. | 0.12 | 3596. | 0.05 |
| 1145. | 0.66 | 2371. | 0.12 | 3597. | 0.05 |
| 1146. | 0.66 | 2372. | 0.12 | 3598. | 0.05 |
| 1147. | 0.66 | 2373. | 0.12 | 3599. | 0.05 |
| 1148. | 0.66 | 2374. | 0.12 | 3600. | 0.05 |
| 1149. | 0.66 | 2375. | 0.12 | 3601. | 0.05 |
| 1150. | 0.66 | 2376. | 0.12 | 3602. | 0.05 |
| 1151. | 0.66 | 2377. | 0.12 | 3603. | 0.05 |
| 1152. | 0.66 | 2378. | 0.12 | 3604. | 0.05 |
| 1153. | 0.66 | 2379. | 0.12 | 3605. | 0.05 |
| 1154. | 0.66 | 2380. | 0.12 | 3606. | 0.05 |
| 1155. | 0.65 | 2381. | 0.12 | 3607. | 0.05 |
| 1156. | 0.66 | 2382. | 0.12 | 3608. | 0.05 |
| 1157. | 0.66 | 2383. | 0.12 | 3609. | 0.05 |
| 1158. | 0.66 | 2384. | 0.12 | 3610. | 0.05 |
| 1159. | 0.66 | 2385. | 0.12 | 3611. | 0.05 |
| 1160. | 0.66 | 2386. | 0.12 | 3612. | 0.05 |
| 1161. | 0.66 | 2387. | 0.12 | 3613. | 0.05 |
| 1162. | 0.66 | 2388. | 0.12 | 3614. | 0.05 |
| 1163. | 0.66 | 2389. | 0.12 | 3615. | 0.05 |
| 1164. | 0.66 | 2390. | 0.12 | 3616. | 0.05 |
| 1165. | 0.66 | 2391. | 0.12 | 3617. | 0.05 |
| 1166. | 0.66 | 2392. | 0.12 | 3618. | 0.05 |
| 1167. | 0.66 | 2393. | 0.12 | 3619. | 0.05 |
| 1168. | 0.66 | 2394. | 0.12 | 3620. | 0.05 |
| 1169. | 0.67 | 2395. | 0.12 | 3621. | 0.05 |
| 1170. | 0.67 | 2396. | 0.12 | 3622. | 0.05 |
| 1171. | 0.67 | 2397. | 0.12 | 3623. | 0.05 |
| 1172. | 0.67 | 2398. | 0.12 | 3624. | 0.05 |
| 1173. | 0.67 | 2399. | 0.12 | 3625. | 0.05 |
| 1174. | 0.67 | 2400. | 0.12 | 3626. | 0.05 |
| 1175. | 0.67 | 2401. | 0.12 | 3627. | 0.05 |
| 1176. | 0.67 | 2402. | 0.12 | 3628. | 0.05 |
| 1177. | 0.67 | 2403. | 0.12 | 3629. | 0.05 |
| 1178. | 0.68 | 2404. | 0.12 | 3630. | 0.05 |
| 1179. | 0.67 | 2405. | 0.12 | 3631. | 0.05 |
| 1180. | 0.67 | 2406. | 0.12 | 3632. | 0.05 |
| 1181. | 0.68 | 2407. | 0.12 | 3633. | 0.05 |
| 1182. | 0.68 | 2408. | 0.12 | 3634. | 0.05 |
| 1183. | 0.68 | 2409. | 0.12 | 3635. | 0.05 |
| 1184. | 0.68 | 2410. | 0.12 | 3636. | 0.05 |
| 1185. | 0.68 | 2411. | 0.12 | 3637. | 0.05 |
| 1186. | 0.68 | 2412. | 0.12 | 3638. | 0.05 |
| 1187. | 0.68 | 2413. | 0.12 | 3639. | 0.05 |
| 1188. | 0.68 | 2414. | 0.11 | 3640. | 0.05 |
| 1189. | 0.68 | 2415. | 0.11 | 3641. | 0.05 |
| 1190. | 0.68 | 2416. | 0.11 | 3642. | 0.05 |
| 1191. | 0.68 | 2417. | 0.11 | 3643. | 0.05 |
| 1192. | 0.68 | 2418. | 0.11 | 3644. | 0.05 |
| 1193. | 0.68 | 2419. | 0.11 | 3645. | 0.05 |
| 1194. | 0.68 | 2420. | 0.11 | 3646. | 0.05 |
| 1195. | 0.68 | 2421. | 0.11 | 3647. | 0.05 |
| 1196. | 0.68 | 2422. | 0.11 | 3648. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1197. | 0.68 | 2423. | 0.11 | 3649. | 0.05 |
| 1198. | 0.68 | 2424. | 0.11 | 3650. | 0.05 |
| 1199. | 0.68 | 2425. | 0.11 | 3651. | 0.05 |
| 1200. | 0.68 | 2426. | 0.11 | 3652. | 0.05 |
| 1201. | 0.68 | 2427. | 0.11 | 3653. | 0.05 |
| 1202. | 0.68 | 2428. | 0.11 | 3654. | 0.05 |
| 1203. | 0.68 | 2429. | 0.11 | 3655. | 0.05 |
| 1204. | 0.68 | 2430. | 0.11 | 3656. | 0.05 |
| 1205. | 0.68 | 2431. | 0.11 | 3657. | 0.05 |
| 1206. | 0.68 | 2432. | 0.11 | 3658. | 0.05 |
| 1207. | 0.68 | 2433. | 0.11 | 3659. | 0.05 |
| 1208. | 0.68 | 2434. | 0.11 | 3660. | 0.05 |
| 1209. | 0.68 | 2435. | 0.11 | 3661. | 0.05 |
| 1210. | 0.68 | 2436. | 0.11 | 3662. | 0.05 |
| 1211. | 0.68 | 2437. | 0.11 | 3663. | 0.05 |
| 1212. | 0.68 | 2438. | 0.11 | 3664. | 0.05 |
| 1213. | 0.68 | 2439. | 0.11 | 3665. | 0.05 |
| 1214. | 0.68 | 2440. | 0.11 | 3666. | 0.05 |
| 1215. | 0.68 | 2441. | 0.11 | 3667. | 0.05 |
| 1216. | 0.68 | 2442. | 0.11 | 3668. | 0.05 |
| 1217. | 0.68 | 2443. | 0.11 | 3669. | 0.05 |
| 1218. | 0.68 | 2444. | 0.11 | 3670. | 0.05 |
| 1219. | 0.68 | 2445. | 0.11 | 3671. | 0.05 |
| 1220. | 0.68 | 2446. | 0.11 | 3672. | 0.05 |
| 1221. | 0.68 | 2447. | 0.11 | 3673. | 0.05 |
| 1222. | 0.68 | 2448. | 0.11 | 3674. | 0.05 |
| 1223. | 0.68 | 2449. | 0.11 | 3675. | 0.05 |
| 1224. | 0.68 | 2450. | 0.11 | 3676. | 0.05 |
| 1225. | 0.69 | 2451. | 0.11 | 3677. | 0.05 |
| 1226. | 0.68 | 2452. | 0.11 | 3678. | 0.05 |

Observation Well No. 2: MW23-02

X Location: 27. m

Y Location: 13. m

Radial distance from MW23-04: 15.8113883 m

Fully Penetrating Well

No. of Observations: 3678

| <u>Observation Data</u> | | | | | |
|-------------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
| 1. | 0.01 | 1227. | 0.68 | 2453. | 0.11 |
| 2. | 0.03 | 1228. | 0.68 | 2454. | 0.11 |
| 3. | 0.05 | 1229. | 0.68 | 2455. | 0.11 |
| 4. | 0.1 | 1230. | 0.68 | 2456. | 0.11 |
| 5. | 0.14 | 1231. | 0.68 | 2457. | 0.11 |
| 6. | 0.17 | 1232. | 0.68 | 2458. | 0.11 |
| 7. | 0.13 | 1233. | 0.68 | 2459. | 0.11 |
| 8. | 0.14 | 1234. | 0.69 | 2460. | 0.11 |
| 9. | 0.14 | 1235. | 0.69 | 2461. | 0.11 |
| 10. | 0.15 | 1236. | 0.68 | 2462. | 0.11 |
| 11. | 0.16 | 1237. | 0.69 | 2463. | 0.11 |
| 12. | 0.17 | 1238. | 0.68 | 2464. | 0.11 |
| 13. | 0.18 | 1239. | 0.69 | 2465. | 0.11 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 14. | 0.19 | 1240. | 0.69 | 2466. | 0.11 |
| 15. | 0.2 | 1241. | 0.68 | 2467. | 0.11 |
| 16. | 0.2 | 1242. | 0.69 | 2468. | 0.11 |
| 17. | 0.21 | 1243. | 0.68 | 2469. | 0.11 |
| 18. | 0.21 | 1244. | 0.69 | 2470. | 0.11 |
| 19. | 0.23 | 1245. | 0.68 | 2471. | 0.11 |
| 20. | 0.23 | 1246. | 0.69 | 2472. | 0.11 |
| 21. | 0.23 | 1247. | 0.69 | 2473. | 0.11 |
| 22. | 0.24 | 1248. | 0.68 | 2474. | 0.11 |
| 23. | 0.25 | 1249. | 0.69 | 2475. | 0.11 |
| 24. | 0.25 | 1250. | 0.69 | 2476. | 0.11 |
| 25. | 0.25 | 1251. | 0.69 | 2477. | 0.11 |
| 26. | 0.26 | 1252. | 0.68 | 2478. | 0.11 |
| 27. | 0.27 | 1253. | 0.68 | 2479. | 0.11 |
| 28. | 0.27 | 1254. | 0.68 | 2480. | 0.11 |
| 29. | 0.28 | 1255. | 0.69 | 2481. | 0.11 |
| 30. | 0.28 | 1256. | 0.69 | 2482. | 0.11 |
| 31. | 0.29 | 1257. | 0.68 | 2483. | 0.11 |
| 32. | 0.29 | 1258. | 0.69 | 2484. | 0.1 |
| 33. | 0.29 | 1259. | 0.69 | 2485. | 0.1 |
| 34. | 0.3 | 1260. | 0.69 | 2486. | 0.1 |
| 35. | 0.3 | 1261. | 0.69 | 2487. | 0.1 |
| 36. | 0.31 | 1262. | 0.69 | 2488. | 0.1 |
| 37. | 0.31 | 1263. | 0.69 | 2489. | 0.1 |
| 38. | 0.31 | 1264. | 0.68 | 2490. | 0.1 |
| 39. | 0.31 | 1265. | 0.69 | 2491. | 0.1 |
| 40. | 0.32 | 1266. | 0.69 | 2492. | 0.1 |
| 41. | 0.32 | 1267. | 0.68 | 2493. | 0.1 |
| 42. | 0.32 | 1268. | 0.68 | 2494. | 0.1 |
| 43. | 0.33 | 1269. | 0.68 | 2495. | 0.1 |
| 44. | 0.33 | 1270. | 0.68 | 2496. | 0.1 |
| 45. | 0.33 | 1271. | 0.69 | 2497. | 0.1 |
| 46. | 0.33 | 1272. | 0.68 | 2498. | 0.1 |
| 47. | 0.34 | 1273. | 0.69 | 2499. | 0.1 |
| 48. | 0.34 | 1274. | 0.69 | 2500. | 0.1 |
| 49. | 0.35 | 1275. | 0.68 | 2501. | 0.1 |
| 50. | 0.35 | 1276. | 0.68 | 2502. | 0.1 |
| 51. | 0.35 | 1277. | 0.69 | 2503. | 0.1 |
| 52. | 0.35 | 1278. | 0.69 | 2504. | 0.1 |
| 53. | 0.35 | 1279. | 0.68 | 2505. | 0.1 |
| 54. | 0.36 | 1280. | 0.68 | 2506. | 0.1 |
| 55. | 0.35 | 1281. | 0.68 | 2507. | 0.1 |
| 56. | 0.36 | 1282. | 0.68 | 2508. | 0.1 |
| 57. | 0.36 | 1283. | 0.68 | 2509. | 0.1 |
| 58. | 0.37 | 1284. | 0.68 | 2510. | 0.1 |
| 59. | 0.37 | 1285. | 0.69 | 2511. | 0.1 |
| 60. | 0.37 | 1286. | 0.68 | 2512. | 0.1 |
| 61. | 0.37 | 1287. | 0.69 | 2513. | 0.1 |
| 62. | 0.37 | 1288. | 0.68 | 2514. | 0.1 |
| 63. | 0.37 | 1289. | 0.68 | 2515. | 0.1 |
| 64. | 0.37 | 1290. | 0.68 | 2516. | 0.1 |
| 65. | 0.38 | 1291. | 0.68 | 2517. | 0.1 |
| 66. | 0.37 | 1292. | 0.69 | 2518. | 0.1 |
| 67. | 0.38 | 1293. | 0.68 | 2519. | 0.1 |
| 68. | 0.38 | 1294. | 0.69 | 2520. | 0.1 |
| 69. | 0.38 | 1295. | 0.69 | 2521. | 0.1 |
| 70. | 0.38 | 1296. | 0.68 | 2522. | 0.1 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 71. | 0.38 | 1297. | 0.68 | 2523. | 0.1 |
| 72. | 0.38 | 1298. | 0.68 | 2524. | 0.1 |
| 73. | 0.39 | 1299. | 0.69 | 2525. | 0.1 |
| 74. | 0.39 | 1300. | 0.68 | 2526. | 0.1 |
| 75. | 0.39 | 1301. | 0.68 | 2527. | 0.1 |
| 76. | 0.39 | 1302. | 0.68 | 2528. | 0.1 |
| 77. | 0.39 | 1303. | 0.68 | 2529. | 0.1 |
| 78. | 0.39 | 1304. | 0.69 | 2530. | 0.1 |
| 79. | 0.39 | 1305. | 0.68 | 2531. | 0.1 |
| 80. | 0.4 | 1306. | 0.68 | 2532. | 0.1 |
| 81. | 0.4 | 1307. | 0.68 | 2533. | 0.1 |
| 82. | 0.4 | 1308. | 0.68 | 2534. | 0.1 |
| 83. | 0.41 | 1309. | 0.68 | 2535. | 0.1 |
| 84. | 0.41 | 1310. | 0.68 | 2536. | 0.1 |
| 85. | 0.41 | 1311. | 0.69 | 2537. | 0.1 |
| 86. | 0.41 | 1312. | 0.69 | 2538. | 0.1 |
| 87. | 0.41 | 1313. | 0.68 | 2539. | 0.1 |
| 88. | 0.41 | 1314. | 0.68 | 2540. | 0.1 |
| 89. | 0.41 | 1315. | 0.68 | 2541. | 0.1 |
| 90. | 0.41 | 1316. | 0.69 | 2542. | 0.1 |
| 91. | 0.42 | 1317. | 0.68 | 2543. | 0.1 |
| 92. | 0.41 | 1318. | 0.69 | 2544. | 0.1 |
| 93. | 0.42 | 1319. | 0.69 | 2545. | 0.1 |
| 94. | 0.42 | 1320. | 0.69 | 2546. | 0.1 |
| 95. | 0.42 | 1321. | 0.69 | 2547. | 0.1 |
| 96. | 0.42 | 1322. | 0.69 | 2548. | 0.1 |
| 97. | 0.42 | 1323. | 0.69 | 2549. | 0.1 |
| 98. | 0.43 | 1324. | 0.69 | 2550. | 0.1 |
| 99. | 0.42 | 1325. | 0.69 | 2551. | 0.1 |
| 100. | 0.43 | 1326. | 0.68 | 2552. | 0.1 |
| 101. | 0.43 | 1327. | 0.68 | 2553. | 0.1 |
| 102. | 0.43 | 1328. | 0.69 | 2554. | 0.1 |
| 103. | 0.43 | 1329. | 0.68 | 2555. | 0.1 |
| 104. | 0.43 | 1330. | 0.69 | 2556. | 0.1 |
| 105. | 0.44 | 1331. | 0.69 | 2557. | 0.1 |
| 106. | 0.43 | 1332. | 0.69 | 2558. | 0.1 |
| 107. | 0.43 | 1333. | 0.69 | 2559. | 0.1 |
| 108. | 0.44 | 1334. | 0.68 | 2560. | 0.1 |
| 109. | 0.43 | 1335. | 0.68 | 2561. | 0.1 |
| 110. | 0.44 | 1336. | 0.68 | 2562. | 0.1 |
| 111. | 0.44 | 1337. | 0.69 | 2563. | 0.1 |
| 112. | 0.44 | 1338. | 0.69 | 2564. | 0.1 |
| 113. | 0.44 | 1339. | 0.68 | 2565. | 0.1 |
| 114. | 0.44 | 1340. | 0.69 | 2566. | 0.1 |
| 115. | 0.44 | 1341. | 0.69 | 2567. | 0.1 |
| 116. | 0.44 | 1342. | 0.69 | 2568. | 0.09 |
| 117. | 0.44 | 1343. | 0.68 | 2569. | 0.09 |
| 118. | 0.45 | 1344. | 0.68 | 2570. | 0.09 |
| 119. | 0.44 | 1345. | 0.68 | 2571. | 0.09 |
| 120. | 0.45 | 1346. | 0.68 | 2572. | 0.09 |
| 121. | 0.45 | 1347. | 0.68 | 2573. | 0.09 |
| 122. | 0.45 | 1348. | 0.68 | 2574. | 0.09 |
| 123. | 0.45 | 1349. | 0.69 | 2575. | 0.09 |
| 124. | 0.45 | 1350. | 0.68 | 2576. | 0.09 |
| 125. | 0.45 | 1351. | 0.68 | 2577. | 0.09 |
| 126. | 0.45 | 1352. | 0.68 | 2578. | 0.09 |
| 127. | 0.45 | 1353. | 0.68 | 2579. | 0.09 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 128. | 0.46 | 1354. | 0.68 | 2580. | 0.09 |
| 129. | 0.45 | 1355. | 0.68 | 2581. | 0.09 |
| 130. | 0.46 | 1356. | 0.66 | 2582. | 0.09 |
| 131. | 0.46 | 1357. | 0.68 | 2583. | 0.09 |
| 132. | 0.46 | 1358. | 0.68 | 2584. | 0.09 |
| 133. | 0.45 | 1359. | 0.68 | 2585. | 0.09 |
| 134. | 0.46 | 1360. | 0.69 | 2586. | 0.09 |
| 135. | 0.46 | 1361. | 0.69 | 2587. | 0.09 |
| 136. | 0.46 | 1362. | 0.69 | 2588. | 0.09 |
| 137. | 0.46 | 1363. | 0.69 | 2589. | 0.09 |
| 138. | 0.46 | 1364. | 0.69 | 2590. | 0.09 |
| 139. | 0.46 | 1365. | 0.7 | 2591. | 0.09 |
| 140. | 0.46 | 1366. | 0.69 | 2592. | 0.09 |
| 141. | 0.47 | 1367. | 0.69 | 2593. | 0.09 |
| 142. | 0.46 | 1368. | 0.69 | 2594. | 0.09 |
| 143. | 0.46 | 1369. | 0.7 | 2595. | 0.09 |
| 144. | 0.46 | 1370. | 0.7 | 2596. | 0.09 |
| 145. | 0.46 | 1371. | 0.7 | 2597. | 0.09 |
| 146. | 0.46 | 1372. | 0.7 | 2598. | 0.09 |
| 147. | 0.47 | 1373. | 0.7 | 2599. | 0.09 |
| 148. | 0.47 | 1374. | 0.7 | 2600. | 0.09 |
| 149. | 0.47 | 1375. | 0.7 | 2601. | 0.09 |
| 150. | 0.47 | 1376. | 0.7 | 2602. | 0.09 |
| 151. | 0.47 | 1377. | 0.71 | 2603. | 0.09 |
| 152. | 0.47 | 1378. | 0.7 | 2604. | 0.09 |
| 153. | 0.47 | 1379. | 0.7 | 2605. | 0.09 |
| 154. | 0.48 | 1380. | 0.7 | 2606. | 0.09 |
| 155. | 0.48 | 1381. | 0.7 | 2607. | 0.09 |
| 156. | 0.47 | 1382. | 0.7 | 2608. | 0.09 |
| 157. | 0.47 | 1383. | 0.7 | 2609. | 0.09 |
| 158. | 0.47 | 1384. | 0.7 | 2610. | 0.09 |
| 159. | 0.47 | 1385. | 0.7 | 2611. | 0.09 |
| 160. | 0.47 | 1386. | 0.7 | 2612. | 0.09 |
| 161. | 0.47 | 1387. | 0.7 | 2613. | 0.09 |
| 162. | 0.47 | 1388. | 0.7 | 2614. | 0.09 |
| 163. | 0.47 | 1389. | 0.7 | 2615. | 0.09 |
| 164. | 0.48 | 1390. | 0.71 | 2616. | 0.09 |
| 165. | 0.48 | 1391. | 0.7 | 2617. | 0.09 |
| 166. | 0.48 | 1392. | 0.7 | 2618. | 0.09 |
| 167. | 0.48 | 1393. | 0.7 | 2619. | 0.09 |
| 168. | 0.48 | 1394. | 0.71 | 2620. | 0.09 |
| 169. | 0.48 | 1395. | 0.71 | 2621. | 0.09 |
| 170. | 0.48 | 1396. | 0.71 | 2622. | 0.09 |
| 171. | 0.48 | 1397. | 0.71 | 2623. | 0.09 |
| 172. | 0.48 | 1398. | 0.7 | 2624. | 0.09 |
| 173. | 0.47 | 1399. | 0.7 | 2625. | 0.09 |
| 174. | 0.48 | 1400. | 0.71 | 2626. | 0.09 |
| 175. | 0.48 | 1401. | 0.7 | 2627. | 0.09 |
| 176. | 0.48 | 1402. | 0.71 | 2628. | 0.09 |
| 177. | 0.48 | 1403. | 0.7 | 2629. | 0.09 |
| 178. | 0.48 | 1404. | 0.7 | 2630. | 0.09 |
| 179. | 0.48 | 1405. | 0.7 | 2631. | 0.09 |
| 180. | 0.48 | 1406. | 0.71 | 2632. | 0.09 |
| 181. | 0.48 | 1407. | 0.71 | 2633. | 0.09 |
| 182. | 0.48 | 1408. | 0.71 | 2634. | 0.09 |
| 183. | 0.48 | 1409. | 0.7 | 2635. | 0.09 |
| 184. | 0.48 | 1410. | 0.7 | 2636. | 0.09 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 185. | 0.48 | 1411. | 0.71 | 2637. | 0.09 |
| 186. | 0.48 | 1412. | 0.7 | 2638. | 0.09 |
| 187. | 0.48 | 1413. | 0.7 | 2639. | 0.09 |
| 188. | 0.49 | 1414. | 0.71 | 2640. | 0.09 |
| 189. | 0.49 | 1415. | 0.7 | 2641. | 0.09 |
| 190. | 0.49 | 1416. | 0.7 | 2642. | 0.09 |
| 191. | 0.49 | 1417. | 0.71 | 2643. | 0.09 |
| 192. | 0.49 | 1418. | 0.71 | 2644. | 0.09 |
| 193. | 0.48 | 1419. | 0.7 | 2645. | 0.09 |
| 194. | 0.48 | 1420. | 0.7 | 2646. | 0.09 |
| 195. | 0.49 | 1421. | 0.7 | 2647. | 0.09 |
| 196. | 0.49 | 1422. | 0.71 | 2648. | 0.09 |
| 197. | 0.48 | 1423. | 0.7 | 2649. | 0.09 |
| 198. | 0.49 | 1424. | 0.7 | 2650. | 0.09 |
| 199. | 0.49 | 1425. | 0.7 | 2651. | 0.09 |
| 200. | 0.49 | 1426. | 0.7 | 2652. | 0.09 |
| 201. | 0.49 | 1427. | 0.7 | 2653. | 0.09 |
| 202. | 0.49 | 1428. | 0.7 | 2654. | 0.09 |
| 203. | 0.5 | 1429. | 0.71 | 2655. | 0.09 |
| 204. | 0.5 | 1430. | 0.71 | 2656. | 0.09 |
| 205. | 0.49 | 1431. | 0.7 | 2657. | 0.09 |
| 206. | 0.5 | 1432. | 0.7 | 2658. | 0.09 |
| 207. | 0.5 | 1433. | 0.7 | 2659. | 0.09 |
| 208. | 0.5 | 1434. | 0.71 | 2660. | 0.09 |
| 209. | 0.5 | 1435. | 0.7 | 2661. | 0.09 |
| 210. | 0.5 | 1436. | 0.71 | 2662. | 0.09 |
| 211. | 0.5 | 1437. | 0.71 | 2663. | 0.09 |
| 212. | 0.5 | 1438. | 0.7 | 2664. | 0.09 |
| 213. | 0.5 | 1439. | 0.71 | 2665. | 0.09 |
| 214. | 0.51 | 1440. | 0.7 | 2666. | 0.09 |
| 215. | 0.5 | 1441. | 0.7 | 2667. | 0.09 |
| 216. | 0.51 | 1442. | 0.7 | 2668. | 0.09 |
| 217. | 0.51 | 1443. | 0.7 | 2669. | 0.09 |
| 218. | 0.51 | 1444. | 0.7 | 2670. | 0.09 |
| 219. | 0.51 | 1445. | 0.7 | 2671. | 0.09 |
| 220. | 0.51 | 1446. | 0.7 | 2672. | 0.09 |
| 221. | 0.51 | 1447. | 0.7 | 2673. | 0.09 |
| 222. | 0.51 | 1448. | 0.7 | 2674. | 0.09 |
| 223. | 0.52 | 1449. | 0.7 | 2675. | 0.09 |
| 224. | 0.51 | 1450. | 0.7 | 2676. | 0.09 |
| 225. | 0.51 | 1451. | 0.7 | 2677. | 0.09 |
| 226. | 0.51 | 1452. | 0.7 | 2678. | 0.09 |
| 227. | 0.51 | 1453. | 0.71 | 2679. | 0.09 |
| 228. | 0.52 | 1454. | 0.71 | 2680. | 0.09 |
| 229. | 0.51 | 1455. | 0.71 | 2681. | 0.09 |
| 230. | 0.51 | 1456. | 0.7 | 2682. | 0.09 |
| 231. | 0.51 | 1457. | 0.7 | 2683. | 0.09 |
| 232. | 0.52 | 1458. | 0.7 | 2684. | 0.09 |
| 233. | 0.52 | 1459. | 0.7 | 2685. | 0.09 |
| 234. | 0.51 | 1460. | 0.7 | 2686. | 0.09 |
| 235. | 0.52 | 1461. | 0.7 | 2687. | 0.09 |
| 236. | 0.52 | 1462. | 0.71 | 2688. | 0.08 |
| 237. | 0.52 | 1463. | 0.7 | 2689. | 0.09 |
| 238. | 0.52 | 1464. | 0.7 | 2690. | 0.08 |
| 239. | 0.52 | 1465. | 0.7 | 2691. | 0.08 |
| 240. | 0.52 | 1466. | 0.71 | 2692. | 0.08 |
| 241. | 0.52 | 1467. | 0.7 | 2693. | 0.08 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 242. | 0.52 | 1468. | 0.71 | 2694. | 0.08 |
| 243. | 0.52 | 1469. | 0.71 | 2695. | 0.08 |
| 244. | 0.52 | 1470. | 0.7 | 2696. | 0.08 |
| 245. | 0.52 | 1471. | 0.71 | 2697. | 0.08 |
| 246. | 0.52 | 1472. | 0.71 | 2698. | 0.08 |
| 247. | 0.52 | 1473. | 0.7 | 2699. | 0.08 |
| 248. | 0.52 | 1474. | 0.7 | 2700. | 0.08 |
| 249. | 0.52 | 1475. | 0.71 | 2701. | 0.08 |
| 250. | 0.52 | 1476. | 0.71 | 2702. | 0.08 |
| 251. | 0.52 | 1477. | 0.7 | 2703. | 0.08 |
| 252. | 0.52 | 1478. | 0.7 | 2704. | 0.08 |
| 253. | 0.52 | 1479. | 0.7 | 2705. | 0.08 |
| 254. | 0.52 | 1480. | 0.7 | 2706. | 0.08 |
| 255. | 0.53 | 1481. | 0.71 | 2707. | 0.08 |
| 256. | 0.52 | 1482. | 0.7 | 2708. | 0.08 |
| 257. | 0.53 | 1483. | 0.7 | 2709. | 0.08 |
| 258. | 0.52 | 1484. | 0.7 | 2710. | 0.08 |
| 259. | 0.53 | 1485. | 0.7 | 2711. | 0.08 |
| 260. | 0.53 | 1486. | 0.7 | 2712. | 0.08 |
| 261. | 0.52 | 1487. | 0.7 | 2713. | 0.08 |
| 262. | 0.53 | 1488. | 0.7 | 2714. | 0.08 |
| 263. | 0.53 | 1489. | 0.7 | 2715. | 0.08 |
| 264. | 0.53 | 1490. | 0.7 | 2716. | 0.08 |
| 265. | 0.52 | 1491. | 0.7 | 2717. | 0.08 |
| 266. | 0.53 | 1492. | 0.71 | 2718. | 0.08 |
| 267. | 0.53 | 1493. | 0.7 | 2719. | 0.08 |
| 268. | 0.53 | 1494. | 0.7 | 2720. | 0.08 |
| 269. | 0.53 | 1495. | 0.7 | 2721. | 0.08 |
| 270. | 0.53 | 1496. | 0.7 | 2722. | 0.08 |
| 271. | 0.52 | 1497. | 0.71 | 2723. | 0.08 |
| 272. | 0.52 | 1498. | 0.71 | 2724. | 0.08 |
| 273. | 0.52 | 1499. | 0.7 | 2725. | 0.08 |
| 274. | 0.53 | 1500. | 0.71 | 2726. | 0.08 |
| 275. | 0.53 | 1501. | 0.71 | 2727. | 0.08 |
| 276. | 0.53 | 1502. | 0.71 | 2728. | 0.08 |
| 277. | 0.53 | 1503. | 0.71 | 2729. | 0.08 |
| 278. | 0.53 | 1504. | 0.71 | 2730. | 0.08 |
| 279. | 0.53 | 1505. | 0.71 | 2731. | 0.08 |
| 280. | 0.53 | 1506. | 0.7 | 2732. | 0.08 |
| 281. | 0.53 | 1507. | 0.71 | 2733. | 0.08 |
| 282. | 0.53 | 1508. | 0.71 | 2734. | 0.08 |
| 283. | 0.53 | 1509. | 0.71 | 2735. | 0.08 |
| 284. | 0.53 | 1510. | 0.71 | 2736. | 0.08 |
| 285. | 0.53 | 1511. | 0.7 | 2737. | 0.08 |
| 286. | 0.53 | 1512. | 0.7 | 2738. | 0.08 |
| 287. | 0.53 | 1513. | 0.71 | 2739. | 0.08 |
| 288. | 0.53 | 1514. | 0.71 | 2740. | 0.08 |
| 289. | 0.53 | 1515. | 0.71 | 2741. | 0.08 |
| 290. | 0.53 | 1516. | 0.71 | 2742. | 0.08 |
| 291. | 0.53 | 1517. | 0.7 | 2743. | 0.08 |
| 292. | 0.54 | 1518. | 0.7 | 2744. | 0.08 |
| 293. | 0.54 | 1519. | 0.71 | 2745. | 0.08 |
| 294. | 0.53 | 1520. | 0.7 | 2746. | 0.08 |
| 295. | 0.53 | 1521. | 0.71 | 2747. | 0.08 |
| 296. | 0.53 | 1522. | 0.71 | 2748. | 0.08 |
| 297. | 0.53 | 1523. | 0.7 | 2749. | 0.08 |
| 298. | 0.53 | 1524. | 0.7 | 2750. | 0.08 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 299. | 0.53 | 1525. | 0.7 | 2751. | 0.08 |
| 300. | 0.54 | 1526. | 0.7 | 2752. | 0.08 |
| 301. | 0.53 | 1527. | 0.7 | 2753. | 0.08 |
| 302. | 0.54 | 1528. | 0.7 | 2754. | 0.08 |
| 303. | 0.54 | 1529. | 0.7 | 2755. | 0.08 |
| 304. | 0.54 | 1530. | 0.7 | 2756. | 0.08 |
| 305. | 0.54 | 1531. | 0.7 | 2757. | 0.08 |
| 306. | 0.53 | 1532. | 0.7 | 2758. | 0.08 |
| 307. | 0.54 | 1533. | 0.7 | 2759. | 0.08 |
| 308. | 0.54 | 1534. | 0.7 | 2760. | 0.08 |
| 309. | 0.54 | 1535. | 0.7 | 2761. | 0.08 |
| 310. | 0.53 | 1536. | 0.71 | 2762. | 0.08 |
| 311. | 0.54 | 1537. | 0.7 | 2763. | 0.08 |
| 312. | 0.54 | 1538. | 0.7 | 2764. | 0.08 |
| 313. | 0.53 | 1539. | 0.7 | 2765. | 0.08 |
| 314. | 0.54 | 1540. | 0.71 | 2766. | 0.08 |
| 315. | 0.54 | 1541. | 0.71 | 2767. | 0.08 |
| 316. | 0.54 | 1542. | 0.71 | 2768. | 0.08 |
| 317. | 0.53 | 1543. | 0.71 | 2769. | 0.08 |
| 318. | 0.53 | 1544. | 0.71 | 2770. | 0.08 |
| 319. | 0.54 | 1545. | 0.71 | 2771. | 0.08 |
| 320. | 0.53 | 1546. | 0.71 | 2772. | 0.08 |
| 321. | 0.53 | 1547. | 0.71 | 2773. | 0.08 |
| 322. | 0.54 | 1548. | 0.71 | 2774. | 0.08 |
| 323. | 0.54 | 1549. | 0.71 | 2775. | 0.08 |
| 324. | 0.54 | 1550. | 0.71 | 2776. | 0.08 |
| 325. | 0.54 | 1551. | 0.71 | 2777. | 0.08 |
| 326. | 0.54 | 1552. | 0.71 | 2778. | 0.08 |
| 327. | 0.53 | 1553. | 0.71 | 2779. | 0.08 |
| 328. | 0.54 | 1554. | 0.71 | 2780. | 0.08 |
| 329. | 0.54 | 1555. | 0.71 | 2781. | 0.08 |
| 330. | 0.54 | 1556. | 0.71 | 2782. | 0.08 |
| 331. | 0.54 | 1557. | 0.71 | 2783. | 0.08 |
| 332. | 0.54 | 1558. | 0.71 | 2784. | 0.08 |
| 333. | 0.53 | 1559. | 0.71 | 2785. | 0.08 |
| 334. | 0.54 | 1560. | 0.71 | 2786. | 0.08 |
| 335. | 0.54 | 1561. | 0.71 | 2787. | 0.08 |
| 336. | 0.54 | 1562. | 0.71 | 2788. | 0.08 |
| 337. | 0.53 | 1563. | 0.71 | 2789. | 0.08 |
| 338. | 0.54 | 1564. | 0.71 | 2790. | 0.08 |
| 339. | 0.54 | 1565. | 0.72 | 2791. | 0.08 |
| 340. | 0.54 | 1566. | 0.71 | 2792. | 0.08 |
| 341. | 0.54 | 1567. | 0.72 | 2793. | 0.08 |
| 342. | 0.54 | 1568. | 0.72 | 2794. | 0.08 |
| 343. | 0.54 | 1569. | 0.72 | 2795. | 0.08 |
| 344. | 0.54 | 1570. | 0.71 | 2796. | 0.08 |
| 345. | 0.54 | 1571. | 0.72 | 2797. | 0.08 |
| 346. | 0.54 | 1572. | 0.71 | 2798. | 0.08 |
| 347. | 0.54 | 1573. | 0.71 | 2799. | 0.08 |
| 348. | 0.54 | 1574. | 0.71 | 2800. | 0.08 |
| 349. | 0.54 | 1575. | 0.71 | 2801. | 0.08 |
| 350. | 0.54 | 1576. | 0.72 | 2802. | 0.08 |
| 351. | 0.54 | 1577. | 0.72 | 2803. | 0.08 |
| 352. | 0.54 | 1578. | 0.72 | 2804. | 0.08 |
| 353. | 0.54 | 1579. | 0.71 | 2805. | 0.08 |
| 354. | 0.54 | 1580. | 0.72 | 2806. | 0.08 |
| 355. | 0.54 | 1581. | 0.71 | 2807. | 0.08 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 356. | 0.54 | 1582. | 0.72 | 2808. | 0.08 |
| 357. | 0.54 | 1583. | 0.71 | 2809. | 0.08 |
| 358. | 0.54 | 1584. | 0.72 | 2810. | 0.08 |
| 359. | 0.54 | 1585. | 0.72 | 2811. | 0.08 |
| 360. | 0.54 | 1586. | 0.72 | 2812. | 0.08 |
| 361. | 0.54 | 1587. | 0.72 | 2813. | 0.08 |
| 362. | 0.54 | 1588. | 0.71 | 2814. | 0.08 |
| 363. | 0.54 | 1589. | 0.71 | 2815. | 0.08 |
| 364. | 0.54 | 1590. | 0.72 | 2816. | 0.08 |
| 365. | 0.54 | 1591. | 0.71 | 2817. | 0.08 |
| 366. | 0.54 | 1592. | 0.72 | 2818. | 0.08 |
| 367. | 0.54 | 1593. | 0.71 | 2819. | 0.08 |
| 368. | 0.53 | 1594. | 0.72 | 2820. | 0.08 |
| 369. | 0.54 | 1595. | 0.72 | 2821. | 0.08 |
| 370. | 0.54 | 1596. | 0.72 | 2822. | 0.08 |
| 371. | 0.54 | 1597. | 0.72 | 2823. | 0.08 |
| 372. | 0.54 | 1598. | 0.72 | 2824. | 0.08 |
| 373. | 0.54 | 1599. | 0.72 | 2825. | 0.08 |
| 374. | 0.54 | 1600. | 0.72 | 2826. | 0.08 |
| 375. | 0.54 | 1601. | 0.73 | 2827. | 0.08 |
| 376. | 0.54 | 1602. | 0.72 | 2828. | 0.08 |
| 377. | 0.54 | 1603. | 0.72 | 2829. | 0.08 |
| 378. | 0.55 | 1604. | 0.73 | 2830. | 0.08 |
| 379. | 0.55 | 1605. | 0.72 | 2831. | 0.08 |
| 380. | 0.54 | 1606. | 0.73 | 2832. | 0.08 |
| 381. | 0.54 | 1607. | 0.73 | 2833. | 0.08 |
| 382. | 0.54 | 1608. | 0.73 | 2834. | 0.08 |
| 383. | 0.55 | 1609. | 0.73 | 2835. | 0.08 |
| 384. | 0.55 | 1610. | 0.73 | 2836. | 0.08 |
| 385. | 0.55 | 1611. | 0.73 | 2837. | 0.08 |
| 386. | 0.55 | 1612. | 0.73 | 2838. | 0.08 |
| 387. | 0.55 | 1613. | 0.72 | 2839. | 0.08 |
| 388. | 0.55 | 1614. | 0.73 | 2840. | 0.07 |
| 389. | 0.55 | 1615. | 0.73 | 2841. | 0.07 |
| 390. | 0.56 | 1616. | 0.73 | 2842. | 0.07 |
| 391. | 0.55 | 1617. | 0.73 | 2843. | 0.07 |
| 392. | 0.55 | 1618. | 0.72 | 2844. | 0.07 |
| 393. | 0.56 | 1619. | 0.72 | 2845. | 0.07 |
| 394. | 0.55 | 1620. | 0.73 | 2846. | 0.07 |
| 395. | 0.56 | 1621. | 0.73 | 2847. | 0.07 |
| 396. | 0.56 | 1622. | 0.73 | 2848. | 0.07 |
| 397. | 0.56 | 1623. | 0.73 | 2849. | 0.07 |
| 398. | 0.56 | 1624. | 0.73 | 2850. | 0.07 |
| 399. | 0.56 | 1625. | 0.72 | 2851. | 0.07 |
| 400. | 0.56 | 1626. | 0.73 | 2852. | 0.07 |
| 401. | 0.56 | 1627. | 0.73 | 2853. | 0.07 |
| 402. | 0.56 | 1628. | 0.73 | 2854. | 0.07 |
| 403. | 0.56 | 1629. | 0.73 | 2855. | 0.07 |
| 404. | 0.56 | 1630. | 0.72 | 2856. | 0.07 |
| 405. | 0.56 | 1631. | 0.73 | 2857. | 0.07 |
| 406. | 0.56 | 1632. | 0.73 | 2858. | 0.07 |
| 407. | 0.56 | 1633. | 0.73 | 2859. | 0.07 |
| 408. | 0.57 | 1634. | 0.73 | 2860. | 0.07 |
| 409. | 0.56 | 1635. | 0.73 | 2861. | 0.07 |
| 410. | 0.57 | 1636. | 0.73 | 2862. | 0.07 |
| 411. | 0.57 | 1637. | 0.73 | 2863. | 0.07 |
| 412. | 0.57 | 1638. | 0.73 | 2864. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 413. | 0.57 | 1639. | 0.73 | 2865. | 0.07 |
| 414. | 0.57 | 1640. | 0.73 | 2866. | 0.07 |
| 415. | 0.57 | 1641. | 0.73 | 2867. | 0.07 |
| 416. | 0.57 | 1642. | 0.72 | 2868. | 0.07 |
| 417. | 0.57 | 1643. | 0.73 | 2869. | 0.07 |
| 418. | 0.57 | 1644. | 0.73 | 2870. | 0.07 |
| 419. | 0.57 | 1645. | 0.73 | 2871. | 0.07 |
| 420. | 0.57 | 1646. | 0.73 | 2872. | 0.07 |
| 421. | 0.57 | 1647. | 0.73 | 2873. | 0.07 |
| 422. | 0.57 | 1648. | 0.73 | 2874. | 0.07 |
| 423. | 0.57 | 1649. | 0.73 | 2875. | 0.07 |
| 424. | 0.57 | 1650. | 0.72 | 2876. | 0.07 |
| 425. | 0.57 | 1651. | 0.73 | 2877. | 0.07 |
| 426. | 0.57 | 1652. | 0.73 | 2878. | 0.07 |
| 427. | 0.57 | 1653. | 0.73 | 2879. | 0.07 |
| 428. | 0.57 | 1654. | 0.73 | 2880. | 0.07 |
| 429. | 0.57 | 1655. | 0.73 | 2881. | 0.07 |
| 430. | 0.57 | 1656. | 0.73 | 2882. | 0.07 |
| 431. | 0.57 | 1657. | 0.73 | 2883. | 0.07 |
| 432. | 0.57 | 1658. | 0.73 | 2884. | 0.07 |
| 433. | 0.57 | 1659. | 0.73 | 2885. | 0.07 |
| 434. | 0.57 | 1660. | 0.73 | 2886. | 0.07 |
| 435. | 0.57 | 1661. | 0.73 | 2887. | 0.07 |
| 436. | 0.57 | 1662. | 0.73 | 2888. | 0.07 |
| 437. | 0.57 | 1663. | 0.73 | 2889. | 0.07 |
| 438. | 0.57 | 1664. | 0.73 | 2890. | 0.07 |
| 439. | 0.57 | 1665. | 0.73 | 2891. | 0.07 |
| 440. | 0.57 | 1666. | 0.73 | 2892. | 0.07 |
| 441. | 0.57 | 1667. | 0.73 | 2893. | 0.07 |
| 442. | 0.58 | 1668. | 0.73 | 2894. | 0.07 |
| 443. | 0.57 | 1669. | 0.73 | 2895. | 0.07 |
| 444. | 0.58 | 1670. | 0.73 | 2896. | 0.07 |
| 445. | 0.58 | 1671. | 0.73 | 2897. | 0.07 |
| 446. | 0.57 | 1672. | 0.73 | 2898. | 0.07 |
| 447. | 0.57 | 1673. | 0.73 | 2899. | 0.07 |
| 448. | 0.57 | 1674. | 0.73 | 2900. | 0.07 |
| 449. | 0.57 | 1675. | 0.73 | 2901. | 0.07 |
| 450. | 0.58 | 1676. | 0.73 | 2902. | 0.07 |
| 451. | 0.57 | 1677. | 0.73 | 2903. | 0.07 |
| 452. | 0.58 | 1678. | 0.73 | 2904. | 0.07 |
| 453. | 0.57 | 1679. | 0.73 | 2905. | 0.07 |
| 454. | 0.57 | 1680. | 0.73 | 2906. | 0.07 |
| 455. | 0.58 | 1681. | 0.73 | 2907. | 0.07 |
| 456. | 0.58 | 1682. | 0.73 | 2908. | 0.07 |
| 457. | 0.58 | 1683. | 0.73 | 2909. | 0.07 |
| 458. | 0.58 | 1684. | 0.73 | 2910. | 0.07 |
| 459. | 0.58 | 1685. | 0.73 | 2911. | 0.07 |
| 460. | 0.58 | 1686. | 0.72 | 2912. | 0.07 |
| 461. | 0.58 | 1687. | 0.72 | 2913. | 0.07 |
| 462. | 0.58 | 1688. | 0.72 | 2914. | 0.07 |
| 463. | 0.58 | 1689. | 0.73 | 2915. | 0.07 |
| 464. | 0.59 | 1690. | 0.73 | 2916. | 0.07 |
| 465. | 0.58 | 1691. | 0.73 | 2917. | 0.07 |
| 466. | 0.58 | 1692. | 0.73 | 2918. | 0.07 |
| 467. | 0.59 | 1693. | 0.72 | 2919. | 0.07 |
| 468. | 0.58 | 1694. | 0.73 | 2920. | 0.07 |
| 469. | 0.59 | 1695. | 0.72 | 2921. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 470. | 0.59 | 1696. | 0.72 | 2922. | 0.07 |
| 471. | 0.58 | 1697. | 0.73 | 2923. | 0.07 |
| 472. | 0.58 | 1698. | 0.73 | 2924. | 0.07 |
| 473. | 0.58 | 1699. | 0.73 | 2925. | 0.07 |
| 474. | 0.58 | 1700. | 0.72 | 2926. | 0.07 |
| 475. | 0.58 | 1701. | 0.73 | 2927. | 0.07 |
| 476. | 0.58 | 1702. | 0.73 | 2928. | 0.07 |
| 477. | 0.58 | 1703. | 0.72 | 2929. | 0.07 |
| 478. | 0.58 | 1704. | 0.73 | 2930. | 0.07 |
| 479. | 0.58 | 1705. | 0.73 | 2931. | 0.07 |
| 480. | 0.59 | 1706. | 0.72 | 2932. | 0.07 |
| 481. | 0.58 | 1707. | 0.73 | 2933. | 0.07 |
| 482. | 0.59 | 1708. | 0.73 | 2934. | 0.07 |
| 483. | 0.58 | 1709. | 0.73 | 2935. | 0.07 |
| 484. | 0.59 | 1710. | 0.73 | 2936. | 0.07 |
| 485. | 0.59 | 1711. | 0.72 | 2937. | 0.07 |
| 486. | 0.59 | 1712. | 0.72 | 2938. | 0.07 |
| 487. | 0.58 | 1713. | 0.72 | 2939. | 0.07 |
| 488. | 0.59 | 1714. | 0.73 | 2940. | 0.07 |
| 489. | 0.59 | 1715. | 0.72 | 2941. | 0.07 |
| 490. | 0.59 | 1716. | 0.73 | 2942. | 0.07 |
| 491. | 0.59 | 1717. | 0.73 | 2943. | 0.07 |
| 492. | 0.59 | 1718. | 0.73 | 2944. | 0.07 |
| 493. | 0.59 | 1719. | 0.73 | 2945. | 0.07 |
| 494. | 0.59 | 1720. | 0.72 | 2946. | 0.07 |
| 495. | 0.59 | 1721. | 0.72 | 2947. | 0.07 |
| 496. | 0.59 | 1722. | 0.73 | 2948. | 0.07 |
| 497. | 0.59 | 1723. | 0.72 | 2949. | 0.07 |
| 498. | 0.59 | 1724. | 0.73 | 2950. | 0.07 |
| 499. | 0.59 | 1725. | 0.73 | 2951. | 0.07 |
| 500. | 0.6 | 1726. | 0.73 | 2952. | 0.07 |
| 501. | 0.59 | 1727. | 0.73 | 2953. | 0.07 |
| 502. | 0.59 | 1728. | 0.73 | 2954. | 0.07 |
| 503. | 0.59 | 1729. | 0.73 | 2955. | 0.07 |
| 504. | 0.59 | 1730. | 0.73 | 2956. | 0.07 |
| 505. | 0.59 | 1731. | 0.73 | 2957. | 0.07 |
| 506. | 0.59 | 1732. | 0.73 | 2958. | 0.07 |
| 507. | 0.6 | 1733. | 0.73 | 2959. | 0.07 |
| 508. | 0.59 | 1734. | 0.73 | 2960. | 0.07 |
| 509. | 0.6 | 1735. | 0.72 | 2961. | 0.07 |
| 510. | 0.59 | 1736. | 0.73 | 2962. | 0.07 |
| 511. | 0.59 | 1737. | 0.73 | 2963. | 0.07 |
| 512. | 0.59 | 1738. | 0.73 | 2964. | 0.07 |
| 513. | 0.59 | 1739. | 0.73 | 2965. | 0.07 |
| 514. | 0.59 | 1740. | 0.72 | 2966. | 0.07 |
| 515. | 0.59 | 1741. | 0.72 | 2967. | 0.07 |
| 516. | 0.59 | 1742. | 0.72 | 2968. | 0.07 |
| 517. | 0.59 | 1743. | 0.72 | 2969. | 0.07 |
| 518. | 0.6 | 1744. | 0.72 | 2970. | 0.07 |
| 519. | 0.59 | 1745. | 0.72 | 2971. | 0.07 |
| 520. | 0.59 | 1746. | 0.73 | 2972. | 0.07 |
| 521. | 0.59 | 1747. | 0.72 | 2973. | 0.07 |
| 522. | 0.6 | 1748. | 0.72 | 2974. | 0.07 |
| 523. | 0.6 | 1749. | 0.73 | 2975. | 0.07 |
| 524. | 0.59 | 1750. | 0.72 | 2976. | 0.07 |
| 525. | 0.59 | 1751. | 0.73 | 2977. | 0.07 |
| 526. | 0.59 | 1752. | 0.73 | 2978. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 527. | 0.59 | 1753. | 0.72 | 2979. | 0.07 |
| 528. | 0.59 | 1754. | 0.72 | 2980. | 0.07 |
| 529. | 0.6 | 1755. | 0.73 | 2981. | 0.07 |
| 530. | 0.59 | 1756. | 0.72 | 2982. | 0.07 |
| 531. | 0.59 | 1757. | 0.73 | 2983. | 0.07 |
| 532. | 0.59 | 1758. | 0.73 | 2984. | 0.07 |
| 533. | 0.59 | 1759. | 0.74 | 2985. | 0.07 |
| 534. | 0.59 | 1760. | 0.73 | 2986. | 0.07 |
| 535. | 0.59 | 1761. | 0.73 | 2987. | 0.07 |
| 536. | 0.6 | 1762. | 0.74 | 2988. | 0.07 |
| 537. | 0.6 | 1763. | 0.74 | 2989. | 0.07 |
| 538. | 0.59 | 1764. | 0.74 | 2990. | 0.07 |
| 539. | 0.6 | 1765. | 0.74 | 2991. | 0.07 |
| 540. | 0.59 | 1766. | 0.74 | 2992. | 0.07 |
| 541. | 0.6 | 1767. | 0.74 | 2993. | 0.07 |
| 542. | 0.6 | 1768. | 0.74 | 2994. | 0.07 |
| 543. | 0.6 | 1769. | 0.74 | 2995. | 0.07 |
| 544. | 0.6 | 1770. | 0.74 | 2996. | 0.07 |
| 545. | 0.6 | 1771. | 0.74 | 2997. | 0.07 |
| 546. | 0.6 | 1772. | 0.75 | 2998. | 0.07 |
| 547. | 0.6 | 1773. | 0.74 | 2999. | 0.07 |
| 548. | 0.6 | 1774. | 0.74 | 3000. | 0.07 |
| 549. | 0.6 | 1775. | 0.74 | 3001. | 0.07 |
| 550. | 0.6 | 1776. | 0.75 | 3002. | 0.07 |
| 551. | 0.6 | 1777. | 0.74 | 3003. | 0.07 |
| 552. | 0.6 | 1778. | 0.75 | 3004. | 0.07 |
| 553. | 0.6 | 1779. | 0.75 | 3005. | 0.07 |
| 554. | 0.6 | 1780. | 0.75 | 3006. | 0.07 |
| 555. | 0.6 | 1781. | 0.75 | 3007. | 0.07 |
| 556. | 0.6 | 1782. | 0.75 | 3008. | 0.07 |
| 557. | 0.6 | 1783. | 0.75 | 3009. | 0.07 |
| 558. | 0.6 | 1784. | 0.75 | 3010. | 0.07 |
| 559. | 0.6 | 1785. | 0.75 | 3011. | 0.07 |
| 560. | 0.6 | 1786. | 0.75 | 3012. | 0.07 |
| 561. | 0.6 | 1787. | 0.75 | 3013. | 0.07 |
| 562. | 0.6 | 1788. | 0.76 | 3014. | 0.07 |
| 563. | 0.6 | 1789. | 0.75 | 3015. | 0.07 |
| 564. | 0.6 | 1790. | 0.75 | 3016. | 0.07 |
| 565. | 0.6 | 1791. | 0.75 | 3017. | 0.07 |
| 566. | 0.6 | 1792. | 0.75 | 3018. | 0.07 |
| 567. | 0.6 | 1793. | 0.75 | 3019. | 0.07 |
| 568. | 0.6 | 1794. | 0.75 | 3020. | 0.07 |
| 569. | 0.6 | 1795. | 0.75 | 3021. | 0.07 |
| 570. | 0.6 | 1796. | 0.75 | 3022. | 0.07 |
| 571. | 0.61 | 1797. | 0.75 | 3023. | 0.07 |
| 572. | 0.61 | 1798. | 0.75 | 3024. | 0.07 |
| 573. | 0.61 | 1799. | 0.75 | 3025. | 0.07 |
| 574. | 0.6 | 1800. | 0.75 | 3026. | 0.07 |
| 575. | 0.61 | 1801. | 0.75 | 3027. | 0.07 |
| 576. | 0.61 | 1802. | 0.75 | 3028. | 0.07 |
| 577. | 0.61 | 1803. | 0.75 | 3029. | 0.07 |
| 578. | 0.61 | 1804. | 0.75 | 3030. | 0.07 |
| 579. | 0.61 | 1805. | 0.75 | 3031. | 0.07 |
| 580. | 0.61 | 1806. | 0.75 | 3032. | 0.07 |
| 581. | 0.62 | 1807. | 0.75 | 3033. | 0.07 |
| 582. | 0.61 | 1808. | 0.75 | 3034. | 0.07 |
| 583. | 0.61 | 1809. | 0.75 | 3035. | 0.07 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 584. | 0.61 | 1810. | 0.75 | 3036. | 0.07 |
| 585. | 0.62 | 1811. | 0.76 | 3037. | 0.07 |
| 586. | 0.62 | 1812. | 0.75 | 3038. | 0.07 |
| 587. | 0.62 | 1813. | 0.76 | 3039. | 0.07 |
| 588. | 0.62 | 1814. | 0.75 | 3040. | 0.07 |
| 589. | 0.62 | 1815. | 0.75 | 3041. | 0.07 |
| 590. | 0.62 | 1816. | 0.76 | 3042. | 0.07 |
| 591. | 0.62 | 1817. | 0.75 | 3043. | 0.07 |
| 592. | 0.62 | 1818. | 0.75 | 3044. | 0.07 |
| 593. | 0.62 | 1819. | 0.76 | 3045. | 0.06 |
| 594. | 0.62 | 1820. | 0.75 | 3046. | 0.06 |
| 595. | 0.62 | 1821. | 0.75 | 3047. | 0.06 |
| 596. | 0.62 | 1822. | 0.75 | 3048. | 0.06 |
| 597. | 0.62 | 1823. | 0.75 | 3049. | 0.07 |
| 598. | 0.62 | 1824. | 0.75 | 3050. | 0.07 |
| 599. | 0.62 | 1825. | 0.75 | 3051. | 0.07 |
| 600. | 0.62 | 1826. | 0.75 | 3052. | 0.07 |
| 601. | 0.62 | 1827. | 0.75 | 3053. | 0.07 |
| 602. | 0.62 | 1828. | 0.75 | 3054. | 0.07 |
| 603. | 0.62 | 1829. | 0.75 | 3055. | 0.07 |
| 604. | 0.62 | 1830. | 0.75 | 3056. | 0.06 |
| 605. | 0.62 | 1831. | 0.75 | 3057. | 0.07 |
| 606. | 0.62 | 1832. | 0.75 | 3058. | 0.06 |
| 607. | 0.62 | 1833. | 0.75 | 3059. | 0.06 |
| 608. | 0.63 | 1834. | 0.75 | 3060. | 0.06 |
| 609. | 0.63 | 1835. | 0.75 | 3061. | 0.06 |
| 610. | 0.62 | 1836. | 0.75 | 3062. | 0.06 |
| 611. | 0.63 | 1837. | 0.75 | 3063. | 0.06 |
| 612. | 0.62 | 1838. | 0.75 | 3064. | 0.06 |
| 613. | 0.63 | 1839. | 0.75 | 3065. | 0.07 |
| 614. | 0.63 | 1840. | 0.75 | 3066. | 0.06 |
| 615. | 0.63 | 1841. | 0.75 | 3067. | 0.06 |
| 616. | 0.63 | 1842. | 0.75 | 3068. | 0.06 |
| 617. | 0.62 | 1843. | 0.75 | 3069. | 0.06 |
| 618. | 0.63 | 1844. | 0.75 | 3070. | 0.06 |
| 619. | 0.63 | 1845. | 0.75 | 3071. | 0.06 |
| 620. | 0.63 | 1846. | 0.75 | 3072. | 0.06 |
| 621. | 0.62 | 1847. | 0.75 | 3073. | 0.06 |
| 622. | 0.63 | 1848. | 0.75 | 3074. | 0.06 |
| 623. | 0.63 | 1849. | 0.75 | 3075. | 0.06 |
| 624. | 0.63 | 1850. | 0.74 | 3076. | 0.06 |
| 625. | 0.63 | 1851. | 0.75 | 3077. | 0.06 |
| 626. | 0.63 | 1852. | 0.75 | 3078. | 0.06 |
| 627. | 0.63 | 1853. | 0.75 | 3079. | 0.06 |
| 628. | 0.63 | 1854. | 0.75 | 3080. | 0.06 |
| 629. | 0.63 | 1855. | 0.75 | 3081. | 0.06 |
| 630. | 0.62 | 1856. | 0.75 | 3082. | 0.06 |
| 631. | 0.62 | 1857. | 0.75 | 3083. | 0.06 |
| 632. | 0.63 | 1858. | 0.74 | 3084. | 0.06 |
| 633. | 0.63 | 1859. | 0.75 | 3085. | 0.06 |
| 634. | 0.63 | 1860. | 0.75 | 3086. | 0.06 |
| 635. | 0.63 | 1861. | 0.75 | 3087. | 0.06 |
| 636. | 0.63 | 1862. | 0.75 | 3088. | 0.06 |
| 637. | 0.63 | 1863. | 0.75 | 3089. | 0.06 |
| 638. | 0.63 | 1864. | 0.75 | 3090. | 0.06 |
| 639. | 0.63 | 1865. | 0.75 | 3091. | 0.06 |
| 640. | 0.63 | 1866. | 0.75 | 3092. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 641. | 0.63 | 1867. | 0.74 | 3093. | 0.06 |
| 642. | 0.63 | 1868. | 0.75 | 3094. | 0.06 |
| 643. | 0.63 | 1869. | 0.75 | 3095. | 0.06 |
| 644. | 0.62 | 1870. | 0.75 | 3096. | 0.06 |
| 645. | 0.63 | 1871. | 0.75 | 3097. | 0.06 |
| 646. | 0.63 | 1872. | 0.75 | 3098. | 0.06 |
| 647. | 0.63 | 1873. | 0.75 | 3099. | 0.06 |
| 648. | 0.63 | 1874. | 0.75 | 3100. | 0.06 |
| 649. | 0.63 | 1875. | 0.74 | 3101. | 0.06 |
| 650. | 0.63 | 1876. | 0.75 | 3102. | 0.06 |
| 651. | 0.63 | 1877. | 0.75 | 3103. | 0.06 |
| 652. | 0.63 | 1878. | 0.75 | 3104. | 0.06 |
| 653. | 0.63 | 1879. | 0.75 | 3105. | 0.06 |
| 654. | 0.63 | 1880. | 0.75 | 3106. | 0.06 |
| 655. | 0.63 | 1881. | 0.75 | 3107. | 0.06 |
| 656. | 0.62 | 1882. | 0.75 | 3108. | 0.06 |
| 657. | 0.63 | 1883. | 0.75 | 3109. | 0.06 |
| 658. | 0.63 | 1884. | 0.75 | 3110. | 0.06 |
| 659. | 0.63 | 1885. | 0.75 | 3111. | 0.06 |
| 660. | 0.63 | 1886. | 0.75 | 3112. | 0.06 |
| 661. | 0.63 | 1887. | 0.75 | 3113. | 0.06 |
| 662. | 0.63 | 1888. | 0.75 | 3114. | 0.06 |
| 663. | 0.63 | 1889. | 0.75 | 3115. | 0.06 |
| 664. | 0.63 | 1890. | 0.76 | 3116. | 0.06 |
| 665. | 0.63 | 1891. | 0.75 | 3117. | 0.06 |
| 666. | 0.63 | 1892. | 0.75 | 3118. | 0.06 |
| 667. | 0.63 | 1893. | 0.75 | 3119. | 0.06 |
| 668. | 0.64 | 1894. | 0.75 | 3120. | 0.06 |
| 669. | 0.63 | 1895. | 0.75 | 3121. | 0.06 |
| 670. | 0.63 | 1896. | 0.75 | 3122. | 0.06 |
| 671. | 0.63 | 1897. | 0.75 | 3123. | 0.06 |
| 672. | 0.63 | 1898. | 0.76 | 3124. | 0.06 |
| 673. | 0.63 | 1899. | 0.76 | 3125. | 0.06 |
| 674. | 0.63 | 1900. | 0.76 | 3126. | 0.06 |
| 675. | 0.63 | 1901. | 0.75 | 3127. | 0.06 |
| 676. | 0.63 | 1902. | 0.75 | 3128. | 0.06 |
| 677. | 0.64 | 1903. | 0.75 | 3129. | 0.06 |
| 678. | 0.63 | 1904. | 0.75 | 3130. | 0.06 |
| 679. | 0.64 | 1905. | 0.75 | 3131. | 0.06 |
| 680. | 0.63 | 1906. | 0.75 | 3132. | 0.06 |
| 681. | 0.63 | 1907. | 0.75 | 3133. | 0.06 |
| 682. | 0.63 | 1908. | 0.75 | 3134. | 0.06 |
| 683. | 0.63 | 1909. | 0.76 | 3135. | 0.06 |
| 684. | 0.64 | 1910. | 0.75 | 3136. | 0.06 |
| 685. | 0.63 | 1911. | 0.75 | 3137. | 0.06 |
| 686. | 0.64 | 1912. | 0.75 | 3138. | 0.06 |
| 687. | 0.63 | 1913. | 0.75 | 3139. | 0.06 |
| 688. | 0.64 | 1914. | 0.75 | 3140. | 0.06 |
| 689. | 0.63 | 1915. | 0.75 | 3141. | 0.06 |
| 690. | 0.63 | 1916. | 0.75 | 3142. | 0.06 |
| 691. | 0.63 | 1917. | 0.75 | 3143. | 0.06 |
| 692. | 0.64 | 1918. | 0.75 | 3144. | 0.06 |
| 693. | 0.63 | 1919. | 0.75 | 3145. | 0.06 |
| 694. | 0.64 | 1920. | 0.75 | 3146. | 0.06 |
| 695. | 0.64 | 1921. | 0.75 | 3147. | 0.06 |
| 696. | 0.63 | 1922. | 0.75 | 3148. | 0.06 |
| 697. | 0.64 | 1923. | 0.75 | 3149. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 698. | 0.64 | 1924. | 0.75 | 3150. | 0.06 |
| 699. | 0.64 | 1925. | 0.75 | 3151. | 0.06 |
| 700. | 0.63 | 1926. | 0.76 | 3152. | 0.06 |
| 701. | 0.64 | 1927. | 0.75 | 3153. | 0.06 |
| 702. | 0.64 | 1928. | 0.74 | 3154. | 0.06 |
| 703. | 0.63 | 1929. | 0.75 | 3155. | 0.06 |
| 704. | 0.64 | 1930. | 0.75 | 3156. | 0.06 |
| 705. | 0.64 | 1931. | 0.75 | 3157. | 0.06 |
| 706. | 0.64 | 1932. | 0.75 | 3158. | 0.06 |
| 707. | 0.63 | 1933. | 0.74 | 3159. | 0.06 |
| 708. | 0.63 | 1934. | 0.74 | 3160. | 0.06 |
| 709. | 0.64 | 1935. | 0.74 | 3161. | 0.06 |
| 710. | 0.64 | 1936. | 0.73 | 3162. | 0.06 |
| 711. | 0.63 | 1937. | 0.73 | 3163. | 0.06 |
| 712. | 0.64 | 1938. | 0.73 | 3164. | 0.06 |
| 713. | 0.64 | 1939. | 0.73 | 3165. | 0.06 |
| 714. | 0.64 | 1940. | 0.73 | 3166. | 0.06 |
| 715. | 0.64 | 1941. | 0.73 | 3167. | 0.06 |
| 716. | 0.63 | 1942. | 0.73 | 3168. | 0.06 |
| 717. | 0.64 | 1943. | 0.73 | 3169. | 0.06 |
| 718. | 0.63 | 1944. | 0.73 | 3170. | 0.06 |
| 719. | 0.64 | 1945. | 0.72 | 3171. | 0.06 |
| 720. | 0.64 | 1946. | 0.72 | 3172. | 0.06 |
| 721. | 0.64 | 1947. | 0.72 | 3173. | 0.06 |
| 722. | 0.64 | 1948. | 0.72 | 3174. | 0.06 |
| 723. | 0.64 | 1949. | 0.72 | 3175. | 0.06 |
| 724. | 0.64 | 1950. | 0.72 | 3176. | 0.06 |
| 725. | 0.64 | 1951. | 0.73 | 3177. | 0.06 |
| 726. | 0.64 | 1952. | 0.72 | 3178. | 0.06 |
| 727. | 0.64 | 1953. | 0.72 | 3179. | 0.06 |
| 728. | 0.64 | 1954. | 0.72 | 3180. | 0.06 |
| 729. | 0.64 | 1955. | 0.72 | 3181. | 0.06 |
| 730. | 0.64 | 1956. | 0.72 | 3182. | 0.06 |
| 731. | 0.64 | 1957. | 0.72 | 3183. | 0.06 |
| 732. | 0.63 | 1958. | 0.72 | 3184. | 0.06 |
| 733. | 0.64 | 1959. | 0.72 | 3185. | 0.06 |
| 734. | 0.64 | 1960. | 0.71 | 3186. | 0.06 |
| 735. | 0.64 | 1961. | 0.72 | 3187. | 0.06 |
| 736. | 0.64 | 1962. | 0.72 | 3188. | 0.06 |
| 737. | 0.64 | 1963. | 0.72 | 3189. | 0.06 |
| 738. | 0.64 | 1964. | 0.72 | 3190. | 0.06 |
| 739. | 0.64 | 1965. | 0.72 | 3191. | 0.06 |
| 740. | 0.64 | 1966. | 0.72 | 3192. | 0.06 |
| 741. | 0.64 | 1967. | 0.73 | 3193. | 0.06 |
| 742. | 0.64 | 1968. | 0.72 | 3194. | 0.06 |
| 743. | 0.64 | 1969. | 0.72 | 3195. | 0.06 |
| 744. | 0.64 | 1970. | 0.72 | 3196. | 0.06 |
| 745. | 0.64 | 1971. | 0.72 | 3197. | 0.06 |
| 746. | 0.64 | 1972. | 0.72 | 3198. | 0.06 |
| 747. | 0.64 | 1973. | 0.73 | 3199. | 0.06 |
| 748. | 0.64 | 1974. | 0.72 | 3200. | 0.06 |
| 749. | 0.64 | 1975. | 0.72 | 3201. | 0.06 |
| 750. | 0.64 | 1976. | 0.72 | 3202. | 0.06 |
| 751. | 0.64 | 1977. | 0.72 | 3203. | 0.06 |
| 752. | 0.64 | 1978. | 0.72 | 3204. | 0.06 |
| 753. | 0.64 | 1979. | 0.73 | 3205. | 0.06 |
| 754. | 0.64 | 1980. | 0.73 | 3206. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 755. | 0.64 | 1981. | 0.72 | 3207. | 0.06 |
| 756. | 0.64 | 1982. | 0.73 | 3208. | 0.06 |
| 757. | 0.64 | 1983. | 0.72 | 3209. | 0.06 |
| 758. | 0.64 | 1984. | 0.73 | 3210. | 0.06 |
| 759. | 0.64 | 1985. | 0.72 | 3211. | 0.06 |
| 760. | 0.64 | 1986. | 0.72 | 3212. | 0.06 |
| 761. | 0.64 | 1987. | 0.73 | 3213. | 0.06 |
| 762. | 0.64 | 1988. | 0.72 | 3214. | 0.06 |
| 763. | 0.63 | 1989. | 0.72 | 3215. | 0.06 |
| 764. | 0.64 | 1990. | 0.72 | 3216. | 0.06 |
| 765. | 0.64 | 1991. | 0.73 | 3217. | 0.06 |
| 766. | 0.63 | 1992. | 0.73 | 3218. | 0.06 |
| 767. | 0.63 | 1993. | 0.73 | 3219. | 0.06 |
| 768. | 0.64 | 1994. | 0.74 | 3220. | 0.06 |
| 769. | 0.64 | 1995. | 0.72 | 3221. | 0.06 |
| 770. | 0.64 | 1996. | 0.73 | 3222. | 0.06 |
| 771. | 0.63 | 1997. | 0.73 | 3223. | 0.06 |
| 772. | 0.63 | 1998. | 0.73 | 3224. | 0.06 |
| 773. | 0.63 | 1999. | 0.74 | 3225. | 0.06 |
| 774. | 0.63 | 2000. | 0.72 | 3226. | 0.06 |
| 775. | 0.63 | 2001. | 0.56 | 3227. | 0.06 |
| 776. | 0.64 | 2002. | 0.58 | 3228. | 0.06 |
| 777. | 0.63 | 2003. | 0.64 | 3229. | 0.06 |
| 778. | 0.64 | 2004. | 0.67 | 3230. | 0.06 |
| 779. | 0.64 | 2005. | 0.7 | 3231. | 0.06 |
| 780. | 0.64 | 2006. | 0.72 | 3232. | 0.06 |
| 781. | 0.64 | 2007. | 0.75 | 3233. | 0.06 |
| 782. | 0.64 | 2008. | 0.78 | 3234. | 0.06 |
| 783. | 0.64 | 2009. | 0.79 | 3235. | 0.06 |
| 784. | 0.64 | 2010. | 0.82 | 3236. | 0.06 |
| 785. | 0.64 | 2011. | 0.84 | 3237. | 0.06 |
| 786. | 0.64 | 2012. | 0.85 | 3238. | 0.06 |
| 787. | 0.64 | 2013. | 0.88 | 3239. | 0.06 |
| 788. | 0.64 | 2014. | 0.9 | 3240. | 0.06 |
| 789. | 0.65 | 2015. | 0.93 | 3241. | 0.06 |
| 790. | 0.65 | 2016. | 0.96 | 3242. | 0.06 |
| 791. | 0.64 | 2017. | 0.99 | 3243. | 0.06 |
| 792. | 0.65 | 2018. | 1.02 | 3244. | 0.06 |
| 793. | 0.65 | 2019. | 1.04 | 3245. | 0.06 |
| 794. | 0.65 | 2020. | 1. | 3246. | 0.06 |
| 795. | 0.65 | 2021. | 0.99 | 3247. | 0.06 |
| 796. | 0.65 | 2022. | 1. | 3248. | 0.06 |
| 797. | 0.65 | 2023. | 1.03 | 3249. | 0.06 |
| 798. | 0.65 | 2024. | 1.03 | 3250. | 0.06 |
| 799. | 0.65 | 2025. | 0.99 | 3251. | 0.06 |
| 800. | 0.65 | 2026. | 0.98 | 3252. | 0.06 |
| 801. | 0.65 | 2027. | 0.98 | 3253. | 0.06 |
| 802. | 0.65 | 2028. | 1.01 | 3254. | 0.06 |
| 803. | 0.65 | 2029. | 1.04 | 3255. | 0.06 |
| 804. | 0.65 | 2030. | 1.01 | 3256. | 0.06 |
| 805. | 0.64 | 2031. | 0.96 | 3257. | 0.06 |
| 806. | 0.64 | 2032. | 0.95 | 3258. | 0.06 |
| 807. | 0.65 | 2033. | 0.96 | 3259. | 0.06 |
| 808. | 0.64 | 2034. | 0.98 | 3260. | 0.06 |
| 809. | 0.64 | 2035. | 1.01 | 3261. | 0.06 |
| 810. | 0.64 | 2036. | 1.04 | 3262. | 0.06 |
| 811. | 0.64 | 2037. | 1. | 3263. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 812. | 0.64 | 2038. | 0.98 | 3264. | 0.06 |
| 813. | 0.64 | 2039. | 0.97 | 3265. | 0.06 |
| 814. | 0.64 | 2040. | 0.99 | 3266. | 0.06 |
| 815. | 0.64 | 2041. | 1.02 | 3267. | 0.06 |
| 816. | 0.64 | 2042. | 1.04 | 3268. | 0.06 |
| 817. | 0.64 | 2043. | 0.99 | 3269. | 0.06 |
| 818. | 0.64 | 2044. | 0.97 | 3270. | 0.06 |
| 819. | 0.64 | 2045. | 0.97 | 3271. | 0.06 |
| 820. | 0.64 | 2046. | 0.99 | 3272. | 0.06 |
| 821. | 0.64 | 2047. | 1.02 | 3273. | 0.06 |
| 822. | 0.64 | 2048. | 1.03 | 3274. | 0.06 |
| 823. | 0.64 | 2049. | 0.96 | 3275. | 0.06 |
| 824. | 0.64 | 2050. | 0.9 | 3276. | 0.06 |
| 825. | 0.64 | 2051. | 0.87 | 3277. | 0.06 |
| 826. | 0.64 | 2052. | 0.87 | 3278. | 0.06 |
| 827. | 0.65 | 2053. | 0.88 | 3279. | 0.06 |
| 828. | 0.64 | 2054. | 0.91 | 3280. | 0.06 |
| 829. | 0.64 | 2055. | 0.94 | 3281. | 0.06 |
| 830. | 0.64 | 2056. | 0.97 | 3282. | 0.06 |
| 831. | 0.65 | 2057. | 1.01 | 3283. | 0.06 |
| 832. | 0.65 | 2058. | 1.04 | 3284. | 0.06 |
| 833. | 0.64 | 2059. | 1.01 | 3285. | 0.06 |
| 834. | 0.64 | 2060. | 0.96 | 3286. | 0.06 |
| 835. | 0.65 | 2061. | 0.95 | 3287. | 0.06 |
| 836. | 0.65 | 2062. | 0.96 | 3288. | 0.06 |
| 837. | 0.65 | 2063. | 0.99 | 3289. | 0.06 |
| 838. | 0.64 | 2064. | 1.02 | 3290. | 0.06 |
| 839. | 0.64 | 2065. | 1.04 | 3291. | 0.06 |
| 840. | 0.64 | 2066. | 0.99 | 3292. | 0.06 |
| 841. | 0.64 | 2067. | 0.97 | 3293. | 0.06 |
| 842. | 0.65 | 2068. | 0.98 | 3294. | 0.06 |
| 843. | 0.64 | 2069. | 0.99 | 3295. | 0.06 |
| 844. | 0.64 | 2070. | 1.02 | 3296. | 0.06 |
| 845. | 0.64 | 2071. | 1.03 | 3297. | 0.06 |
| 846. | 0.64 | 2072. | 0.98 | 3298. | 0.06 |
| 847. | 0.65 | 2073. | 0.94 | 3299. | 0.06 |
| 848. | 0.64 | 2074. | 0.94 | 3300. | 0.06 |
| 849. | 0.64 | 2075. | 0.95 | 3301. | 0.06 |
| 850. | 0.65 | 2076. | 0.97 | 3302. | 0.06 |
| 851. | 0.65 | 2077. | 1.01 | 3303. | 0.06 |
| 852. | 0.65 | 2078. | 1.04 | 3304. | 0.06 |
| 853. | 0.65 | 2079. | 0.99 | 3305. | 0.06 |
| 854. | 0.65 | 2080. | 0.9 | 3306. | 0.06 |
| 855. | 0.64 | 2081. | 0.86 | 3307. | 0.06 |
| 856. | 0.64 | 2082. | 0.84 | 3308. | 0.06 |
| 857. | 0.64 | 2083. | 0.85 | 3309. | 0.06 |
| 858. | 0.64 | 2084. | 0.86 | 3310. | 0.06 |
| 859. | 0.64 | 2085. | 0.89 | 3311. | 0.06 |
| 860. | 0.65 | 2086. | 0.92 | 3312. | 0.06 |
| 861. | 0.65 | 2087. | 0.95 | 3313. | 0.06 |
| 862. | 0.64 | 2088. | 0.98 | 3314. | 0.05 |
| 863. | 0.65 | 2089. | 1.02 | 3315. | 0.06 |
| 864. | 0.65 | 2090. | 1.04 | 3316. | 0.06 |
| 865. | 0.65 | 2091. | 0.98 | 3317. | 0.06 |
| 866. | 0.65 | 2092. | 0.94 | 3318. | 0.06 |
| 867. | 0.64 | 2093. | 0.93 | 3319. | 0.06 |
| 868. | 0.65 | 2094. | 0.93 | 3320. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 869. | 0.65 | 2095. | 0.96 | 3321. | 0.06 |
| 870. | 0.64 | 2096. | 0.99 | 3322. | 0.06 |
| 871. | 0.65 | 2097. | 1.03 | 3323. | 0.06 |
| 872. | 0.65 | 2098. | 1.03 | 3324. | 0.06 |
| 873. | 0.64 | 2099. | 0.97 | 3325. | 0.06 |
| 874. | 0.64 | 2100. | 0.93 | 3326. | 0.06 |
| 875. | 0.65 | 2101. | 0.93 | 3327. | 0.06 |
| 876. | 0.64 | 2102. | 0.95 | 3328. | 0.06 |
| 877. | 0.64 | 2103. | 0.97 | 3329. | 0.06 |
| 878. | 0.64 | 2104. | 1.01 | 3330. | 0.06 |
| 879. | 0.65 | 2105. | 1.03 | 3331. | 0.06 |
| 880. | 0.64 | 2106. | 1.03 | 3332. | 0.06 |
| 881. | 0.64 | 2107. | 1.01 | 3333. | 0.06 |
| 882. | 0.64 | 2108. | 1.02 | 3334. | 0.06 |
| 883. | 0.64 | 2109. | 1.04 | 3335. | 0.05 |
| 884. | 0.64 | 2110. | 0.99 | 3336. | 0.06 |
| 885. | 0.64 | 2111. | 0.93 | 3337. | 0.06 |
| 886. | 0.64 | 2112. | 0.92 | 3338. | 0.06 |
| 887. | 0.64 | 2113. | 0.92 | 3339. | 0.05 |
| 888. | 0.65 | 2114. | 0.95 | 3340. | 0.06 |
| 889. | 0.64 | 2115. | 0.98 | 3341. | 0.06 |
| 890. | 0.64 | 2116. | 0.8 | 3342. | 0.05 |
| 891. | 0.65 | 2117. | 0.64 | 3343. | 0.05 |
| 892. | 0.64 | 2118. | 0.52 | 3344. | 0.05 |
| 893. | 0.64 | 2119. | 0.46 | 3345. | 0.05 |
| 894. | 0.64 | 2120. | 0.39 | 3346. | 0.05 |
| 895. | 0.65 | 2121. | 0.34 | 3347. | 0.05 |
| 896. | 0.64 | 2122. | 0.29 | 3348. | 0.05 |
| 897. | 0.65 | 2123. | 0.24 | 3349. | 0.05 |
| 898. | 0.64 | 2124. | 0.19 | 3350. | 0.05 |
| 899. | 0.64 | 2125. | 0.14 | 3351. | 0.05 |
| 900. | 0.64 | 2126. | 0.11 | 3352. | 0.05 |
| 901. | 0.64 | 2127. | 0.09 | 3353. | 0.05 |
| 902. | 0.64 | 2128. | 0.07 | 3354. | 0.05 |
| 903. | 0.64 | 2129. | 0.06 | 3355. | 0.05 |
| 904. | 0.64 | 2130. | 0.06 | 3356. | 0.05 |
| 905. | 0.64 | 2131. | 0.07 | 3357. | 0.05 |
| 906. | 0.64 | 2132. | 0.07 | 3358. | 0.05 |
| 907. | 0.64 | 2133. | 0.09 | 3359. | 0.05 |
| 908. | 0.64 | 2134. | 0.1 | 3360. | 0.05 |
| 909. | 0.64 | 2135. | 0.11 | 3361. | 0.05 |
| 910. | 0.64 | 2136. | 0.12 | 3362. | 0.05 |
| 911. | 0.64 | 2137. | 0.13 | 3363. | 0.05 |
| 912. | 0.64 | 2138. | 0.14 | 3364. | 0.05 |
| 913. | 0.64 | 2139. | 0.14 | 3365. | 0.05 |
| 914. | 0.64 | 2140. | 0.15 | 3366. | 0.05 |
| 915. | 0.64 | 2141. | 0.15 | 3367. | 0.05 |
| 916. | 0.64 | 2142. | 0.16 | 3368. | 0.05 |
| 917. | 0.64 | 2143. | 0.16 | 3369. | 0.05 |
| 918. | 0.64 | 2144. | 0.17 | 3370. | 0.05 |
| 919. | 0.64 | 2145. | 0.17 | 3371. | 0.05 |
| 920. | 0.64 | 2146. | 0.17 | 3372. | 0.05 |
| 921. | 0.64 | 2147. | 0.17 | 3373. | 0.05 |
| 922. | 0.64 | 2148. | 0.18 | 3374. | 0.05 |
| 923. | 0.64 | 2149. | 0.18 | 3375. | 0.05 |
| 924. | 0.64 | 2150. | 0.18 | 3376. | 0.05 |
| 925. | 0.64 | 2151. | 0.18 | 3377. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 926. | 0.64 | 2152. | 0.18 | 3378. | 0.05 |
| 927. | 0.64 | 2153. | 0.18 | 3379. | 0.05 |
| 928. | 0.64 | 2154. | 0.18 | 3380. | 0.05 |
| 929. | 0.64 | 2155. | 0.19 | 3381. | 0.05 |
| 930. | 0.64 | 2156. | 0.19 | 3382. | 0.05 |
| 931. | 0.64 | 2157. | 0.19 | 3383. | 0.05 |
| 932. | 0.64 | 2158. | 0.19 | 3384. | 0.05 |
| 933. | 0.64 | 2159. | 0.19 | 3385. | 0.05 |
| 934. | 0.64 | 2160. | 0.19 | 3386. | 0.05 |
| 935. | 0.64 | 2161. | 0.19 | 3387. | 0.05 |
| 936. | 0.64 | 2162. | 0.19 | 3388. | 0.05 |
| 937. | 0.64 | 2163. | 0.19 | 3389. | 0.05 |
| 938. | 0.64 | 2164. | 0.19 | 3390. | 0.05 |
| 939. | 0.64 | 2165. | 0.19 | 3391. | 0.05 |
| 940. | 0.64 | 2166. | 0.19 | 3392. | 0.05 |
| 941. | 0.64 | 2167. | 0.19 | 3393. | 0.05 |
| 942. | 0.64 | 2168. | 0.19 | 3394. | 0.05 |
| 943. | 0.64 | 2169. | 0.19 | 3395. | 0.05 |
| 944. | 0.64 | 2170. | 0.19 | 3396. | 0.05 |
| 945. | 0.64 | 2171. | 0.19 | 3397. | 0.05 |
| 946. | 0.65 | 2172. | 0.18 | 3398. | 0.05 |
| 947. | 0.64 | 2173. | 0.18 | 3399. | 0.05 |
| 948. | 0.65 | 2174. | 0.18 | 3400. | 0.05 |
| 949. | 0.64 | 2175. | 0.18 | 3401. | 0.05 |
| 950. | 0.64 | 2176. | 0.18 | 3402. | 0.05 |
| 951. | 0.64 | 2177. | 0.18 | 3403. | 0.05 |
| 952. | 0.64 | 2178. | 0.18 | 3404. | 0.05 |
| 953. | 0.64 | 2179. | 0.18 | 3405. | 0.05 |
| 954. | 0.65 | 2180. | 0.18 | 3406. | 0.05 |
| 955. | 0.64 | 2181. | 0.18 | 3407. | 0.05 |
| 956. | 0.64 | 2182. | 0.18 | 3408. | 0.05 |
| 957. | 0.64 | 2183. | 0.18 | 3409. | 0.05 |
| 958. | 0.64 | 2184. | 0.18 | 3410. | 0.05 |
| 959. | 0.64 | 2185. | 0.18 | 3411. | 0.05 |
| 960. | 0.64 | 2186. | 0.18 | 3412. | 0.05 |
| 961. | 0.64 | 2187. | 0.18 | 3413. | 0.05 |
| 962. | 0.64 | 2188. | 0.18 | 3414. | 0.05 |
| 963. | 0.64 | 2189. | 0.18 | 3415. | 0.05 |
| 964. | 0.64 | 2190. | 0.18 | 3416. | 0.05 |
| 965. | 0.64 | 2191. | 0.17 | 3417. | 0.05 |
| 966. | 0.64 | 2192. | 0.17 | 3418. | 0.05 |
| 967. | 0.64 | 2193. | 0.17 | 3419. | 0.05 |
| 968. | 0.64 | 2194. | 0.17 | 3420. | 0.05 |
| 969. | 0.64 | 2195. | 0.17 | 3421. | 0.05 |
| 970. | 0.64 | 2196. | 0.17 | 3422. | 0.05 |
| 971. | 0.64 | 2197. | 0.17 | 3423. | 0.05 |
| 972. | 0.64 | 2198. | 0.17 | 3424. | 0.05 |
| 973. | 0.64 | 2199. | 0.17 | 3425. | 0.05 |
| 974. | 0.64 | 2200. | 0.17 | 3426. | 0.05 |
| 975. | 0.64 | 2201. | 0.17 | 3427. | 0.05 |
| 976. | 0.64 | 2202. | 0.17 | 3428. | 0.05 |
| 977. | 0.64 | 2203. | 0.17 | 3429. | 0.05 |
| 978. | 0.64 | 2204. | 0.17 | 3430. | 0.05 |
| 979. | 0.64 | 2205. | 0.17 | 3431. | 0.05 |
| 980. | 0.64 | 2206. | 0.17 | 3432. | 0.05 |
| 981. | 0.64 | 2207. | 0.17 | 3433. | 0.05 |
| 982. | 0.64 | 2208. | 0.17 | 3434. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 983. | 0.65 | 2209. | 0.17 | 3435. | 0.05 |
| 984. | 0.65 | 2210. | 0.17 | 3436. | 0.05 |
| 985. | 0.64 | 2211. | 0.17 | 3437. | 0.05 |
| 986. | 0.65 | 2212. | 0.17 | 3438. | 0.05 |
| 987. | 0.65 | 2213. | 0.17 | 3439. | 0.05 |
| 988. | 0.65 | 2214. | 0.16 | 3440. | 0.05 |
| 989. | 0.65 | 2215. | 0.16 | 3441. | 0.05 |
| 990. | 0.66 | 2216. | 0.16 | 3442. | 0.05 |
| 991. | 0.65 | 2217. | 0.16 | 3443. | 0.05 |
| 992. | 0.65 | 2218. | 0.16 | 3444. | 0.05 |
| 993. | 0.65 | 2219. | 0.16 | 3445. | 0.05 |
| 994. | 0.65 | 2220. | 0.16 | 3446. | 0.05 |
| 995. | 0.66 | 2221. | 0.16 | 3447. | 0.05 |
| 996. | 0.65 | 2222. | 0.16 | 3448. | 0.05 |
| 997. | 0.66 | 2223. | 0.16 | 3449. | 0.05 |
| 998. | 0.66 | 2224. | 0.16 | 3450. | 0.05 |
| 999. | 0.65 | 2225. | 0.16 | 3451. | 0.05 |
| 1000. | 0.66 | 2226. | 0.16 | 3452. | 0.05 |
| 1001. | 0.66 | 2227. | 0.16 | 3453. | 0.05 |
| 1002. | 0.66 | 2228. | 0.16 | 3454. | 0.05 |
| 1003. | 0.66 | 2229. | 0.16 | 3455. | 0.05 |
| 1004. | 0.66 | 2230. | 0.16 | 3456. | 0.05 |
| 1005. | 0.66 | 2231. | 0.16 | 3457. | 0.05 |
| 1006. | 0.66 | 2232. | 0.16 | 3458. | 0.05 |
| 1007. | 0.66 | 2233. | 0.16 | 3459. | 0.05 |
| 1008. | 0.66 | 2234. | 0.16 | 3460. | 0.05 |
| 1009. | 0.66 | 2235. | 0.16 | 3461. | 0.05 |
| 1010. | 0.66 | 2236. | 0.16 | 3462. | 0.05 |
| 1011. | 0.66 | 2237. | 0.16 | 3463. | 0.05 |
| 1012. | 0.66 | 2238. | 0.16 | 3464. | 0.05 |
| 1013. | 0.66 | 2239. | 0.16 | 3465. | 0.05 |
| 1014. | 0.66 | 2240. | 0.15 | 3466. | 0.05 |
| 1015. | 0.66 | 2241. | 0.15 | 3467. | 0.05 |
| 1016. | 0.66 | 2242. | 0.15 | 3468. | 0.05 |
| 1017. | 0.66 | 2243. | 0.15 | 3469. | 0.05 |
| 1018. | 0.66 | 2244. | 0.15 | 3470. | 0.05 |
| 1019. | 0.66 | 2245. | 0.15 | 3471. | 0.05 |
| 1020. | 0.66 | 2246. | 0.15 | 3472. | 0.05 |
| 1021. | 0.66 | 2247. | 0.15 | 3473. | 0.05 |
| 1022. | 0.66 | 2248. | 0.15 | 3474. | 0.05 |
| 1023. | 0.66 | 2249. | 0.15 | 3475. | 0.05 |
| 1024. | 0.66 | 2250. | 0.15 | 3476. | 0.05 |
| 1025. | 0.65 | 2251. | 0.15 | 3477. | 0.05 |
| 1026. | 0.66 | 2252. | 0.15 | 3478. | 0.05 |
| 1027. | 0.66 | 2253. | 0.15 | 3479. | 0.05 |
| 1028. | 0.66 | 2254. | 0.15 | 3480. | 0.05 |
| 1029. | 0.66 | 2255. | 0.15 | 3481. | 0.05 |
| 1030. | 0.66 | 2256. | 0.15 | 3482. | 0.05 |
| 1031. | 0.66 | 2257. | 0.15 | 3483. | 0.05 |
| 1032. | 0.65 | 2258. | 0.15 | 3484. | 0.05 |
| 1033. | 0.66 | 2259. | 0.15 | 3485. | 0.05 |
| 1034. | 0.65 | 2260. | 0.15 | 3486. | 0.05 |
| 1035. | 0.66 | 2261. | 0.15 | 3487. | 0.05 |
| 1036. | 0.66 | 2262. | 0.15 | 3488. | 0.05 |
| 1037. | 0.66 | 2263. | 0.15 | 3489. | 0.05 |
| 1038. | 0.66 | 2264. | 0.15 | 3490. | 0.05 |
| 1039. | 0.66 | 2265. | 0.15 | 3491. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1040. | 0.66 | 2266. | 0.15 | 3492. | 0.05 |
| 1041. | 0.66 | 2267. | 0.15 | 3493. | 0.05 |
| 1042. | 0.66 | 2268. | 0.15 | 3494. | 0.05 |
| 1043. | 0.66 | 2269. | 0.15 | 3495. | 0.05 |
| 1044. | 0.66 | 2270. | 0.15 | 3496. | 0.05 |
| 1045. | 0.65 | 2271. | 0.14 | 3497. | 0.05 |
| 1046. | 0.66 | 2272. | 0.14 | 3498. | 0.05 |
| 1047. | 0.66 | 2273. | 0.14 | 3499. | 0.05 |
| 1048. | 0.66 | 2274. | 0.14 | 3500. | 0.05 |
| 1049. | 0.66 | 2275. | 0.14 | 3501. | 0.05 |
| 1050. | 0.65 | 2276. | 0.14 | 3502. | 0.05 |
| 1051. | 0.66 | 2277. | 0.14 | 3503. | 0.05 |
| 1052. | 0.65 | 2278. | 0.14 | 3504. | 0.05 |
| 1053. | 0.65 | 2279. | 0.14 | 3505. | 0.05 |
| 1054. | 0.66 | 2280. | 0.14 | 3506. | 0.05 |
| 1055. | 0.66 | 2281. | 0.14 | 3507. | 0.05 |
| 1056. | 0.66 | 2282. | 0.14 | 3508. | 0.05 |
| 1057. | 0.66 | 2283. | 0.14 | 3509. | 0.05 |
| 1058. | 0.66 | 2284. | 0.14 | 3510. | 0.05 |
| 1059. | 0.66 | 2285. | 0.14 | 3511. | 0.05 |
| 1060. | 0.66 | 2286. | 0.14 | 3512. | 0.05 |
| 1061. | 0.66 | 2287. | 0.14 | 3513. | 0.05 |
| 1062. | 0.66 | 2288. | 0.14 | 3514. | 0.05 |
| 1063. | 0.66 | 2289. | 0.14 | 3515. | 0.05 |
| 1064. | 0.65 | 2290. | 0.14 | 3516. | 0.05 |
| 1065. | 0.66 | 2291. | 0.14 | 3517. | 0.05 |
| 1066. | 0.66 | 2292. | 0.14 | 3518. | 0.05 |
| 1067. | 0.66 | 2293. | 0.14 | 3519. | 0.05 |
| 1068. | 0.66 | 2294. | 0.14 | 3520. | 0.05 |
| 1069. | 0.65 | 2295. | 0.14 | 3521. | 0.05 |
| 1070. | 0.66 | 2296. | 0.14 | 3522. | 0.05 |
| 1071. | 0.66 | 2297. | 0.14 | 3523. | 0.05 |
| 1072. | 0.66 | 2298. | 0.14 | 3524. | 0.05 |
| 1073. | 0.66 | 2299. | 0.14 | 3525. | 0.05 |
| 1074. | 0.66 | 2300. | 0.14 | 3526. | 0.05 |
| 1075. | 0.66 | 2301. | 0.14 | 3527. | 0.05 |
| 1076. | 0.66 | 2302. | 0.14 | 3528. | 0.05 |
| 1077. | 0.65 | 2303. | 0.14 | 3529. | 0.05 |
| 1078. | 0.66 | 2304. | 0.14 | 3530. | 0.05 |
| 1079. | 0.66 | 2305. | 0.14 | 3531. | 0.05 |
| 1080. | 0.66 | 2306. | 0.14 | 3532. | 0.05 |
| 1081. | 0.66 | 2307. | 0.14 | 3533. | 0.05 |
| 1082. | 0.66 | 2308. | 0.14 | 3534. | 0.05 |
| 1083. | 0.66 | 2309. | 0.13 | 3535. | 0.05 |
| 1084. | 0.66 | 2310. | 0.13 | 3536. | 0.05 |
| 1085. | 0.66 | 2311. | 0.13 | 3537. | 0.05 |
| 1086. | 0.66 | 2312. | 0.13 | 3538. | 0.05 |
| 1087. | 0.67 | 2313. | 0.13 | 3539. | 0.05 |
| 1088. | 0.66 | 2314. | 0.13 | 3540. | 0.05 |
| 1089. | 0.66 | 2315. | 0.13 | 3541. | 0.05 |
| 1090. | 0.66 | 2316. | 0.13 | 3542. | 0.05 |
| 1091. | 0.66 | 2317. | 0.13 | 3543. | 0.05 |
| 1092. | 0.66 | 2318. | 0.13 | 3544. | 0.05 |
| 1093. | 0.66 | 2319. | 0.13 | 3545. | 0.05 |
| 1094. | 0.66 | 2320. | 0.13 | 3546. | 0.05 |
| 1095. | 0.66 | 2321. | 0.13 | 3547. | 0.05 |
| 1096. | 0.66 | 2322. | 0.13 | 3548. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1097. | 0.66 | 2323. | 0.13 | 3549. | 0.05 |
| 1098. | 0.66 | 2324. | 0.13 | 3550. | 0.05 |
| 1099. | 0.65 | 2325. | 0.13 | 3551. | 0.05 |
| 1100. | 0.65 | 2326. | 0.13 | 3552. | 0.05 |
| 1101. | 0.66 | 2327. | 0.13 | 3553. | 0.05 |
| 1102. | 0.66 | 2328. | 0.13 | 3554. | 0.05 |
| 1103. | 0.65 | 2329. | 0.13 | 3555. | 0.05 |
| 1104. | 0.66 | 2330. | 0.13 | 3556. | 0.05 |
| 1105. | 0.65 | 2331. | 0.13 | 3557. | 0.05 |
| 1106. | 0.65 | 2332. | 0.13 | 3558. | 0.05 |
| 1107. | 0.65 | 2333. | 0.13 | 3559. | 0.05 |
| 1108. | 0.66 | 2334. | 0.13 | 3560. | 0.05 |
| 1109. | 0.66 | 2335. | 0.13 | 3561. | 0.05 |
| 1110. | 0.66 | 2336. | 0.13 | 3562. | 0.05 |
| 1111. | 0.65 | 2337. | 0.13 | 3563. | 0.05 |
| 1112. | 0.66 | 2338. | 0.13 | 3564. | 0.05 |
| 1113. | 0.66 | 2339. | 0.13 | 3565. | 0.05 |
| 1114. | 0.66 | 2340. | 0.13 | 3566. | 0.05 |
| 1115. | 0.66 | 2341. | 0.13 | 3567. | 0.05 |
| 1116. | 0.66 | 2342. | 0.13 | 3568. | 0.05 |
| 1117. | 0.66 | 2343. | 0.13 | 3569. | 0.05 |
| 1118. | 0.66 | 2344. | 0.13 | 3570. | 0.05 |
| 1119. | 0.66 | 2345. | 0.13 | 3571. | 0.05 |
| 1120. | 0.66 | 2346. | 0.13 | 3572. | 0.05 |
| 1121. | 0.66 | 2347. | 0.13 | 3573. | 0.05 |
| 1122. | 0.66 | 2348. | 0.13 | 3574. | 0.05 |
| 1123. | 0.66 | 2349. | 0.13 | 3575. | 0.05 |
| 1124. | 0.66 | 2350. | 0.13 | 3576. | 0.05 |
| 1125. | 0.66 | 2351. | 0.13 | 3577. | 0.05 |
| 1126. | 0.66 | 2352. | 0.13 | 3578. | 0.05 |
| 1127. | 0.66 | 2353. | 0.13 | 3579. | 0.05 |
| 1128. | 0.66 | 2354. | 0.12 | 3580. | 0.05 |
| 1129. | 0.66 | 2355. | 0.12 | 3581. | 0.05 |
| 1130. | 0.66 | 2356. | 0.12 | 3582. | 0.05 |
| 1131. | 0.66 | 2357. | 0.12 | 3583. | 0.05 |
| 1132. | 0.66 | 2358. | 0.12 | 3584. | 0.05 |
| 1133. | 0.66 | 2359. | 0.12 | 3585. | 0.05 |
| 1134. | 0.66 | 2360. | 0.12 | 3586. | 0.05 |
| 1135. | 0.66 | 2361. | 0.12 | 3587. | 0.05 |
| 1136. | 0.66 | 2362. | 0.12 | 3588. | 0.05 |
| 1137. | 0.66 | 2363. | 0.12 | 3589. | 0.05 |
| 1138. | 0.66 | 2364. | 0.12 | 3590. | 0.05 |
| 1139. | 0.66 | 2365. | 0.12 | 3591. | 0.05 |
| 1140. | 0.65 | 2366. | 0.12 | 3592. | 0.05 |
| 1141. | 0.66 | 2367. | 0.12 | 3593. | 0.05 |
| 1142. | 0.66 | 2368. | 0.12 | 3594. | 0.05 |
| 1143. | 0.65 | 2369. | 0.12 | 3595. | 0.05 |
| 1144. | 0.66 | 2370. | 0.12 | 3596. | 0.05 |
| 1145. | 0.66 | 2371. | 0.12 | 3597. | 0.05 |
| 1146. | 0.66 | 2372. | 0.12 | 3598. | 0.05 |
| 1147. | 0.66 | 2373. | 0.12 | 3599. | 0.05 |
| 1148. | 0.66 | 2374. | 0.12 | 3600. | 0.05 |
| 1149. | 0.66 | 2375. | 0.12 | 3601. | 0.05 |
| 1150. | 0.66 | 2376. | 0.12 | 3602. | 0.05 |
| 1151. | 0.66 | 2377. | 0.12 | 3603. | 0.05 |
| 1152. | 0.66 | 2378. | 0.12 | 3604. | 0.05 |
| 1153. | 0.66 | 2379. | 0.12 | 3605. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1154. | 0.66 | 2380. | 0.12 | 3606. | 0.05 |
| 1155. | 0.65 | 2381. | 0.12 | 3607. | 0.05 |
| 1156. | 0.66 | 2382. | 0.12 | 3608. | 0.05 |
| 1157. | 0.66 | 2383. | 0.12 | 3609. | 0.05 |
| 1158. | 0.66 | 2384. | 0.12 | 3610. | 0.05 |
| 1159. | 0.66 | 2385. | 0.12 | 3611. | 0.05 |
| 1160. | 0.66 | 2386. | 0.12 | 3612. | 0.05 |
| 1161. | 0.66 | 2387. | 0.12 | 3613. | 0.05 |
| 1162. | 0.66 | 2388. | 0.12 | 3614. | 0.05 |
| 1163. | 0.66 | 2389. | 0.12 | 3615. | 0.05 |
| 1164. | 0.66 | 2390. | 0.12 | 3616. | 0.05 |
| 1165. | 0.66 | 2391. | 0.12 | 3617. | 0.05 |
| 1166. | 0.66 | 2392. | 0.12 | 3618. | 0.05 |
| 1167. | 0.66 | 2393. | 0.12 | 3619. | 0.05 |
| 1168. | 0.66 | 2394. | 0.12 | 3620. | 0.05 |
| 1169. | 0.67 | 2395. | 0.12 | 3621. | 0.05 |
| 1170. | 0.67 | 2396. | 0.12 | 3622. | 0.05 |
| 1171. | 0.67 | 2397. | 0.12 | 3623. | 0.05 |
| 1172. | 0.67 | 2398. | 0.12 | 3624. | 0.05 |
| 1173. | 0.67 | 2399. | 0.12 | 3625. | 0.05 |
| 1174. | 0.67 | 2400. | 0.12 | 3626. | 0.05 |
| 1175. | 0.67 | 2401. | 0.12 | 3627. | 0.05 |
| 1176. | 0.67 | 2402. | 0.12 | 3628. | 0.05 |
| 1177. | 0.67 | 2403. | 0.12 | 3629. | 0.05 |
| 1178. | 0.68 | 2404. | 0.12 | 3630. | 0.05 |
| 1179. | 0.67 | 2405. | 0.12 | 3631. | 0.05 |
| 1180. | 0.67 | 2406. | 0.12 | 3632. | 0.05 |
| 1181. | 0.68 | 2407. | 0.12 | 3633. | 0.05 |
| 1182. | 0.68 | 2408. | 0.12 | 3634. | 0.05 |
| 1183. | 0.68 | 2409. | 0.12 | 3635. | 0.05 |
| 1184. | 0.68 | 2410. | 0.12 | 3636. | 0.05 |
| 1185. | 0.68 | 2411. | 0.12 | 3637. | 0.05 |
| 1186. | 0.68 | 2412. | 0.12 | 3638. | 0.05 |
| 1187. | 0.68 | 2413. | 0.12 | 3639. | 0.05 |
| 1188. | 0.68 | 2414. | 0.11 | 3640. | 0.05 |
| 1189. | 0.68 | 2415. | 0.11 | 3641. | 0.05 |
| 1190. | 0.68 | 2416. | 0.11 | 3642. | 0.05 |
| 1191. | 0.68 | 2417. | 0.11 | 3643. | 0.05 |
| 1192. | 0.68 | 2418. | 0.11 | 3644. | 0.05 |
| 1193. | 0.68 | 2419. | 0.11 | 3645. | 0.05 |
| 1194. | 0.68 | 2420. | 0.11 | 3646. | 0.05 |
| 1195. | 0.68 | 2421. | 0.11 | 3647. | 0.05 |
| 1196. | 0.68 | 2422. | 0.11 | 3648. | 0.05 |
| 1197. | 0.68 | 2423. | 0.11 | 3649. | 0.05 |
| 1198. | 0.68 | 2424. | 0.11 | 3650. | 0.05 |
| 1199. | 0.68 | 2425. | 0.11 | 3651. | 0.05 |
| 1200. | 0.68 | 2426. | 0.11 | 3652. | 0.05 |
| 1201. | 0.68 | 2427. | 0.11 | 3653. | 0.05 |
| 1202. | 0.68 | 2428. | 0.11 | 3654. | 0.05 |
| 1203. | 0.68 | 2429. | 0.11 | 3655. | 0.05 |
| 1204. | 0.68 | 2430. | 0.11 | 3656. | 0.05 |
| 1205. | 0.68 | 2431. | 0.11 | 3657. | 0.05 |
| 1206. | 0.68 | 2432. | 0.11 | 3658. | 0.05 |
| 1207. | 0.68 | 2433. | 0.11 | 3659. | 0.05 |
| 1208. | 0.68 | 2434. | 0.11 | 3660. | 0.05 |
| 1209. | 0.68 | 2435. | 0.11 | 3661. | 0.05 |
| 1210. | 0.68 | 2436. | 0.11 | 3662. | 0.05 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1211. | 0.68 | 2437. | 0.11 | 3663. | 0.05 |
| 1212. | 0.68 | 2438. | 0.11 | 3664. | 0.05 |
| 1213. | 0.68 | 2439. | 0.11 | 3665. | 0.05 |
| 1214. | 0.68 | 2440. | 0.11 | 3666. | 0.05 |
| 1215. | 0.68 | 2441. | 0.11 | 3667. | 0.05 |
| 1216. | 0.68 | 2442. | 0.11 | 3668. | 0.05 |
| 1217. | 0.68 | 2443. | 0.11 | 3669. | 0.05 |
| 1218. | 0.68 | 2444. | 0.11 | 3670. | 0.05 |
| 1219. | 0.68 | 2445. | 0.11 | 3671. | 0.05 |
| 1220. | 0.68 | 2446. | 0.11 | 3672. | 0.05 |
| 1221. | 0.68 | 2447. | 0.11 | 3673. | 0.05 |
| 1222. | 0.68 | 2448. | 0.11 | 3674. | 0.05 |
| 1223. | 0.68 | 2449. | 0.11 | 3675. | 0.05 |
| 1224. | 0.68 | 2450. | 0.11 | 3676. | 0.05 |
| 1225. | 0.69 | 2451. | 0.11 | 3677. | 0.05 |
| 1226. | 0.68 | 2452. | 0.11 | 3678. | 0.05 |

Observation Well No. 3: MW23-03

X Location: 0. m

Y Location: 2. m

Radial distance from MW23-04: 18.11077028 m

Partially Penetrating Well

Depth to Top of Screen: 6.1 m

Depth to Bottom of Screen: 9.1 m

No. of Observations: 3678

Observation Data

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1. | 0.0001 | 1227. | 0.1613 | 2453. | 0.125 |
| 2. | 0.0002 | 1228. | 0.1615 | 2454. | 0.1249 |
| 3. | 0. | 1229. | 0.1614 | 2455. | 0.1248 |
| 4. | 0.0003 | 1230. | 0.1615 | 2456. | 0.1247 |
| 5. | 0. | 1231. | 0.1615 | 2457. | 0.1245 |
| 6. | 0. | 1232. | 0.1617 | 2458. | 0.1244 |
| 7. | 0.0001 | 1233. | 0.1616 | 2459. | 0.1244 |
| 8. | 0.0002 | 1234. | 0.1619 | 2460. | 0.124 |
| 9. | 0.0003 | 1235. | 0.1618 | 2461. | 0.1241 |
| 10. | 0.0003 | 1236. | 0.1616 | 2462. | 0.1238 |
| 11. | 0.0001 | 1237. | 0.1618 | 2463. | 0.1237 |
| 12. | 0.0003 | 1238. | 0.1618 | 2464. | 0.1238 |
| 13. | 0.0003 | 1239. | 0.1621 | 2465. | 0.1236 |
| 14. | 0.0004 | 1240. | 0.1619 | 2466. | 0.1233 |
| 15. | 0.0004 | 1241. | 0.1619 | 2467. | 0.1232 |
| 16. | 0.0004 | 1242. | 0.1622 | 2468. | 0.1231 |
| 17. | 0.0005 | 1243. | 0.1622 | 2469. | 0.1231 |
| 18. | 0.001 | 1244. | 0.1622 | 2470. | 0.123 |
| 19. | 0.001 | 1245. | 0.1623 | 2471. | 0.1228 |
| 20. | 0.0009 | 1246. | 0.1623 | 2472. | 0.1227 |
| 21. | 0.001 | 1247. | 0.1627 | 2473. | 0.1224 |
| 22. | 0.0013 | 1248. | 0.1628 | 2474. | 0.1223 |
| 23. | 0.0016 | 1249. | 0.1625 | 2475. | 0.1221 |
| 24. | 0.0018 | 1250. | 0.1629 | 2476. | 0.1219 |
| 25. | 0.0021 | 1251. | 0.1628 | 2477. | 0.122 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 26. | 0.0023 | 1252. | 0.163 | 2478. | 0.122 |
| 27. | 0.0025 | 1253. | 0.163 | 2479. | 0.1218 |
| 28. | 0.0028 | 1254. | 0.163 | 2480. | 0.1216 |
| 29. | 0.003 | 1255. | 0.1632 | 2481. | 0.1214 |
| 30. | 0.0034 | 1256. | 0.163 | 2482. | 0.1212 |
| 31. | 0.0035 | 1257. | 0.1631 | 2483. | 0.1212 |
| 32. | 0.0037 | 1258. | 0.1631 | 2484. | 0.1212 |
| 33. | 0.0041 | 1259. | 0.1633 | 2485. | 0.121 |
| 34. | 0.0043 | 1260. | 0.1633 | 2486. | 0.1207 |
| 35. | 0.0044 | 1261. | 0.1632 | 2487. | 0.1209 |
| 36. | 0.005 | 1262. | 0.1635 | 2488. | 0.1209 |
| 37. | 0.0053 | 1263. | 0.1635 | 2489. | 0.1206 |
| 38. | 0.0056 | 1264. | 0.1635 | 2490. | 0.1205 |
| 39. | 0.0059 | 1265. | 0.1635 | 2491. | 0.1202 |
| 40. | 0.0064 | 1266. | 0.1638 | 2492. | 0.1202 |
| 41. | 0.0065 | 1267. | 0.1639 | 2493. | 0.1201 |
| 42. | 0.0067 | 1268. | 0.1636 | 2494. | 0.1202 |
| 43. | 0.0072 | 1269. | 0.1638 | 2495. | 0.1199 |
| 44. | 0.0077 | 1270. | 0.164 | 2496. | 0.1199 |
| 45. | 0.008 | 1271. | 0.164 | 2497. | 0.1197 |
| 46. | 0.0081 | 1272. | 0.1641 | 2498. | 0.1196 |
| 47. | 0.0085 | 1273. | 0.1643 | 2499. | 0.1196 |
| 48. | 0.0091 | 1274. | 0.1642 | 2500. | 0.1193 |
| 49. | 0.0094 | 1275. | 0.1645 | 2501. | 0.1191 |
| 50. | 0.0094 | 1276. | 0.1643 | 2502. | 0.1193 |
| 51. | 0.0101 | 1277. | 0.1645 | 2503. | 0.1191 |
| 52. | 0.0101 | 1278. | 0.1644 | 2504. | 0.1188 |
| 53. | 0.0104 | 1279. | 0.1646 | 2505. | 0.119 |
| 54. | 0.0108 | 1280. | 0.1646 | 2506. | 0.1186 |
| 55. | 0.011 | 1281. | 0.1646 | 2507. | 0.1185 |
| 56. | 0.0115 | 1282. | 0.1644 | 2508. | 0.1183 |
| 57. | 0.0118 | 1283. | 0.1648 | 2509. | 0.1183 |
| 58. | 0.012 | 1284. | 0.1649 | 2510. | 0.1184 |
| 59. | 0.0127 | 1285. | 0.1646 | 2511. | 0.1181 |
| 60. | 0.0127 | 1286. | 0.165 | 2512. | 0.118 |
| 61. | 0.0133 | 1287. | 0.165 | 2513. | 0.1182 |
| 62. | 0.0137 | 1288. | 0.165 | 2514. | 0.1179 |
| 63. | 0.0139 | 1289. | 0.1652 | 2515. | 0.1177 |
| 64. | 0.0143 | 1290. | 0.1652 | 2516. | 0.1176 |
| 65. | 0.0148 | 1291. | 0.1653 | 2517. | 0.1176 |
| 66. | 0.0149 | 1292. | 0.1651 | 2518. | 0.1177 |
| 67. | 0.0153 | 1293. | 0.1653 | 2519. | 0.1174 |
| 68. | 0.0158 | 1294. | 0.1655 | 2520. | 0.1173 |
| 69. | 0.0163 | 1295. | 0.1653 | 2521. | 0.1171 |
| 70. | 0.0165 | 1296. | 0.1655 | 2522. | 0.1172 |
| 71. | 0.0169 | 1297. | 0.1656 | 2523. | 0.1169 |
| 72. | 0.0176 | 1298. | 0.1655 | 2524. | 0.1168 |
| 73. | 0.0176 | 1299. | 0.1655 | 2525. | 0.1167 |
| 74. | 0.018 | 1300. | 0.1657 | 2526. | 0.1168 |
| 75. | 0.0184 | 1301. | 0.166 | 2527. | 0.1166 |
| 76. | 0.0187 | 1302. | 0.1662 | 2528. | 0.1165 |
| 77. | 0.0192 | 1303. | 0.1659 | 2529. | 0.1165 |
| 78. | 0.0194 | 1304. | 0.166 | 2530. | 0.1163 |
| 79. | 0.0198 | 1305. | 0.1659 | 2531. | 0.1162 |
| 80. | 0.0203 | 1306. | 0.1661 | 2532. | 0.116 |
| 81. | 0.0205 | 1307. | 0.1662 | 2533. | 0.1159 |
| 82. | 0.0212 | 1308. | 0.1664 | 2534. | 0.1157 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 83. | 0.0215 | 1309. | 0.1663 | 2535. | 0.1158 |
| 84. | 0.0217 | 1310. | 0.1664 | 2536. | 0.1156 |
| 85. | 0.0222 | 1311. | 0.1664 | 2537. | 0.1154 |
| 86. | 0.0226 | 1312. | 0.1663 | 2538. | 0.1153 |
| 87. | 0.0227 | 1313. | 0.1664 | 2539. | 0.1154 |
| 88. | 0.0231 | 1314. | 0.1662 | 2540. | 0.115 |
| 89. | 0.0234 | 1315. | 0.1665 | 2541. | 0.1149 |
| 90. | 0.0238 | 1316. | 0.1666 | 2542. | 0.1149 |
| 91. | 0.0241 | 1317. | 0.1666 | 2543. | 0.1148 |
| 92. | 0.0245 | 1318. | 0.1667 | 2544. | 0.1147 |
| 93. | 0.0248 | 1319. | 0.1669 | 2545. | 0.1149 |
| 94. | 0.0252 | 1320. | 0.1667 | 2546. | 0.1145 |
| 95. | 0.0254 | 1321. | 0.1667 | 2547. | 0.1145 |
| 96. | 0.0257 | 1322. | 0.1668 | 2548. | 0.1143 |
| 97. | 0.0263 | 1323. | 0.1668 | 2549. | 0.1144 |
| 98. | 0.0266 | 1324. | 0.167 | 2550. | 0.1143 |
| 99. | 0.0269 | 1325. | 0.167 | 2551. | 0.1141 |
| 100. | 0.0272 | 1326. | 0.167 | 2552. | 0.114 |
| 101. | 0.0276 | 1327. | 0.1671 | 2553. | 0.1138 |
| 102. | 0.028 | 1328. | 0.1671 | 2554. | 0.1138 |
| 103. | 0.0284 | 1329. | 0.1673 | 2555. | 0.1137 |
| 104. | 0.0287 | 1330. | 0.1673 | 2556. | 0.1136 |
| 105. | 0.0292 | 1331. | 0.1673 | 2557. | 0.1135 |
| 106. | 0.0297 | 1332. | 0.1674 | 2558. | 0.1134 |
| 107. | 0.0299 | 1333. | 0.1674 | 2559. | 0.1136 |
| 108. | 0.0302 | 1334. | 0.1673 | 2560. | 0.1133 |
| 109. | 0.0302 | 1335. | 0.1677 | 2561. | 0.1131 |
| 110. | 0.0306 | 1336. | 0.1675 | 2562. | 0.1131 |
| 111. | 0.0309 | 1337. | 0.1675 | 2563. | 0.1129 |
| 112. | 0.0312 | 1338. | 0.1677 | 2564. | 0.1127 |
| 113. | 0.0317 | 1339. | 0.1676 | 2565. | 0.1126 |
| 114. | 0.0319 | 1340. | 0.1676 | 2566. | 0.1125 |
| 115. | 0.0323 | 1341. | 0.1674 | 2567. | 0.1125 |
| 116. | 0.0326 | 1342. | 0.1678 | 2568. | 0.1124 |
| 117. | 0.0329 | 1343. | 0.1676 | 2569. | 0.1122 |
| 118. | 0.033 | 1344. | 0.1677 | 2570. | 0.1122 |
| 119. | 0.0335 | 1345. | 0.1682 | 2571. | 0.1121 |
| 120. | 0.0339 | 1346. | 0.168 | 2572. | 0.1119 |
| 121. | 0.0341 | 1347. | 0.1682 | 2573. | 0.112 |
| 122. | 0.0347 | 1348. | 0.1683 | 2574. | 0.1118 |
| 123. | 0.0349 | 1349. | 0.1685 | 2575. | 0.1117 |
| 124. | 0.0352 | 1350. | 0.1685 | 2576. | 0.1117 |
| 125. | 0.0355 | 1351. | 0.1685 | 2577. | 0.1116 |
| 126. | 0.036 | 1352. | 0.1685 | 2578. | 0.1115 |
| 127. | 0.0357 | 1353. | 0.1687 | 2579. | 0.1114 |
| 128. | 0.0364 | 1354. | 0.1687 | 2580. | 0.1113 |
| 129. | 0.0367 | 1355. | 0.1685 | 2581. | 0.1112 |
| 130. | 0.0369 | 1356. | 0.1687 | 2582. | 0.1112 |
| 131. | 0.0373 | 1357. | 0.1687 | 2583. | 0.1112 |
| 132. | 0.0373 | 1358. | 0.1688 | 2584. | 0.1109 |
| 133. | 0.0378 | 1359. | 0.169 | 2585. | 0.111 |
| 134. | 0.038 | 1360. | 0.169 | 2586. | 0.1111 |
| 135. | 0.0383 | 1361. | 0.169 | 2587. | 0.1109 |
| 136. | 0.0385 | 1362. | 0.1691 | 2588. | 0.1111 |
| 137. | 0.0387 | 1363. | 0.1691 | 2589. | 0.1108 |
| 138. | 0.0391 | 1364. | 0.1694 | 2590. | 0.1107 |
| 139. | 0.0393 | 1365. | 0.1691 | 2591. | 0.1106 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 140. | 0.0396 | 1366. | 0.1693 | 2592. | 0.1108 |
| 141. | 0.0399 | 1367. | 0.1692 | 2593. | 0.1106 |
| 142. | 0.0402 | 1368. | 0.1694 | 2594. | 0.1104 |
| 143. | 0.0407 | 1369. | 0.1696 | 2595. | 0.1106 |
| 144. | 0.0409 | 1370. | 0.1695 | 2596. | 0.1105 |
| 145. | 0.0411 | 1371. | 0.1694 | 2597. | 0.1102 |
| 146. | 0.0415 | 1372. | 0.1695 | 2598. | 0.1103 |
| 147. | 0.0416 | 1373. | 0.1695 | 2599. | 0.11 |
| 148. | 0.0419 | 1374. | 0.1695 | 2600. | 0.1097 |
| 149. | 0.0422 | 1375. | 0.1697 | 2601. | 0.1098 |
| 150. | 0.0427 | 1376. | 0.1699 | 2602. | 0.1098 |
| 151. | 0.043 | 1377. | 0.1697 | 2603. | 0.1096 |
| 152. | 0.0435 | 1378. | 0.1696 | 2604. | 0.1096 |
| 153. | 0.0435 | 1379. | 0.1698 | 2605. | 0.1096 |
| 154. | 0.0438 | 1380. | 0.17 | 2606. | 0.1092 |
| 155. | 0.0441 | 1381. | 0.1698 | 2607. | 0.1092 |
| 156. | 0.0445 | 1382. | 0.1698 | 2608. | 0.1091 |
| 157. | 0.0449 | 1383. | 0.1699 | 2609. | 0.109 |
| 158. | 0.0451 | 1384. | 0.17 | 2610. | 0.1089 |
| 159. | 0.0453 | 1385. | 0.17 | 2611. | 0.1086 |
| 160. | 0.0454 | 1386. | 0.1701 | 2612. | 0.1085 |
| 161. | 0.0457 | 1387. | 0.1707 | 2613. | 0.1084 |
| 162. | 0.0459 | 1388. | 0.1704 | 2614. | 0.1084 |
| 163. | 0.0464 | 1389. | 0.1708 | 2615. | 0.1084 |
| 164. | 0.0465 | 1390. | 0.1705 | 2616. | 0.1082 |
| 165. | 0.047 | 1391. | 0.1707 | 2617. | 0.1081 |
| 166. | 0.0471 | 1392. | 0.1709 | 2618. | 0.1082 |
| 167. | 0.0475 | 1393. | 0.1706 | 2619. | 0.1079 |
| 168. | 0.0476 | 1394. | 0.1708 | 2620. | 0.1079 |
| 169. | 0.0481 | 1395. | 0.1709 | 2621. | 0.1079 |
| 170. | 0.0482 | 1396. | 0.1711 | 2622. | 0.1075 |
| 171. | 0.0484 | 1397. | 0.1708 | 2623. | 0.1077 |
| 172. | 0.0487 | 1398. | 0.171 | 2624. | 0.1075 |
| 173. | 0.0491 | 1399. | 0.171 | 2625. | 0.1074 |
| 174. | 0.0492 | 1400. | 0.1709 | 2626. | 0.1074 |
| 175. | 0.0495 | 1401. | 0.171 | 2627. | 0.1073 |
| 176. | 0.0497 | 1402. | 0.1711 | 2628. | 0.1071 |
| 177. | 0.0498 | 1403. | 0.1713 | 2629. | 0.1071 |
| 178. | 0.0502 | 1404. | 0.1714 | 2630. | 0.107 |
| 179. | 0.0501 | 1405. | 0.1714 | 2631. | 0.1068 |
| 180. | 0.0505 | 1406. | 0.1716 | 2632. | 0.1069 |
| 181. | 0.0507 | 1407. | 0.1715 | 2633. | 0.1065 |
| 182. | 0.051 | 1408. | 0.1715 | 2634. | 0.1066 |
| 183. | 0.0514 | 1409. | 0.1717 | 2635. | 0.1066 |
| 184. | 0.0514 | 1410. | 0.1716 | 2636. | 0.1064 |
| 185. | 0.0518 | 1411. | 0.1716 | 2637. | 0.1065 |
| 186. | 0.0521 | 1412. | 0.1717 | 2638. | 0.1064 |
| 187. | 0.0524 | 1413. | 0.1717 | 2639. | 0.1063 |
| 188. | 0.0527 | 1414. | 0.1718 | 2640. | 0.1063 |
| 189. | 0.0532 | 1415. | 0.1717 | 2641. | 0.1062 |
| 190. | 0.0532 | 1416. | 0.1719 | 2642. | 0.1061 |
| 191. | 0.0536 | 1417. | 0.1718 | 2643. | 0.106 |
| 192. | 0.0539 | 1418. | 0.1716 | 2644. | 0.106 |
| 193. | 0.0541 | 1419. | 0.1719 | 2645. | 0.1059 |
| 194. | 0.0545 | 1420. | 0.1719 | 2646. | 0.1058 |
| 195. | 0.0548 | 1421. | 0.172 | 2647. | 0.1059 |
| 196. | 0.0549 | 1422. | 0.1721 | 2648. | 0.1057 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 197. | 0.0554 | 1423. | 0.172 | 2649. | 0.1055 |
| 198. | 0.0554 | 1424. | 0.1723 | 2650. | 0.1055 |
| 199. | 0.0559 | 1425. | 0.1723 | 2651. | 0.1053 |
| 200. | 0.0559 | 1426. | 0.1723 | 2652. | 0.1051 |
| 201. | 0.0561 | 1427. | 0.1724 | 2653. | 0.1051 |
| 202. | 0.0567 | 1428. | 0.1724 | 2654. | 0.105 |
| 203. | 0.057 | 1429. | 0.1725 | 2655. | 0.1051 |
| 204. | 0.0574 | 1430. | 0.1725 | 2656. | 0.105 |
| 205. | 0.0579 | 1431. | 0.1725 | 2657. | 0.1048 |
| 206. | 0.0577 | 1432. | 0.1726 | 2658. | 0.1047 |
| 207. | 0.058 | 1433. | 0.1727 | 2659. | 0.1045 |
| 208. | 0.0585 | 1434. | 0.1726 | 2660. | 0.1046 |
| 209. | 0.0585 | 1435. | 0.1728 | 2661. | 0.1046 |
| 210. | 0.0589 | 1436. | 0.1726 | 2662. | 0.1044 |
| 211. | 0.0591 | 1437. | 0.1729 | 2663. | 0.1043 |
| 212. | 0.059 | 1438. | 0.1729 | 2664. | 0.1041 |
| 213. | 0.0595 | 1439. | 0.1729 | 2665. | 0.1041 |
| 214. | 0.0596 | 1440. | 0.1728 | 2666. | 0.1042 |
| 215. | 0.0596 | 1441. | 0.173 | 2667. | 0.1042 |
| 216. | 0.0601 | 1442. | 0.173 | 2668. | 0.1042 |
| 217. | 0.0601 | 1443. | 0.1731 | 2669. | 0.104 |
| 218. | 0.0607 | 1444. | 0.1731 | 2670. | 0.1039 |
| 219. | 0.0609 | 1445. | 0.1733 | 2671. | 0.1039 |
| 220. | 0.0611 | 1446. | 0.1734 | 2672. | 0.1039 |
| 221. | 0.0615 | 1447. | 0.1732 | 2673. | 0.1038 |
| 222. | 0.0616 | 1448. | 0.1734 | 2674. | 0.1039 |
| 223. | 0.0617 | 1449. | 0.1734 | 2675. | 0.1038 |
| 224. | 0.0619 | 1450. | 0.1735 | 2676. | 0.1037 |
| 225. | 0.0622 | 1451. | 0.1736 | 2677. | 0.1038 |
| 226. | 0.0626 | 1452. | 0.1736 | 2678. | 0.1037 |
| 227. | 0.0625 | 1453. | 0.1737 | 2679. | 0.1035 |
| 228. | 0.0628 | 1454. | 0.1736 | 2680. | 0.1035 |
| 229. | 0.0631 | 1455. | 0.1739 | 2681. | 0.1035 |
| 230. | 0.0633 | 1456. | 0.1737 | 2682. | 0.1036 |
| 231. | 0.0632 | 1457. | 0.174 | 2683. | 0.1032 |
| 232. | 0.0637 | 1458. | 0.1739 | 2684. | 0.1031 |
| 233. | 0.0638 | 1459. | 0.1742 | 2685. | 0.103 |
| 234. | 0.0639 | 1460. | 0.174 | 2686. | 0.1032 |
| 235. | 0.0644 | 1461. | 0.1742 | 2687. | 0.1031 |
| 236. | 0.0648 | 1462. | 0.1741 | 2688. | 0.103 |
| 237. | 0.0651 | 1463. | 0.1745 | 2689. | 0.1028 |
| 238. | 0.0653 | 1464. | 0.1742 | 2690. | 0.1027 |
| 239. | 0.0655 | 1465. | 0.1742 | 2691. | 0.1027 |
| 240. | 0.0657 | 1466. | 0.1743 | 2692. | 0.1024 |
| 241. | 0.066 | 1467. | 0.1745 | 2693. | 0.1025 |
| 242. | 0.0661 | 1468. | 0.1745 | 2694. | 0.1024 |
| 243. | 0.0664 | 1469. | 0.1744 | 2695. | 0.1024 |
| 244. | 0.0665 | 1470. | 0.1744 | 2696. | 0.1024 |
| 245. | 0.0669 | 1471. | 0.1747 | 2697. | 0.1024 |
| 246. | 0.067 | 1472. | 0.1749 | 2698. | 0.1023 |
| 247. | 0.0673 | 1473. | 0.1747 | 2699. | 0.102 |
| 248. | 0.0675 | 1474. | 0.1747 | 2700. | 0.102 |
| 249. | 0.0676 | 1475. | 0.1748 | 2701. | 0.102 |
| 250. | 0.0677 | 1476. | 0.1746 | 2702. | 0.1019 |
| 251. | 0.0677 | 1477. | 0.1748 | 2703. | 0.1018 |
| 252. | 0.0682 | 1478. | 0.1749 | 2704. | 0.1018 |
| 253. | 0.0683 | 1479. | 0.175 | 2705. | 0.1015 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 254. | 0.0685 | 1480. | 0.175 | 2706. | 0.1015 |
| 255. | 0.0688 | 1481. | 0.1751 | 2707. | 0.1014 |
| 256. | 0.0691 | 1482. | 0.1749 | 2708. | 0.1016 |
| 257. | 0.069 | 1483. | 0.175 | 2709. | 0.1013 |
| 258. | 0.0692 | 1484. | 0.175 | 2710. | 0.1012 |
| 259. | 0.0697 | 1485. | 0.175 | 2711. | 0.1011 |
| 260. | 0.0697 | 1486. | 0.1752 | 2712. | 0.1011 |
| 261. | 0.0698 | 1487. | 0.1752 | 2713. | 0.1009 |
| 262. | 0.0699 | 1488. | 0.1753 | 2714. | 0.1009 |
| 263. | 0.0702 | 1489. | 0.1751 | 2715. | 0.1009 |
| 264. | 0.0704 | 1490. | 0.1753 | 2716. | 0.1008 |
| 265. | 0.0707 | 1491. | 0.1756 | 2717. | 0.1007 |
| 266. | 0.0709 | 1492. | 0.1755 | 2718. | 0.1005 |
| 267. | 0.0714 | 1493. | 0.1754 | 2719. | 0.1007 |
| 268. | 0.0716 | 1494. | 0.1756 | 2720. | 0.1004 |
| 269. | 0.0716 | 1495. | 0.1758 | 2721. | 0.1006 |
| 270. | 0.0719 | 1496. | 0.1757 | 2722. | 0.1004 |
| 271. | 0.0721 | 1497. | 0.1757 | 2723. | 0.1005 |
| 272. | 0.0723 | 1498. | 0.1757 | 2724. | 0.1004 |
| 273. | 0.0725 | 1499. | 0.1756 | 2725. | 0.1004 |
| 274. | 0.0725 | 1500. | 0.1759 | 2726. | 0.1002 |
| 275. | 0.0727 | 1501. | 0.1757 | 2727. | 0.1001 |
| 276. | 0.073 | 1502. | 0.1758 | 2728. | 0.1004 |
| 277. | 0.0731 | 1503. | 0.1761 | 2729. | 0.1003 |
| 278. | 0.0735 | 1504. | 0.1761 | 2730. | 0.1001 |
| 279. | 0.0736 | 1505. | 0.176 | 2731. | 0.1 |
| 280. | 0.0737 | 1506. | 0.1763 | 2732. | 0.0998 |
| 281. | 0.0738 | 1507. | 0.1763 | 2733. | 0.0997 |
| 282. | 0.0741 | 1508. | 0.1767 | 2734. | 0.0999 |
| 283. | 0.0742 | 1509. | 0.1766 | 2735. | 0.0998 |
| 284. | 0.0743 | 1510. | 0.1765 | 2736. | 0.0996 |
| 285. | 0.0744 | 1511. | 0.1766 | 2737. | 0.0997 |
| 286. | 0.0745 | 1512. | 0.1768 | 2738. | 0.0996 |
| 287. | 0.0748 | 1513. | 0.1768 | 2739. | 0.0995 |
| 288. | 0.0751 | 1514. | 0.177 | 2740. | 0.0995 |
| 289. | 0.0751 | 1515. | 0.1768 | 2741. | 0.0994 |
| 290. | 0.0754 | 1516. | 0.1768 | 2742. | 0.0995 |
| 291. | 0.0757 | 1517. | 0.177 | 2743. | 0.0993 |
| 292. | 0.0755 | 1518. | 0.1771 | 2744. | 0.0994 |
| 293. | 0.0758 | 1519. | 0.1771 | 2745. | 0.0989 |
| 294. | 0.0761 | 1520. | 0.177 | 2746. | 0.099 |
| 295. | 0.0763 | 1521. | 0.177 | 2747. | 0.0987 |
| 296. | 0.0763 | 1522. | 0.1772 | 2748. | 0.0989 |
| 297. | 0.0765 | 1523. | 0.1772 | 2749. | 0.0988 |
| 298. | 0.0767 | 1524. | 0.1773 | 2750. | 0.0988 |
| 299. | 0.0768 | 1525. | 0.1774 | 2751. | 0.0986 |
| 300. | 0.077 | 1526. | 0.1775 | 2752. | 0.0986 |
| 301. | 0.0773 | 1527. | 0.1778 | 2753. | 0.0985 |
| 302. | 0.0775 | 1528. | 0.1775 | 2754. | 0.0984 |
| 303. | 0.0776 | 1529. | 0.1777 | 2755. | 0.0983 |
| 304. | 0.0776 | 1530. | 0.1777 | 2756. | 0.0983 |
| 305. | 0.0778 | 1531. | 0.1775 | 2757. | 0.0983 |
| 306. | 0.0781 | 1532. | 0.1777 | 2758. | 0.0981 |
| 307. | 0.0781 | 1533. | 0.1777 | 2759. | 0.0981 |
| 308. | 0.0785 | 1534. | 0.1778 | 2760. | 0.0981 |
| 309. | 0.0785 | 1535. | 0.1776 | 2761. | 0.0981 |
| 310. | 0.0788 | 1536. | 0.1777 | 2762. | 0.0978 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 311. | 0.079 | 1537. | 0.178 | 2763. | 0.0979 |
| 312. | 0.0792 | 1538. | 0.1779 | 2764. | 0.0979 |
| 313. | 0.0794 | 1539. | 0.1779 | 2765. | 0.0978 |
| 314. | 0.0795 | 1540. | 0.178 | 2766. | 0.0977 |
| 315. | 0.0796 | 1541. | 0.1781 | 2767. | 0.0978 |
| 316. | 0.0798 | 1542. | 0.178 | 2768. | 0.0977 |
| 317. | 0.08 | 1543. | 0.178 | 2769. | 0.0976 |
| 318. | 0.08 | 1544. | 0.178 | 2770. | 0.0977 |
| 319. | 0.0802 | 1545. | 0.1781 | 2771. | 0.0975 |
| 320. | 0.0806 | 1546. | 0.1781 | 2772. | 0.0975 |
| 321. | 0.0806 | 1547. | 0.1781 | 2773. | 0.0973 |
| 322. | 0.0808 | 1548. | 0.1783 | 2774. | 0.0971 |
| 323. | 0.0811 | 1549. | 0.1782 | 2775. | 0.0972 |
| 324. | 0.0814 | 1550. | 0.1784 | 2776. | 0.0972 |
| 325. | 0.0814 | 1551. | 0.1782 | 2777. | 0.097 |
| 326. | 0.0815 | 1552. | 0.1785 | 2778. | 0.0971 |
| 327. | 0.0815 | 1553. | 0.1783 | 2779. | 0.097 |
| 328. | 0.0819 | 1554. | 0.1784 | 2780. | 0.097 |
| 329. | 0.0816 | 1555. | 0.1784 | 2781. | 0.0971 |
| 330. | 0.0822 | 1556. | 0.1785 | 2782. | 0.0969 |
| 331. | 0.0822 | 1557. | 0.1786 | 2783. | 0.0969 |
| 332. | 0.0824 | 1558. | 0.1787 | 2784. | 0.0969 |
| 333. | 0.0824 | 1559. | 0.1788 | 2785. | 0.0967 |
| 334. | 0.083 | 1560. | 0.1788 | 2786. | 0.0966 |
| 335. | 0.0829 | 1561. | 0.1789 | 2787. | 0.0966 |
| 336. | 0.0828 | 1562. | 0.1789 | 2788. | 0.0966 |
| 337. | 0.083 | 1563. | 0.179 | 2789. | 0.0966 |
| 338. | 0.0831 | 1564. | 0.1791 | 2790. | 0.0964 |
| 339. | 0.0835 | 1565. | 0.1791 | 2791. | 0.0964 |
| 340. | 0.0835 | 1566. | 0.1793 | 2792. | 0.0963 |
| 341. | 0.0836 | 1567. | 0.1793 | 2793. | 0.0961 |
| 342. | 0.084 | 1568. | 0.1793 | 2794. | 0.096 |
| 343. | 0.0842 | 1569. | 0.1793 | 2795. | 0.0961 |
| 344. | 0.0844 | 1570. | 0.1794 | 2796. | 0.096 |
| 345. | 0.0845 | 1571. | 0.1794 | 2797. | 0.0961 |
| 346. | 0.0846 | 1572. | 0.1796 | 2798. | 0.096 |
| 347. | 0.0845 | 1573. | 0.1796 | 2799. | 0.0959 |
| 348. | 0.0848 | 1574. | 0.1796 | 2800. | 0.0957 |
| 349. | 0.0851 | 1575. | 0.1797 | 2801. | 0.0955 |
| 350. | 0.0851 | 1576. | 0.1798 | 2802. | 0.0957 |
| 351. | 0.0852 | 1577. | 0.1796 | 2803. | 0.0957 |
| 352. | 0.0855 | 1578. | 0.1798 | 2804. | 0.0955 |
| 353. | 0.0855 | 1579. | 0.1797 | 2805. | 0.0954 |
| 354. | 0.0855 | 1580. | 0.1797 | 2806. | 0.0955 |
| 355. | 0.0857 | 1581. | 0.1798 | 2807. | 0.0955 |
| 356. | 0.0858 | 1582. | 0.1797 | 2808. | 0.0954 |
| 357. | 0.0861 | 1583. | 0.1798 | 2809. | 0.0956 |
| 358. | 0.0862 | 1584. | 0.1802 | 2810. | 0.0952 |
| 359. | 0.0864 | 1585. | 0.1799 | 2811. | 0.0953 |
| 360. | 0.0865 | 1586. | 0.1801 | 2812. | 0.0952 |
| 361. | 0.0867 | 1587. | 0.1801 | 2813. | 0.0951 |
| 362. | 0.087 | 1588. | 0.1801 | 2814. | 0.0951 |
| 363. | 0.087 | 1589. | 0.1801 | 2815. | 0.095 |
| 364. | 0.0869 | 1590. | 0.1802 | 2816. | 0.0952 |
| 365. | 0.0872 | 1591. | 0.1802 | 2817. | 0.095 |
| 366. | 0.0873 | 1592. | 0.1803 | 2818. | 0.0948 |
| 367. | 0.0873 | 1593. | 0.1804 | 2819. | 0.0948 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 368. | 0.0874 | 1594. | 0.1804 | 2820. | 0.0948 |
| 369. | 0.0876 | 1595. | 0.1804 | 2821. | 0.0946 |
| 370. | 0.0877 | 1596. | 0.1805 | 2822. | 0.0945 |
| 371. | 0.088 | 1597. | 0.1806 | 2823. | 0.0947 |
| 372. | 0.0881 | 1598. | 0.1807 | 2824. | 0.0945 |
| 373. | 0.0882 | 1599. | 0.1808 | 2825. | 0.0944 |
| 374. | 0.0885 | 1600. | 0.1807 | 2826. | 0.0942 |
| 375. | 0.0888 | 1601. | 0.1807 | 2827. | 0.0944 |
| 376. | 0.0887 | 1602. | 0.1807 | 2828. | 0.0942 |
| 377. | 0.0889 | 1603. | 0.1808 | 2829. | 0.0942 |
| 378. | 0.089 | 1604. | 0.1809 | 2830. | 0.0941 |
| 379. | 0.0893 | 1605. | 0.181 | 2831. | 0.0942 |
| 380. | 0.0892 | 1606. | 0.181 | 2832. | 0.0939 |
| 381. | 0.0893 | 1607. | 0.1811 | 2833. | 0.0938 |
| 382. | 0.0897 | 1608. | 0.1813 | 2834. | 0.0937 |
| 383. | 0.0896 | 1609. | 0.181 | 2835. | 0.0938 |
| 384. | 0.0896 | 1610. | 0.181 | 2836. | 0.0937 |
| 385. | 0.0898 | 1611. | 0.1813 | 2837. | 0.0937 |
| 386. | 0.0901 | 1612. | 0.1811 | 2838. | 0.0936 |
| 387. | 0.0903 | 1613. | 0.1816 | 2839. | 0.0935 |
| 388. | 0.0903 | 1614. | 0.1814 | 2840. | 0.0934 |
| 389. | 0.0907 | 1615. | 0.1814 | 2841. | 0.0933 |
| 390. | 0.0906 | 1616. | 0.1815 | 2842. | 0.0933 |
| 391. | 0.0908 | 1617. | 0.1815 | 2843. | 0.0932 |
| 392. | 0.0909 | 1618. | 0.1816 | 2844. | 0.0933 |
| 393. | 0.0911 | 1619. | 0.1818 | 2845. | 0.0931 |
| 394. | 0.0913 | 1620. | 0.1816 | 2846. | 0.0931 |
| 395. | 0.0912 | 1621. | 0.1817 | 2847. | 0.0929 |
| 396. | 0.0914 | 1622. | 0.1818 | 2848. | 0.0929 |
| 397. | 0.0916 | 1623. | 0.1818 | 2849. | 0.093 |
| 398. | 0.0919 | 1624. | 0.1817 | 2850. | 0.0927 |
| 399. | 0.0917 | 1625. | 0.1817 | 2851. | 0.093 |
| 400. | 0.0921 | 1626. | 0.1821 | 2852. | 0.0927 |
| 401. | 0.0919 | 1627. | 0.1819 | 2853. | 0.0928 |
| 402. | 0.0921 | 1628. | 0.1819 | 2854. | 0.0927 |
| 403. | 0.0924 | 1629. | 0.182 | 2855. | 0.0925 |
| 404. | 0.0925 | 1630. | 0.1822 | 2856. | 0.0925 |
| 405. | 0.0928 | 1631. | 0.1821 | 2857. | 0.0926 |
| 406. | 0.0927 | 1632. | 0.1822 | 2858. | 0.0925 |
| 407. | 0.0927 | 1633. | 0.1821 | 2859. | 0.0925 |
| 408. | 0.0931 | 1634. | 0.1822 | 2860. | 0.0922 |
| 409. | 0.0932 | 1635. | 0.1824 | 2861. | 0.0922 |
| 410. | 0.0933 | 1636. | 0.1824 | 2862. | 0.0921 |
| 411. | 0.0934 | 1637. | 0.1824 | 2863. | 0.0922 |
| 412. | 0.0935 | 1638. | 0.1826 | 2864. | 0.0923 |
| 413. | 0.0935 | 1639. | 0.1825 | 2865. | 0.0921 |
| 414. | 0.0937 | 1640. | 0.1826 | 2866. | 0.092 |
| 415. | 0.094 | 1641. | 0.1828 | 2867. | 0.0922 |
| 416. | 0.0941 | 1642. | 0.1828 | 2868. | 0.092 |
| 417. | 0.0943 | 1643. | 0.1828 | 2869. | 0.0923 |
| 418. | 0.0944 | 1644. | 0.1828 | 2870. | 0.0921 |
| 419. | 0.0945 | 1645. | 0.1829 | 2871. | 0.092 |
| 420. | 0.0947 | 1646. | 0.1831 | 2872. | 0.0921 |
| 421. | 0.0947 | 1647. | 0.1829 | 2873. | 0.0922 |
| 422. | 0.095 | 1648. | 0.1831 | 2874. | 0.0917 |
| 423. | 0.0949 | 1649. | 0.1832 | 2875. | 0.0918 |
| 424. | 0.0952 | 1650. | 0.1831 | 2876. | 0.0916 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 425. | 0.0955 | 1651. | 0.1832 | 2877. | 0.0918 |
| 426. | 0.0955 | 1652. | 0.1832 | 2878. | 0.0916 |
| 427. | 0.0956 | 1653. | 0.1832 | 2879. | 0.0918 |
| 428. | 0.0957 | 1654. | 0.1834 | 2880. | 0.0919 |
| 429. | 0.0957 | 1655. | 0.1836 | 2881. | 0.0915 |
| 430. | 0.0961 | 1656. | 0.1836 | 2882. | 0.0915 |
| 431. | 0.0962 | 1657. | 0.1836 | 2883. | 0.0916 |
| 432. | 0.0961 | 1658. | 0.1836 | 2884. | 0.0915 |
| 433. | 0.0964 | 1659. | 0.1836 | 2885. | 0.0914 |
| 434. | 0.0965 | 1660. | 0.1837 | 2886. | 0.0914 |
| 435. | 0.0967 | 1661. | 0.1838 | 2887. | 0.0914 |
| 436. | 0.0966 | 1662. | 0.1838 | 2888. | 0.0913 |
| 437. | 0.0972 | 1663. | 0.1839 | 2889. | 0.0912 |
| 438. | 0.0971 | 1664. | 0.1839 | 2890. | 0.0912 |
| 439. | 0.0974 | 1665. | 0.1839 | 2891. | 0.0912 |
| 440. | 0.0976 | 1666. | 0.184 | 2892. | 0.091 |
| 441. | 0.0978 | 1667. | 0.1841 | 2893. | 0.0911 |
| 442. | 0.0979 | 1668. | 0.1841 | 2894. | 0.0913 |
| 443. | 0.0981 | 1669. | 0.1842 | 2895. | 0.0911 |
| 444. | 0.0981 | 1670. | 0.1843 | 2896. | 0.091 |
| 445. | 0.0985 | 1671. | 0.1844 | 2897. | 0.0909 |
| 446. | 0.0984 | 1672. | 0.1842 | 2898. | 0.0908 |
| 447. | 0.0987 | 1673. | 0.1842 | 2899. | 0.0907 |
| 448. | 0.0988 | 1674. | 0.1844 | 2900. | 0.0908 |
| 449. | 0.0989 | 1675. | 0.1844 | 2901. | 0.0908 |
| 450. | 0.0992 | 1676. | 0.1847 | 2902. | 0.0906 |
| 451. | 0.0992 | 1677. | 0.1843 | 2903. | 0.0905 |
| 452. | 0.0994 | 1678. | 0.1846 | 2904. | 0.0905 |
| 453. | 0.0997 | 1679. | 0.1848 | 2905. | 0.0904 |
| 454. | 0.0997 | 1680. | 0.1848 | 2906. | 0.0904 |
| 455. | 0.1 | 1681. | 0.1846 | 2907. | 0.0903 |
| 456. | 0.1 | 1682. | 0.1848 | 2908. | 0.0902 |
| 457. | 0.1003 | 1683. | 0.1849 | 2909. | 0.0903 |
| 458. | 0.1002 | 1684. | 0.185 | 2910. | 0.0903 |
| 459. | 0.1006 | 1685. | 0.1849 | 2911. | 0.0903 |
| 460. | 0.1007 | 1686. | 0.1851 | 2912. | 0.0901 |
| 461. | 0.1008 | 1687. | 0.1851 | 2913. | 0.09 |
| 462. | 0.1009 | 1688. | 0.1849 | 2914. | 0.0901 |
| 463. | 0.1009 | 1689. | 0.185 | 2915. | 0.09 |
| 464. | 0.101 | 1690. | 0.1851 | 2916. | 0.0902 |
| 465. | 0.1011 | 1691. | 0.1851 | 2917. | 0.0901 |
| 466. | 0.1013 | 1692. | 0.1853 | 2918. | 0.09 |
| 467. | 0.1016 | 1693. | 0.1854 | 2919. | 0.0901 |
| 468. | 0.1017 | 1694. | 0.1851 | 2920. | 0.0898 |
| 469. | 0.1019 | 1695. | 0.1854 | 2921. | 0.0898 |
| 470. | 0.1021 | 1696. | 0.1856 | 2922. | 0.0897 |
| 471. | 0.1021 | 1697. | 0.1855 | 2923. | 0.0898 |
| 472. | 0.102 | 1698. | 0.1855 | 2924. | 0.0897 |
| 473. | 0.1023 | 1699. | 0.1856 | 2925. | 0.0897 |
| 474. | 0.1025 | 1700. | 0.1859 | 2926. | 0.0896 |
| 475. | 0.1025 | 1701. | 0.1856 | 2927. | 0.0894 |
| 476. | 0.1028 | 1702. | 0.1857 | 2928. | 0.0893 |
| 477. | 0.1029 | 1703. | 0.1855 | 2929. | 0.0894 |
| 478. | 0.1029 | 1704. | 0.1858 | 2930. | 0.0896 |
| 479. | 0.1028 | 1705. | 0.1857 | 2931. | 0.0892 |
| 480. | 0.1032 | 1706. | 0.1857 | 2932. | 0.0893 |
| 481. | 0.1032 | 1707. | 0.1857 | 2933. | 0.0893 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 482. | 0.1034 | 1708. | 0.1857 | 2934. | 0.0891 |
| 483. | 0.1036 | 1709. | 0.1859 | 2935. | 0.0889 |
| 484. | 0.1038 | 1710. | 0.1861 | 2936. | 0.0892 |
| 485. | 0.1037 | 1711. | 0.1862 | 2937. | 0.0889 |
| 486. | 0.1039 | 1712. | 0.1859 | 2938. | 0.0889 |
| 487. | 0.1039 | 1713. | 0.186 | 2939. | 0.0889 |
| 488. | 0.104 | 1714. | 0.1862 | 2940. | 0.0889 |
| 489. | 0.1044 | 1715. | 0.1861 | 2941. | 0.0888 |
| 490. | 0.1044 | 1716. | 0.1862 | 2942. | 0.0888 |
| 491. | 0.1045 | 1717. | 0.1864 | 2943. | 0.0888 |
| 492. | 0.1048 | 1718. | 0.1862 | 2944. | 0.0887 |
| 493. | 0.1047 | 1719. | 0.1862 | 2945. | 0.0885 |
| 494. | 0.1049 | 1720. | 0.1861 | 2946. | 0.0886 |
| 495. | 0.105 | 1721. | 0.1862 | 2947. | 0.0886 |
| 496. | 0.1053 | 1722. | 0.1864 | 2948. | 0.0884 |
| 497. | 0.1052 | 1723. | 0.1864 | 2949. | 0.0885 |
| 498. | 0.1055 | 1724. | 0.1865 | 2950. | 0.0884 |
| 499. | 0.1054 | 1725. | 0.1865 | 2951. | 0.0886 |
| 500. | 0.1054 | 1726. | 0.1865 | 2952. | 0.0886 |
| 501. | 0.1058 | 1727. | 0.1865 | 2953. | 0.0885 |
| 502. | 0.1059 | 1728. | 0.1865 | 2954. | 0.0885 |
| 503. | 0.1058 | 1729. | 0.1867 | 2955. | 0.0884 |
| 504. | 0.1062 | 1730. | 0.1867 | 2956. | 0.0886 |
| 505. | 0.1061 | 1731. | 0.1867 | 2957. | 0.0881 |
| 506. | 0.1062 | 1732. | 0.1868 | 2958. | 0.0881 |
| 507. | 0.1065 | 1733. | 0.1867 | 2959. | 0.0882 |
| 508. | 0.1065 | 1734. | 0.1872 | 2960. | 0.0883 |
| 509. | 0.1065 | 1735. | 0.1872 | 2961. | 0.0884 |
| 510. | 0.1068 | 1736. | 0.1872 | 2962. | 0.0881 |
| 511. | 0.1068 | 1737. | 0.1873 | 2963. | 0.0883 |
| 512. | 0.1069 | 1738. | 0.1871 | 2964. | 0.088 |
| 513. | 0.1068 | 1739. | 0.1872 | 2965. | 0.088 |
| 514. | 0.1073 | 1740. | 0.1876 | 2966. | 0.088 |
| 515. | 0.1073 | 1741. | 0.1873 | 2967. | 0.0879 |
| 516. | 0.1073 | 1742. | 0.1872 | 2968. | 0.0879 |
| 517. | 0.1076 | 1743. | 0.1872 | 2969. | 0.0879 |
| 518. | 0.1077 | 1744. | 0.1874 | 2970. | 0.0879 |
| 519. | 0.1078 | 1745. | 0.1876 | 2971. | 0.0878 |
| 520. | 0.1079 | 1746. | 0.1875 | 2972. | 0.0878 |
| 521. | 0.108 | 1747. | 0.1874 | 2973. | 0.0875 |
| 522. | 0.1082 | 1748. | 0.1876 | 2974. | 0.0874 |
| 523. | 0.1082 | 1749. | 0.1875 | 2975. | 0.0876 |
| 524. | 0.1081 | 1750. | 0.1877 | 2976. | 0.0875 |
| 525. | 0.1085 | 1751. | 0.1879 | 2977. | 0.0875 |
| 526. | 0.1087 | 1752. | 0.1877 | 2978. | 0.0877 |
| 527. | 0.1086 | 1753. | 0.1879 | 2979. | 0.0876 |
| 528. | 0.1089 | 1754. | 0.1879 | 2980. | 0.0875 |
| 529. | 0.1091 | 1755. | 0.1881 | 2981. | 0.0876 |
| 530. | 0.109 | 1756. | 0.1881 | 2982. | 0.0874 |
| 531. | 0.1092 | 1757. | 0.1882 | 2983. | 0.0873 |
| 532. | 0.1096 | 1758. | 0.1882 | 2984. | 0.0874 |
| 533. | 0.1095 | 1759. | 0.1883 | 2985. | 0.0873 |
| 534. | 0.1096 | 1760. | 0.1882 | 2986. | 0.0873 |
| 535. | 0.1097 | 1761. | 0.1883 | 2987. | 0.0872 |
| 536. | 0.11 | 1762. | 0.1884 | 2988. | 0.0873 |
| 537. | 0.1099 | 1763. | 0.1883 | 2989. | 0.0873 |
| 538. | 0.1102 | 1764. | 0.1884 | 2990. | 0.087 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 539. | 0.1102 | 1765. | 0.1885 | 2991. | 0.087 |
| 540. | 0.1101 | 1766. | 0.1885 | 2992. | 0.087 |
| 541. | 0.1105 | 1767. | 0.1885 | 2993. | 0.087 |
| 542. | 0.1104 | 1768. | 0.1885 | 2994. | 0.087 |
| 543. | 0.1105 | 1769. | 0.1885 | 2995. | 0.0867 |
| 544. | 0.1107 | 1770. | 0.1886 | 2996. | 0.087 |
| 545. | 0.1109 | 1771. | 0.1885 | 2997. | 0.0869 |
| 546. | 0.1111 | 1772. | 0.1884 | 2998. | 0.0867 |
| 547. | 0.1112 | 1773. | 0.1885 | 2999. | 0.0866 |
| 548. | 0.1112 | 1774. | 0.1888 | 3000. | 0.0866 |
| 549. | 0.1115 | 1775. | 0.1887 | 3001. | 0.0868 |
| 550. | 0.1114 | 1776. | 0.1887 | 3002. | 0.0866 |
| 551. | 0.1115 | 1777. | 0.1887 | 3003. | 0.0865 |
| 552. | 0.1115 | 1778. | 0.1886 | 3004. | 0.0866 |
| 553. | 0.1117 | 1779. | 0.1889 | 3005. | 0.0862 |
| 554. | 0.1119 | 1780. | 0.1889 | 3006. | 0.0863 |
| 555. | 0.1119 | 1781. | 0.1888 | 3007. | 0.0863 |
| 556. | 0.1122 | 1782. | 0.1888 | 3008. | 0.0862 |
| 557. | 0.1122 | 1783. | 0.1889 | 3009. | 0.0862 |
| 558. | 0.1124 | 1784. | 0.1889 | 3010. | 0.086 |
| 559. | 0.1126 | 1785. | 0.1888 | 3011. | 0.086 |
| 560. | 0.1126 | 1786. | 0.1887 | 3012. | 0.0857 |
| 561. | 0.1126 | 1787. | 0.1888 | 3013. | 0.0858 |
| 562. | 0.1128 | 1788. | 0.1888 | 3014. | 0.0856 |
| 563. | 0.113 | 1789. | 0.1889 | 3015. | 0.0857 |
| 564. | 0.1131 | 1790. | 0.1887 | 3016. | 0.0857 |
| 565. | 0.1131 | 1791. | 0.1887 | 3017. | 0.0857 |
| 566. | 0.1133 | 1792. | 0.1887 | 3018. | 0.0856 |
| 567. | 0.1136 | 1793. | 0.1889 | 3019. | 0.0855 |
| 568. | 0.1134 | 1794. | 0.189 | 3020. | 0.0857 |
| 569. | 0.1136 | 1795. | 0.1889 | 3021. | 0.0854 |
| 570. | 0.1138 | 1796. | 0.1891 | 3022. | 0.0854 |
| 571. | 0.1139 | 1797. | 0.1891 | 3023. | 0.0854 |
| 572. | 0.114 | 1798. | 0.1891 | 3024. | 0.0855 |
| 573. | 0.1141 | 1799. | 0.1891 | 3025. | 0.0855 |
| 574. | 0.1141 | 1800. | 0.1893 | 3026. | 0.0854 |
| 575. | 0.1143 | 1801. | 0.1892 | 3027. | 0.0853 |
| 576. | 0.1146 | 1802. | 0.1895 | 3028. | 0.0853 |
| 577. | 0.1145 | 1803. | 0.1893 | 3029. | 0.0851 |
| 578. | 0.1145 | 1804. | 0.1895 | 3030. | 0.0853 |
| 579. | 0.1147 | 1805. | 0.1894 | 3031. | 0.0852 |
| 580. | 0.1148 | 1806. | 0.1893 | 3032. | 0.0852 |
| 581. | 0.1149 | 1807. | 0.1893 | 3033. | 0.0851 |
| 582. | 0.115 | 1808. | 0.1894 | 3034. | 0.0851 |
| 583. | 0.1152 | 1809. | 0.1895 | 3035. | 0.085 |
| 584. | 0.1152 | 1810. | 0.1895 | 3036. | 0.085 |
| 585. | 0.1153 | 1811. | 0.1895 | 3037. | 0.0851 |
| 586. | 0.1155 | 1812. | 0.1897 | 3038. | 0.0849 |
| 587. | 0.1157 | 1813. | 0.1896 | 3039. | 0.0849 |
| 588. | 0.1155 | 1814. | 0.1898 | 3040. | 0.0851 |
| 589. | 0.1158 | 1815. | 0.1898 | 3041. | 0.0849 |
| 590. | 0.116 | 1816. | 0.19 | 3042. | 0.085 |
| 591. | 0.116 | 1817. | 0.1899 | 3043. | 0.0848 |
| 592. | 0.116 | 1818. | 0.1902 | 3044. | 0.0848 |
| 593. | 0.1162 | 1819. | 0.19 | 3045. | 0.0847 |
| 594. | 0.116 | 1820. | 0.1902 | 3046. | 0.0845 |
| 595. | 0.1165 | 1821. | 0.1903 | 3047. | 0.0846 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 596. | 0.1161 | 1822. | 0.1902 | 3048. | 0.0847 |
| 597. | 0.1164 | 1823. | 0.1901 | 3049. | 0.0845 |
| 598. | 0.1166 | 1824. | 0.1904 | 3050. | 0.0847 |
| 599. | 0.1167 | 1825. | 0.1902 | 3051. | 0.0846 |
| 600. | 0.1167 | 1826. | 0.1903 | 3052. | 0.0844 |
| 601. | 0.1168 | 1827. | 0.1904 | 3053. | 0.0843 |
| 602. | 0.117 | 1828. | 0.1903 | 3054. | 0.0844 |
| 603. | 0.1172 | 1829. | 0.1904 | 3055. | 0.0844 |
| 604. | 0.1174 | 1830. | 0.1905 | 3056. | 0.0845 |
| 605. | 0.1175 | 1831. | 0.1905 | 3057. | 0.0843 |
| 606. | 0.1179 | 1832. | 0.1904 | 3058. | 0.0843 |
| 607. | 0.1178 | 1833. | 0.1907 | 3059. | 0.0846 |
| 608. | 0.1181 | 1834. | 0.1907 | 3060. | 0.0843 |
| 609. | 0.1181 | 1835. | 0.1907 | 3061. | 0.0843 |
| 610. | 0.1183 | 1836. | 0.191 | 3062. | 0.0842 |
| 611. | 0.1181 | 1837. | 0.1907 | 3063. | 0.0843 |
| 612. | 0.1182 | 1838. | 0.1909 | 3064. | 0.0839 |
| 613. | 0.1183 | 1839. | 0.191 | 3065. | 0.0842 |
| 614. | 0.1185 | 1840. | 0.191 | 3066. | 0.084 |
| 615. | 0.1185 | 1841. | 0.191 | 3067. | 0.0839 |
| 616. | 0.1187 | 1842. | 0.1912 | 3068. | 0.0838 |
| 617. | 0.1186 | 1843. | 0.1912 | 3069. | 0.0837 |
| 618. | 0.1188 | 1844. | 0.1912 | 3070. | 0.0838 |
| 619. | 0.1187 | 1845. | 0.1911 | 3071. | 0.0839 |
| 620. | 0.1188 | 1846. | 0.1914 | 3072. | 0.0839 |
| 621. | 0.1189 | 1847. | 0.1916 | 3073. | 0.0838 |
| 622. | 0.1191 | 1848. | 0.1916 | 3074. | 0.0836 |
| 623. | 0.1191 | 1849. | 0.1914 | 3075. | 0.0837 |
| 624. | 0.1191 | 1850. | 0.1916 | 3076. | 0.0835 |
| 625. | 0.1195 | 1851. | 0.1915 | 3077. | 0.0837 |
| 626. | 0.1196 | 1852. | 0.1917 | 3078. | 0.0835 |
| 627. | 0.1198 | 1853. | 0.1917 | 3079. | 0.0835 |
| 628. | 0.1198 | 1854. | 0.1918 | 3080. | 0.0837 |
| 629. | 0.1198 | 1855. | 0.1918 | 3081. | 0.0837 |
| 630. | 0.12 | 1856. | 0.1919 | 3082. | 0.0836 |
| 631. | 0.1201 | 1857. | 0.1921 | 3083. | 0.0835 |
| 632. | 0.1203 | 1858. | 0.192 | 3084. | 0.0836 |
| 633. | 0.1203 | 1859. | 0.1922 | 3085. | 0.0836 |
| 634. | 0.1204 | 1860. | 0.1921 | 3086. | 0.0834 |
| 635. | 0.1204 | 1861. | 0.1924 | 3087. | 0.0835 |
| 636. | 0.1205 | 1862. | 0.1922 | 3088. | 0.0836 |
| 637. | 0.1205 | 1863. | 0.1922 | 3089. | 0.0835 |
| 638. | 0.1206 | 1864. | 0.1924 | 3090. | 0.0832 |
| 639. | 0.1207 | 1865. | 0.1926 | 3091. | 0.0832 |
| 640. | 0.1207 | 1866. | 0.1927 | 3092. | 0.0833 |
| 641. | 0.1211 | 1867. | 0.1925 | 3093. | 0.0831 |
| 642. | 0.1212 | 1868. | 0.1926 | 3094. | 0.0829 |
| 643. | 0.1213 | 1869. | 0.1929 | 3095. | 0.083 |
| 644. | 0.1214 | 1870. | 0.1927 | 3096. | 0.0829 |
| 645. | 0.1216 | 1871. | 0.1929 | 3097. | 0.083 |
| 646. | 0.1217 | 1872. | 0.1928 | 3098. | 0.083 |
| 647. | 0.1219 | 1873. | 0.1928 | 3099. | 0.083 |
| 648. | 0.122 | 1874. | 0.1928 | 3100. | 0.0829 |
| 649. | 0.1222 | 1875. | 0.1928 | 3101. | 0.0826 |
| 650. | 0.1222 | 1876. | 0.1928 | 3102. | 0.0827 |
| 651. | 0.1225 | 1877. | 0.1931 | 3103. | 0.0827 |
| 652. | 0.1225 | 1878. | 0.1931 | 3104. | 0.0825 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 653. | 0.1225 | 1879. | 0.1931 | 3105. | 0.0826 |
| 654. | 0.1224 | 1880. | 0.1932 | 3106. | 0.0825 |
| 655. | 0.1225 | 1881. | 0.1934 | 3107. | 0.0825 |
| 656. | 0.1226 | 1882. | 0.1934 | 3108. | 0.0825 |
| 657. | 0.1229 | 1883. | 0.1934 | 3109. | 0.0826 |
| 658. | 0.1228 | 1884. | 0.1933 | 3110. | 0.0822 |
| 659. | 0.1228 | 1885. | 0.1936 | 3111. | 0.0826 |
| 660. | 0.123 | 1886. | 0.1935 | 3112. | 0.0826 |
| 661. | 0.1229 | 1887. | 0.1936 | 3113. | 0.0823 |
| 662. | 0.1232 | 1888. | 0.1937 | 3114. | 0.0823 |
| 663. | 0.1233 | 1889. | 0.1938 | 3115. | 0.0822 |
| 664. | 0.1233 | 1890. | 0.1938 | 3116. | 0.0823 |
| 665. | 0.1235 | 1891. | 0.194 | 3117. | 0.0823 |
| 666. | 0.1236 | 1892. | 0.1939 | 3118. | 0.0821 |
| 667. | 0.1234 | 1893. | 0.1941 | 3119. | 0.082 |
| 668. | 0.1235 | 1894. | 0.1941 | 3120. | 0.0821 |
| 669. | 0.1237 | 1895. | 0.1943 | 3121. | 0.082 |
| 670. | 0.1239 | 1896. | 0.1941 | 3122. | 0.0819 |
| 671. | 0.1239 | 1897. | 0.1945 | 3123. | 0.0819 |
| 672. | 0.1239 | 1898. | 0.1944 | 3124. | 0.0821 |
| 673. | 0.1242 | 1899. | 0.1945 | 3125. | 0.0819 |
| 674. | 0.1242 | 1900. | 0.1946 | 3126. | 0.0819 |
| 675. | 0.1244 | 1901. | 0.1945 | 3127. | 0.0818 |
| 676. | 0.1244 | 1902. | 0.1946 | 3128. | 0.0818 |
| 677. | 0.1244 | 1903. | 0.1946 | 3129. | 0.0816 |
| 678. | 0.1245 | 1904. | 0.1947 | 3130. | 0.0819 |
| 679. | 0.1247 | 1905. | 0.1948 | 3131. | 0.0816 |
| 680. | 0.125 | 1906. | 0.1948 | 3132. | 0.0816 |
| 681. | 0.125 | 1907. | 0.1949 | 3133. | 0.0816 |
| 682. | 0.125 | 1908. | 0.1948 | 3134. | 0.0816 |
| 683. | 0.1252 | 1909. | 0.1948 | 3135. | 0.0815 |
| 684. | 0.1252 | 1910. | 0.1949 | 3136. | 0.0816 |
| 685. | 0.1254 | 1911. | 0.195 | 3137. | 0.0816 |
| 686. | 0.1257 | 1912. | 0.1948 | 3138. | 0.0813 |
| 687. | 0.1256 | 1913. | 0.1949 | 3139. | 0.0814 |
| 688. | 0.1258 | 1914. | 0.1952 | 3140. | 0.0813 |
| 689. | 0.1257 | 1915. | 0.1951 | 3141. | 0.0813 |
| 690. | 0.1259 | 1916. | 0.1954 | 3142. | 0.0811 |
| 691. | 0.1259 | 1917. | 0.1951 | 3143. | 0.0814 |
| 692. | 0.1258 | 1918. | 0.195 | 3144. | 0.0812 |
| 693. | 0.126 | 1919. | 0.1954 | 3145. | 0.0813 |
| 694. | 0.1261 | 1920. | 0.1952 | 3146. | 0.0813 |
| 695. | 0.1263 | 1921. | 0.1953 | 3147. | 0.0812 |
| 696. | 0.1263 | 1922. | 0.1954 | 3148. | 0.0812 |
| 697. | 0.1265 | 1923. | 0.1956 | 3149. | 0.0811 |
| 698. | 0.1267 | 1924. | 0.1955 | 3150. | 0.0811 |
| 699. | 0.1268 | 1925. | 0.1957 | 3151. | 0.0812 |
| 700. | 0.1267 | 1926. | 0.1955 | 3152. | 0.0809 |
| 701. | 0.1268 | 1927. | 0.1957 | 3153. | 0.081 |
| 702. | 0.1267 | 1928. | 0.1957 | 3154. | 0.081 |
| 703. | 0.127 | 1929. | 0.1957 | 3155. | 0.0809 |
| 704. | 0.1271 | 1930. | 0.1958 | 3156. | 0.0808 |
| 705. | 0.1272 | 1931. | 0.1958 | 3157. | 0.0808 |
| 706. | 0.1271 | 1932. | 0.1958 | 3158. | 0.081 |
| 707. | 0.1274 | 1933. | 0.1959 | 3159. | 0.0806 |
| 708. | 0.1276 | 1934. | 0.196 | 3160. | 0.0808 |
| 709. | 0.1278 | 1935. | 0.1958 | 3161. | 0.0807 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 710. | 0.1281 | 1936. | 0.1961 | 3162. | 0.0807 |
| 711. | 0.128 | 1937. | 0.1961 | 3163. | 0.0805 |
| 712. | 0.1282 | 1938. | 0.1961 | 3164. | 0.0806 |
| 713. | 0.1282 | 1939. | 0.1961 | 3165. | 0.0808 |
| 714. | 0.1283 | 1940. | 0.1961 | 3166. | 0.0807 |
| 715. | 0.1281 | 1941. | 0.1961 | 3167. | 0.0805 |
| 716. | 0.1285 | 1942. | 0.196 | 3168. | 0.0804 |
| 717. | 0.1287 | 1943. | 0.1963 | 3169. | 0.0803 |
| 718. | 0.1287 | 1944. | 0.1964 | 3170. | 0.0804 |
| 719. | 0.129 | 1945. | 0.1964 | 3171. | 0.0804 |
| 720. | 0.1291 | 1946. | 0.1964 | 3172. | 0.0803 |
| 721. | 0.1291 | 1947. | 0.1964 | 3173. | 0.0803 |
| 722. | 0.1291 | 1948. | 0.1967 | 3174. | 0.0802 |
| 723. | 0.1292 | 1949. | 0.1967 | 3175. | 0.0804 |
| 724. | 0.1295 | 1950. | 0.1966 | 3176. | 0.0801 |
| 725. | 0.1294 | 1951. | 0.1967 | 3177. | 0.0801 |
| 726. | 0.1295 | 1952. | 0.1968 | 3178. | 0.08 |
| 727. | 0.1296 | 1953. | 0.1966 | 3179. | 0.0803 |
| 728. | 0.1297 | 1954. | 0.1967 | 3180. | 0.0799 |
| 729. | 0.1298 | 1955. | 0.1968 | 3181. | 0.0799 |
| 730. | 0.1299 | 1956. | 0.1968 | 3182. | 0.0799 |
| 731. | 0.1298 | 1957. | 0.1969 | 3183. | 0.0799 |
| 732. | 0.1299 | 1958. | 0.1966 | 3184. | 0.0796 |
| 733. | 0.1298 | 1959. | 0.1969 | 3185. | 0.0797 |
| 734. | 0.1299 | 1960. | 0.1968 | 3186. | 0.0797 |
| 735. | 0.13 | 1961. | 0.1968 | 3187. | 0.0794 |
| 736. | 0.1304 | 1962. | 0.1968 | 3188. | 0.0793 |
| 737. | 0.1302 | 1963. | 0.1969 | 3189. | 0.0793 |
| 738. | 0.1303 | 1964. | 0.1967 | 3190. | 0.0793 |
| 739. | 0.1304 | 1965. | 0.1969 | 3191. | 0.0793 |
| 740. | 0.1305 | 1966. | 0.1969 | 3192. | 0.0793 |
| 741. | 0.1307 | 1967. | 0.197 | 3193. | 0.0793 |
| 742. | 0.1306 | 1968. | 0.1967 | 3194. | 0.0793 |
| 743. | 0.1308 | 1969. | 0.197 | 3195. | 0.0793 |
| 744. | 0.1309 | 1970. | 0.197 | 3196. | 0.0791 |
| 745. | 0.131 | 1971. | 0.1973 | 3197. | 0.0793 |
| 746. | 0.1312 | 1972. | 0.1971 | 3198. | 0.0793 |
| 747. | 0.131 | 1973. | 0.1973 | 3199. | 0.0792 |
| 748. | 0.1312 | 1974. | 0.1974 | 3200. | 0.0792 |
| 749. | 0.1316 | 1975. | 0.1974 | 3201. | 0.0793 |
| 750. | 0.1318 | 1976. | 0.1975 | 3202. | 0.0792 |
| 751. | 0.1318 | 1977. | 0.1976 | 3203. | 0.0791 |
| 752. | 0.1317 | 1978. | 0.1975 | 3204. | 0.0791 |
| 753. | 0.1319 | 1979. | 0.1974 | 3205. | 0.0791 |
| 754. | 0.1318 | 1980. | 0.1977 | 3206. | 0.079 |
| 755. | 0.132 | 1981. | 0.1975 | 3207. | 0.079 |
| 756. | 0.1321 | 1982. | 0.1976 | 3208. | 0.0789 |
| 757. | 0.1319 | 1983. | 0.1976 | 3209. | 0.079 |
| 758. | 0.1323 | 1984. | 0.1975 | 3210. | 0.0788 |
| 759. | 0.1322 | 1985. | 0.1978 | 3211. | 0.0789 |
| 760. | 0.1323 | 1986. | 0.1979 | 3212. | 0.0791 |
| 761. | 0.1325 | 1987. | 0.1978 | 3213. | 0.0789 |
| 762. | 0.1326 | 1988. | 0.1977 | 3214. | 0.079 |
| 763. | 0.1328 | 1989. | 0.1976 | 3215. | 0.0788 |
| 764. | 0.1328 | 1990. | 0.1977 | 3216. | 0.0788 |
| 765. | 0.1329 | 1991. | 0.1979 | 3217. | 0.079 |
| 766. | 0.1329 | 1992. | 0.1976 | 3218. | 0.079 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 767. | 0.1329 | 1993. | 0.1978 | 3219. | 0.0789 |
| 768. | 0.1331 | 1994. | 0.1979 | 3220. | 0.0789 |
| 769. | 0.1332 | 1995. | 0.198 | 3221. | 0.0786 |
| 770. | 0.1332 | 1996. | 0.1976 | 3222. | 0.0787 |
| 771. | 0.1333 | 1997. | 0.198 | 3223. | 0.0787 |
| 772. | 0.1334 | 1998. | 0.1979 | 3224. | 0.0785 |
| 773. | 0.1337 | 1999. | 0.1979 | 3225. | 0.0785 |
| 774. | 0.1336 | 2000. | 0.198 | 3226. | 0.0783 |
| 775. | 0.1336 | 2001. | 0.1979 | 3227. | 0.0784 |
| 776. | 0.1338 | 2002. | 0.1979 | 3228. | 0.0786 |
| 777. | 0.1339 | 2003. | 0.1978 | 3229. | 0.0785 |
| 778. | 0.1341 | 2004. | 0.198 | 3230. | 0.0784 |
| 779. | 0.1343 | 2005. | 0.1979 | 3231. | 0.0785 |
| 780. | 0.1343 | 2006. | 0.1981 | 3232. | 0.0785 |
| 781. | 0.1342 | 2007. | 0.1978 | 3233. | 0.0785 |
| 782. | 0.1345 | 2008. | 0.1979 | 3234. | 0.0785 |
| 783. | 0.1345 | 2009. | 0.198 | 3235. | 0.0784 |
| 784. | 0.1347 | 2010. | 0.1979 | 3236. | 0.0782 |
| 785. | 0.1347 | 2011. | 0.1981 | 3237. | 0.0783 |
| 786. | 0.1346 | 2012. | 0.198 | 3238. | 0.0782 |
| 787. | 0.1348 | 2013. | 0.1982 | 3239. | 0.0782 |
| 788. | 0.1345 | 2014. | 0.1983 | 3240. | 0.0781 |
| 789. | 0.1347 | 2015. | 0.1984 | 3241. | 0.0782 |
| 790. | 0.1346 | 2016. | 0.1982 | 3242. | 0.0782 |
| 791. | 0.1348 | 2017. | 0.1983 | 3243. | 0.0783 |
| 792. | 0.1348 | 2018. | 0.1985 | 3244. | 0.0782 |
| 793. | 0.1348 | 2019. | 0.1983 | 3245. | 0.078 |
| 794. | 0.135 | 2020. | 0.1984 | 3246. | 0.0781 |
| 795. | 0.1353 | 2021. | 0.1983 | 3247. | 0.0781 |
| 796. | 0.1353 | 2022. | 0.1987 | 3248. | 0.078 |
| 797. | 0.1355 | 2023. | 0.1985 | 3249. | 0.0779 |
| 798. | 0.1354 | 2024. | 0.1985 | 3250. | 0.078 |
| 799. | 0.1358 | 2025. | 0.1986 | 3251. | 0.0779 |
| 800. | 0.1356 | 2026. | 0.1986 | 3252. | 0.078 |
| 801. | 0.136 | 2027. | 0.1986 | 3253. | 0.0778 |
| 802. | 0.1361 | 2028. | 0.1988 | 3254. | 0.0777 |
| 803. | 0.1361 | 2029. | 0.1987 | 3255. | 0.0777 |
| 804. | 0.1356 | 2030. | 0.1987 | 3256. | 0.0775 |
| 805. | 0.1357 | 2031. | 0.1988 | 3257. | 0.0775 |
| 806. | 0.1361 | 2032. | 0.199 | 3258. | 0.0777 |
| 807. | 0.1359 | 2033. | 0.199 | 3259. | 0.0775 |
| 808. | 0.1362 | 2034. | 0.199 | 3260. | 0.0775 |
| 809. | 0.1365 | 2035. | 0.1992 | 3261. | 0.0775 |
| 810. | 0.1364 | 2036. | 0.1991 | 3262. | 0.0774 |
| 811. | 0.1363 | 2037. | 0.1992 | 3263. | 0.0773 |
| 812. | 0.1361 | 2038. | 0.1995 | 3264. | 0.0775 |
| 813. | 0.136 | 2039. | 0.1994 | 3265. | 0.0774 |
| 814. | 0.1363 | 2040. | 0.1995 | 3266. | 0.0772 |
| 815. | 0.1363 | 2041. | 0.1996 | 3267. | 0.0772 |
| 816. | 0.1363 | 2042. | 0.1995 | 3268. | 0.0771 |
| 817. | 0.1366 | 2043. | 0.1996 | 3269. | 0.0772 |
| 818. | 0.1364 | 2044. | 0.1997 | 3270. | 0.0772 |
| 819. | 0.1366 | 2045. | 0.1999 | 3271. | 0.0772 |
| 820. | 0.1365 | 2046. | 0.1999 | 3272. | 0.0773 |
| 821. | 0.1369 | 2047. | 0.2002 | 3273. | 0.0773 |
| 822. | 0.1368 | 2048. | 0.2001 | 3274. | 0.0772 |
| 823. | 0.1368 | 2049. | 0.2 | 3275. | 0.0772 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 824. | 0.137 | 2050. | 0.2001 | 3276. | 0.0771 |
| 825. | 0.1371 | 2051. | 0.2002 | 3277. | 0.077 |
| 826. | 0.1373 | 2052. | 0.2002 | 3278. | 0.077 |
| 827. | 0.1374 | 2053. | 0.2004 | 3279. | 0.0769 |
| 828. | 0.1374 | 2054. | 0.2005 | 3280. | 0.0768 |
| 829. | 0.1373 | 2055. | 0.2006 | 3281. | 0.0769 |
| 830. | 0.1373 | 2056. | 0.2006 | 3282. | 0.077 |
| 831. | 0.1373 | 2057. | 0.2007 | 3283. | 0.0767 |
| 832. | 0.1374 | 2058. | 0.2009 | 3284. | 0.0769 |
| 833. | 0.1374 | 2059. | 0.2007 | 3285. | 0.0768 |
| 834. | 0.1376 | 2060. | 0.2012 | 3286. | 0.0769 |
| 835. | 0.1376 | 2061. | 0.2012 | 3287. | 0.0769 |
| 836. | 0.1377 | 2062. | 0.2012 | 3288. | 0.0768 |
| 837. | 0.1376 | 2063. | 0.2013 | 3289. | 0.0766 |
| 838. | 0.1378 | 2064. | 0.2013 | 3290. | 0.0767 |
| 839. | 0.1379 | 2065. | 0.2014 | 3291. | 0.0766 |
| 840. | 0.1382 | 2066. | 0.2016 | 3292. | 0.0766 |
| 841. | 0.1381 | 2067. | 0.2016 | 3293. | 0.0765 |
| 842. | 0.1382 | 2068. | 0.2017 | 3294. | 0.0767 |
| 843. | 0.1381 | 2069. | 0.2017 | 3295. | 0.0765 |
| 844. | 0.1383 | 2070. | 0.2017 | 3296. | 0.0765 |
| 845. | 0.1383 | 2071. | 0.202 | 3297. | 0.0764 |
| 846. | 0.1385 | 2072. | 0.2021 | 3298. | 0.0763 |
| 847. | 0.1388 | 2073. | 0.2021 | 3299. | 0.0765 |
| 848. | 0.1388 | 2074. | 0.2023 | 3300. | 0.0763 |
| 849. | 0.1388 | 2075. | 0.2024 | 3301. | 0.0762 |
| 850. | 0.139 | 2076. | 0.2025 | 3302. | 0.0763 |
| 851. | 0.1388 | 2077. | 0.2027 | 3303. | 0.0763 |
| 852. | 0.1389 | 2078. | 0.2028 | 3304. | 0.0761 |
| 853. | 0.1391 | 2079. | 0.2028 | 3305. | 0.0762 |
| 854. | 0.1393 | 2080. | 0.2027 | 3306. | 0.0761 |
| 855. | 0.1392 | 2081. | 0.2031 | 3307. | 0.0761 |
| 856. | 0.1394 | 2082. | 0.2032 | 3308. | 0.0763 |
| 857. | 0.1394 | 2083. | 0.2031 | 3309. | 0.0761 |
| 858. | 0.1391 | 2084. | 0.2032 | 3310. | 0.076 |
| 859. | 0.1393 | 2085. | 0.2032 | 3311. | 0.076 |
| 860. | 0.1396 | 2086. | 0.2034 | 3312. | 0.0759 |
| 861. | 0.1397 | 2087. | 0.2031 | 3313. | 0.0761 |
| 862. | 0.1398 | 2088. | 0.2033 | 3314. | 0.0759 |
| 863. | 0.1397 | 2089. | 0.2033 | 3315. | 0.0759 |
| 864. | 0.1401 | 2090. | 0.2036 | 3316. | 0.0761 |
| 865. | 0.1399 | 2091. | 0.2036 | 3317. | 0.076 |
| 866. | 0.14 | 2092. | 0.2037 | 3318. | 0.076 |
| 867. | 0.1399 | 2093. | 0.2038 | 3319. | 0.0757 |
| 868. | 0.1403 | 2094. | 0.2039 | 3320. | 0.0757 |
| 869. | 0.1402 | 2095. | 0.2039 | 3321. | 0.0758 |
| 870. | 0.1406 | 2096. | 0.2038 | 3322. | 0.0755 |
| 871. | 0.1406 | 2097. | 0.2042 | 3323. | 0.0758 |
| 872. | 0.1408 | 2098. | 0.2043 | 3324. | 0.0757 |
| 873. | 0.1409 | 2099. | 0.2043 | 3325. | 0.0755 |
| 874. | 0.1409 | 2100. | 0.2043 | 3326. | 0.0755 |
| 875. | 0.1411 | 2101. | 0.2045 | 3327. | 0.0756 |
| 876. | 0.1411 | 2102. | 0.2045 | 3328. | 0.0755 |
| 877. | 0.1413 | 2103. | 0.2045 | 3329. | 0.0756 |
| 878. | 0.1411 | 2104. | 0.2044 | 3330. | 0.0755 |
| 879. | 0.1413 | 2105. | 0.2046 | 3331. | 0.0753 |
| 880. | 0.141 | 2106. | 0.2047 | 3332. | 0.0756 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 881. | 0.1413 | 2107. | 0.205 | 3333. | 0.0753 |
| 882. | 0.1411 | 2108. | 0.2052 | 3334. | 0.0754 |
| 883. | 0.1411 | 2109. | 0.2052 | 3335. | 0.0752 |
| 884. | 0.1412 | 2110. | 0.2053 | 3336. | 0.0753 |
| 885. | 0.1415 | 2111. | 0.2054 | 3337. | 0.0752 |
| 886. | 0.1415 | 2112. | 0.2055 | 3338. | 0.0753 |
| 887. | 0.1416 | 2113. | 0.2055 | 3339. | 0.0753 |
| 888. | 0.1417 | 2114. | 0.2055 | 3340. | 0.0752 |
| 889. | 0.1419 | 2115. | 0.2055 | 3341. | 0.0753 |
| 890. | 0.1421 | 2116. | 0.2057 | 3342. | 0.0751 |
| 891. | 0.142 | 2117. | 0.2057 | 3343. | 0.0751 |
| 892. | 0.1421 | 2118. | 0.2059 | 3344. | 0.0753 |
| 893. | 0.1423 | 2119. | 0.206 | 3345. | 0.0751 |
| 894. | 0.1422 | 2120. | 0.2062 | 3346. | 0.0749 |
| 895. | 0.1422 | 2121. | 0.2061 | 3347. | 0.0751 |
| 896. | 0.1423 | 2122. | 0.2062 | 3348. | 0.0748 |
| 897. | 0.1424 | 2123. | 0.2062 | 3349. | 0.0751 |
| 898. | 0.1426 | 2124. | 0.2065 | 3350. | 0.0749 |
| 899. | 0.1425 | 2125. | 0.2065 | 3351. | 0.0749 |
| 900. | 0.1424 | 2126. | 0.2066 | 3352. | 0.0749 |
| 901. | 0.1424 | 2127. | 0.2066 | 3353. | 0.0746 |
| 902. | 0.1426 | 2128. | 0.2068 | 3354. | 0.0747 |
| 903. | 0.1428 | 2129. | 0.2065 | 3355. | 0.0746 |
| 904. | 0.1429 | 2130. | 0.2067 | 3356. | 0.0744 |
| 905. | 0.1428 | 2131. | 0.2068 | 3357. | 0.0748 |
| 906. | 0.143 | 2132. | 0.2065 | 3358. | 0.0746 |
| 907. | 0.143 | 2133. | 0.2066 | 3359. | 0.0747 |
| 908. | 0.143 | 2134. | 0.2067 | 3360. | 0.0746 |
| 909. | 0.1431 | 2135. | 0.2065 | 3361. | 0.0746 |
| 910. | 0.1432 | 2136. | 0.2064 | 3362. | 0.0745 |
| 911. | 0.1435 | 2137. | 0.206 | 3363. | 0.0744 |
| 912. | 0.1436 | 2138. | 0.2058 | 3364. | 0.0745 |
| 913. | 0.1436 | 2139. | 0.2056 | 3365. | 0.0745 |
| 914. | 0.1437 | 2140. | 0.2052 | 3366. | 0.0743 |
| 915. | 0.1438 | 2141. | 0.2049 | 3367. | 0.0744 |
| 916. | 0.1438 | 2142. | 0.2046 | 3368. | 0.0743 |
| 917. | 0.1438 | 2143. | 0.204 | 3369. | 0.0744 |
| 918. | 0.1439 | 2144. | 0.2036 | 3370. | 0.0742 |
| 919. | 0.144 | 2145. | 0.2033 | 3371. | 0.0743 |
| 920. | 0.1439 | 2146. | 0.2026 | 3372. | 0.0741 |
| 921. | 0.1443 | 2147. | 0.2022 | 3373. | 0.0743 |
| 922. | 0.1442 | 2148. | 0.2016 | 3374. | 0.074 |
| 923. | 0.1443 | 2149. | 0.2012 | 3375. | 0.074 |
| 924. | 0.1443 | 2150. | 0.2008 | 3376. | 0.0742 |
| 925. | 0.1446 | 2151. | 0.2 | 3377. | 0.0741 |
| 926. | 0.1445 | 2152. | 0.1996 | 3378. | 0.074 |
| 927. | 0.1447 | 2153. | 0.1989 | 3379. | 0.0738 |
| 928. | 0.1447 | 2154. | 0.1985 | 3380. | 0.074 |
| 929. | 0.1447 | 2155. | 0.1978 | 3381. | 0.074 |
| 930. | 0.1446 | 2156. | 0.1973 | 3382. | 0.0739 |
| 931. | 0.1447 | 2157. | 0.1969 | 3383. | 0.074 |
| 932. | 0.1449 | 2158. | 0.1965 | 3384. | 0.074 |
| 933. | 0.1448 | 2159. | 0.1959 | 3385. | 0.0739 |
| 934. | 0.145 | 2160. | 0.1954 | 3386. | 0.0738 |
| 935. | 0.145 | 2161. | 0.1947 | 3387. | 0.0738 |
| 936. | 0.1449 | 2162. | 0.1945 | 3388. | 0.0738 |
| 937. | 0.1452 | 2163. | 0.194 | 3389. | 0.0738 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 938. | 0.1451 | 2164. | 0.1935 | 3390. | 0.0737 |
| 939. | 0.1451 | 2165. | 0.193 | 3391. | 0.0738 |
| 940. | 0.1453 | 2166. | 0.1928 | 3392. | 0.0737 |
| 941. | 0.1453 | 2167. | 0.1921 | 3393. | 0.0736 |
| 942. | 0.1453 | 2168. | 0.1918 | 3394. | 0.0735 |
| 943. | 0.1454 | 2169. | 0.1914 | 3395. | 0.0736 |
| 944. | 0.1456 | 2170. | 0.1909 | 3396. | 0.0734 |
| 945. | 0.1454 | 2171. | 0.1905 | 3397. | 0.0734 |
| 946. | 0.1454 | 2172. | 0.1902 | 3398. | 0.0733 |
| 947. | 0.1454 | 2173. | 0.1897 | 3399. | 0.0735 |
| 948. | 0.1456 | 2174. | 0.1895 | 3400. | 0.0733 |
| 949. | 0.1458 | 2175. | 0.1888 | 3401. | 0.0732 |
| 950. | 0.146 | 2176. | 0.1885 | 3402. | 0.0736 |
| 951. | 0.146 | 2177. | 0.188 | 3403. | 0.0731 |
| 952. | 0.1461 | 2178. | 0.1876 | 3404. | 0.0732 |
| 953. | 0.146 | 2179. | 0.1871 | 3405. | 0.0731 |
| 954. | 0.146 | 2180. | 0.1869 | 3406. | 0.073 |
| 955. | 0.1462 | 2181. | 0.1864 | 3407. | 0.073 |
| 956. | 0.1459 | 2182. | 0.1863 | 3408. | 0.0729 |
| 957. | 0.1463 | 2183. | 0.1856 | 3409. | 0.073 |
| 958. | 0.1463 | 2184. | 0.1855 | 3410. | 0.0729 |
| 959. | 0.1465 | 2185. | 0.185 | 3411. | 0.0731 |
| 960. | 0.1466 | 2186. | 0.1848 | 3412. | 0.0729 |
| 961. | 0.1467 | 2187. | 0.1843 | 3413. | 0.073 |
| 962. | 0.1468 | 2188. | 0.1839 | 3414. | 0.073 |
| 963. | 0.1469 | 2189. | 0.1835 | 3415. | 0.073 |
| 964. | 0.147 | 2190. | 0.1831 | 3416. | 0.0729 |
| 965. | 0.1471 | 2191. | 0.1827 | 3417. | 0.0731 |
| 966. | 0.147 | 2192. | 0.1824 | 3418. | 0.0732 |
| 967. | 0.147 | 2193. | 0.1821 | 3419. | 0.0735 |
| 968. | 0.1471 | 2194. | 0.1817 | 3420. | 0.0735 |
| 969. | 0.147 | 2195. | 0.1812 | 3421. | 0.0702 |
| 970. | 0.147 | 2196. | 0.1809 | 3422. | 0.0733 |
| 971. | 0.1474 | 2197. | 0.1806 | 3423. | 0.0731 |
| 972. | 0.1473 | 2198. | 0.1803 | 3424. | 0.0729 |
| 973. | 0.1473 | 2199. | 0.1799 | 3425. | 0.0728 |
| 974. | 0.1475 | 2200. | 0.1796 | 3426. | 0.0731 |
| 975. | 0.1474 | 2201. | 0.1793 | 3427. | 0.0726 |
| 976. | 0.1474 | 2202. | 0.1788 | 3428. | 0.0726 |
| 977. | 0.1475 | 2203. | 0.1786 | 3429. | 0.0727 |
| 978. | 0.1475 | 2204. | 0.1783 | 3430. | 0.0725 |
| 979. | 0.1477 | 2205. | 0.1778 | 3431. | 0.0725 |
| 980. | 0.1477 | 2206. | 0.1775 | 3432. | 0.0725 |
| 981. | 0.1473 | 2207. | 0.1772 | 3433. | 0.0723 |
| 982. | 0.1477 | 2208. | 0.177 | 3434. | 0.0725 |
| 983. | 0.1477 | 2209. | 0.1766 | 3435. | 0.0726 |
| 984. | 0.1479 | 2210. | 0.1761 | 3436. | 0.0725 |
| 985. | 0.148 | 2211. | 0.1758 | 3437. | 0.0726 |
| 986. | 0.148 | 2212. | 0.1756 | 3438. | 0.0723 |
| 987. | 0.148 | 2213. | 0.1753 | 3439. | 0.0723 |
| 988. | 0.1481 | 2214. | 0.1747 | 3440. | 0.0724 |
| 989. | 0.1482 | 2215. | 0.1746 | 3441. | 0.0722 |
| 990. | 0.1483 | 2216. | 0.1743 | 3442. | 0.0723 |
| 991. | 0.1484 | 2217. | 0.1739 | 3443. | 0.0722 |
| 992. | 0.1485 | 2218. | 0.1735 | 3444. | 0.0722 |
| 993. | 0.1483 | 2219. | 0.1736 | 3445. | 0.0722 |
| 994. | 0.1484 | 2220. | 0.1728 | 3446. | 0.072 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 995. | 0.1486 | 2221. | 0.1726 | 3447. | 0.0719 |
| 996. | 0.1487 | 2222. | 0.1722 | 3448. | 0.072 |
| 997. | 0.1489 | 2223. | 0.1718 | 3449. | 0.0721 |
| 998. | 0.1488 | 2224. | 0.1716 | 3450. | 0.0721 |
| 999. | 0.1487 | 2225. | 0.1713 | 3451. | 0.0721 |
| 1000. | 0.1488 | 2226. | 0.1708 | 3452. | 0.072 |
| 1001. | 0.149 | 2227. | 0.1707 | 3453. | 0.072 |
| 1002. | 0.1491 | 2228. | 0.1702 | 3454. | 0.0719 |
| 1003. | 0.1492 | 2229. | 0.1701 | 3455. | 0.0719 |
| 1004. | 0.1491 | 2230. | 0.1697 | 3456. | 0.0719 |
| 1005. | 0.1494 | 2231. | 0.1694 | 3457. | 0.072 |
| 1006. | 0.1493 | 2232. | 0.169 | 3458. | 0.0719 |
| 1007. | 0.1493 | 2233. | 0.1687 | 3459. | 0.0719 |
| 1008. | 0.1495 | 2234. | 0.1684 | 3460. | 0.0718 |
| 1009. | 0.1497 | 2235. | 0.168 | 3461. | 0.0719 |
| 1010. | 0.1497 | 2236. | 0.1677 | 3462. | 0.0718 |
| 1011. | 0.1497 | 2237. | 0.1676 | 3463. | 0.0717 |
| 1012. | 0.1498 | 2238. | 0.1672 | 3464. | 0.0717 |
| 1013. | 0.1498 | 2239. | 0.167 | 3465. | 0.0715 |
| 1014. | 0.1498 | 2240. | 0.1664 | 3466. | 0.0714 |
| 1015. | 0.1499 | 2241. | 0.166 | 3467. | 0.0714 |
| 1016. | 0.1498 | 2242. | 0.1659 | 3468. | 0.0713 |
| 1017. | 0.15 | 2243. | 0.1655 | 3469. | 0.0714 |
| 1018. | 0.1501 | 2244. | 0.1653 | 3470. | 0.0716 |
| 1019. | 0.15 | 2245. | 0.1651 | 3471. | 0.0716 |
| 1020. | 0.15 | 2246. | 0.1649 | 3472. | 0.0714 |
| 1021. | 0.1501 | 2247. | 0.1646 | 3473. | 0.0716 |
| 1022. | 0.1503 | 2248. | 0.1643 | 3474. | 0.0714 |
| 1023. | 0.1504 | 2249. | 0.1641 | 3475. | 0.0715 |
| 1024. | 0.1504 | 2250. | 0.1636 | 3476. | 0.0716 |
| 1025. | 0.1504 | 2251. | 0.1634 | 3477. | 0.0714 |
| 1026. | 0.1505 | 2252. | 0.1631 | 3478. | 0.0716 |
| 1027. | 0.1505 | 2253. | 0.1628 | 3479. | 0.0714 |
| 1028. | 0.1507 | 2254. | 0.1626 | 3480. | 0.0714 |
| 1029. | 0.1508 | 2255. | 0.1623 | 3481. | 0.0712 |
| 1030. | 0.1507 | 2256. | 0.1622 | 3482. | 0.0712 |
| 1031. | 0.1508 | 2257. | 0.1618 | 3483. | 0.0713 |
| 1032. | 0.1508 | 2258. | 0.1614 | 3484. | 0.0712 |
| 1033. | 0.151 | 2259. | 0.1611 | 3485. | 0.0711 |
| 1034. | 0.1511 | 2260. | 0.1609 | 3486. | 0.0713 |
| 1035. | 0.1509 | 2261. | 0.1605 | 3487. | 0.0711 |
| 1036. | 0.1512 | 2262. | 0.1605 | 3488. | 0.0711 |
| 1037. | 0.1512 | 2263. | 0.1602 | 3489. | 0.0709 |
| 1038. | 0.1513 | 2264. | 0.1599 | 3490. | 0.0711 |
| 1039. | 0.1514 | 2265. | 0.1596 | 3491. | 0.071 |
| 1040. | 0.1513 | 2266. | 0.1595 | 3492. | 0.071 |
| 1041. | 0.1515 | 2267. | 0.1589 | 3493. | 0.071 |
| 1042. | 0.1515 | 2268. | 0.1587 | 3494. | 0.071 |
| 1043. | 0.1515 | 2269. | 0.1582 | 3495. | 0.071 |
| 1044. | 0.1518 | 2270. | 0.1581 | 3496. | 0.071 |
| 1045. | 0.1517 | 2271. | 0.158 | 3497. | 0.0711 |
| 1046. | 0.1515 | 2272. | 0.1578 | 3498. | 0.0708 |
| 1047. | 0.1517 | 2273. | 0.1574 | 3499. | 0.071 |
| 1048. | 0.1514 | 2274. | 0.1573 | 3500. | 0.071 |
| 1049. | 0.1516 | 2275. | 0.1569 | 3501. | 0.0711 |
| 1050. | 0.1519 | 2276. | 0.1568 | 3502. | 0.0711 |
| 1051. | 0.1519 | 2277. | 0.1564 | 3503. | 0.0711 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1052. | 0.1519 | 2278. | 0.1564 | 3504. | 0.071 |
| 1053. | 0.152 | 2279. | 0.156 | 3505. | 0.0712 |
| 1054. | 0.152 | 2280. | 0.1557 | 3506. | 0.071 |
| 1055. | 0.152 | 2281. | 0.1555 | 3507. | 0.071 |
| 1056. | 0.1523 | 2282. | 0.1554 | 3508. | 0.071 |
| 1057. | 0.1525 | 2283. | 0.155 | 3509. | 0.0708 |
| 1058. | 0.1525 | 2284. | 0.155 | 3510. | 0.0708 |
| 1059. | 0.1527 | 2285. | 0.1545 | 3511. | 0.0708 |
| 1060. | 0.1524 | 2286. | 0.1543 | 3512. | 0.0706 |
| 1061. | 0.1525 | 2287. | 0.1541 | 3513. | 0.0708 |
| 1062. | 0.1527 | 2288. | 0.1541 | 3514. | 0.0705 |
| 1063. | 0.1526 | 2289. | 0.1535 | 3515. | 0.0706 |
| 1064. | 0.1526 | 2290. | 0.1534 | 3516. | 0.0706 |
| 1065. | 0.1528 | 2291. | 0.1531 | 3517. | 0.0707 |
| 1066. | 0.1528 | 2292. | 0.1527 | 3518. | 0.0708 |
| 1067. | 0.153 | 2293. | 0.1527 | 3519. | 0.0706 |
| 1068. | 0.1527 | 2294. | 0.1527 | 3520. | 0.0706 |
| 1069. | 0.1529 | 2295. | 0.1522 | 3521. | 0.0706 |
| 1070. | 0.1532 | 2296. | 0.1522 | 3522. | 0.0705 |
| 1071. | 0.1534 | 2297. | 0.1518 | 3523. | 0.0704 |
| 1072. | 0.1532 | 2298. | 0.1515 | 3524. | 0.0705 |
| 1073. | 0.1534 | 2299. | 0.1515 | 3525. | 0.0704 |
| 1074. | 0.1535 | 2300. | 0.1511 | 3526. | 0.0704 |
| 1075. | 0.1535 | 2301. | 0.1509 | 3527. | 0.0703 |
| 1076. | 0.1536 | 2302. | 0.1507 | 3528. | 0.0702 |
| 1077. | 0.1535 | 2303. | 0.1505 | 3529. | 0.0703 |
| 1078. | 0.1534 | 2304. | 0.1501 | 3530. | 0.0701 |
| 1079. | 0.1536 | 2305. | 0.1501 | 3531. | 0.0701 |
| 1080. | 0.1534 | 2306. | 0.1499 | 3532. | 0.0702 |
| 1081. | 0.1534 | 2307. | 0.1496 | 3533. | 0.07 |
| 1082. | 0.1535 | 2308. | 0.1493 | 3534. | 0.0701 |
| 1083. | 0.1536 | 2309. | 0.1492 | 3535. | 0.07 |
| 1084. | 0.1535 | 2310. | 0.1488 | 3536. | 0.07 |
| 1085. | 0.1538 | 2311. | 0.1486 | 3537. | 0.07 |
| 1086. | 0.1538 | 2312. | 0.1484 | 3538. | 0.07 |
| 1087. | 0.1539 | 2313. | 0.1484 | 3539. | 0.0702 |
| 1088. | 0.1543 | 2314. | 0.1482 | 3540. | 0.0701 |
| 1089. | 0.1541 | 2315. | 0.1478 | 3541. | 0.0702 |
| 1090. | 0.1541 | 2316. | 0.1476 | 3542. | 0.0701 |
| 1091. | 0.1541 | 2317. | 0.1475 | 3543. | 0.0699 |
| 1092. | 0.1542 | 2318. | 0.1471 | 3544. | 0.0699 |
| 1093. | 0.1541 | 2319. | 0.1471 | 3545. | 0.0699 |
| 1094. | 0.1541 | 2320. | 0.1469 | 3546. | 0.0698 |
| 1095. | 0.1541 | 2321. | 0.1466 | 3547. | 0.0699 |
| 1096. | 0.1544 | 2322. | 0.1464 | 3548. | 0.0698 |
| 1097. | 0.1543 | 2323. | 0.146 | 3549. | 0.0697 |
| 1098. | 0.1544 | 2324. | 0.1459 | 3550. | 0.0699 |
| 1099. | 0.1544 | 2325. | 0.1457 | 3551. | 0.0698 |
| 1100. | 0.1544 | 2326. | 0.1455 | 3552. | 0.0697 |
| 1101. | 0.1545 | 2327. | 0.1455 | 3553. | 0.0699 |
| 1102. | 0.1546 | 2328. | 0.145 | 3554. | 0.0699 |
| 1103. | 0.1548 | 2329. | 0.145 | 3555. | 0.07 |
| 1104. | 0.1547 | 2330. | 0.1448 | 3556. | 0.0698 |
| 1105. | 0.1548 | 2331. | 0.1448 | 3557. | 0.0696 |
| 1106. | 0.1549 | 2332. | 0.1446 | 3558. | 0.0697 |
| 1107. | 0.1549 | 2333. | 0.1443 | 3559. | 0.0697 |
| 1108. | 0.1549 | 2334. | 0.1442 | 3560. | 0.0695 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1109. | 0.1551 | 2335. | 0.1439 | 3561. | 0.0697 |
| 1110. | 0.1552 | 2336. | 0.1438 | 3562. | 0.0697 |
| 1111. | 0.1552 | 2337. | 0.1434 | 3563. | 0.0696 |
| 1112. | 0.1552 | 2338. | 0.1431 | 3564. | 0.0696 |
| 1113. | 0.1554 | 2339. | 0.143 | 3565. | 0.0696 |
| 1114. | 0.1553 | 2340. | 0.1428 | 3566. | 0.0695 |
| 1115. | 0.1554 | 2341. | 0.1425 | 3567. | 0.0695 |
| 1116. | 0.1554 | 2342. | 0.1422 | 3568. | 0.0695 |
| 1117. | 0.1554 | 2343. | 0.1423 | 3569. | 0.0694 |
| 1118. | 0.1554 | 2344. | 0.1421 | 3570. | 0.0694 |
| 1119. | 0.1555 | 2345. | 0.1419 | 3571. | 0.0693 |
| 1120. | 0.1556 | 2346. | 0.1416 | 3572. | 0.0693 |
| 1121. | 0.1557 | 2347. | 0.1415 | 3573. | 0.0693 |
| 1122. | 0.1557 | 2348. | 0.1412 | 3574. | 0.0693 |
| 1123. | 0.1557 | 2349. | 0.1409 | 3575. | 0.0692 |
| 1124. | 0.1559 | 2350. | 0.1409 | 3576. | 0.0691 |
| 1125. | 0.156 | 2351. | 0.1405 | 3577. | 0.0692 |
| 1126. | 0.1563 | 2352. | 0.1405 | 3578. | 0.0691 |
| 1127. | 0.156 | 2353. | 0.1403 | 3579. | 0.0693 |
| 1128. | 0.1562 | 2354. | 0.1399 | 3580. | 0.0694 |
| 1129. | 0.1562 | 2355. | 0.1399 | 3581. | 0.0692 |
| 1130. | 0.1562 | 2356. | 0.1396 | 3582. | 0.0691 |
| 1131. | 0.1561 | 2357. | 0.1395 | 3583. | 0.069 |
| 1132. | 0.1561 | 2358. | 0.1394 | 3584. | 0.069 |
| 1133. | 0.1561 | 2359. | 0.1393 | 3585. | 0.069 |
| 1134. | 0.156 | 2360. | 0.139 | 3586. | 0.069 |
| 1135. | 0.1562 | 2361. | 0.1388 | 3587. | 0.069 |
| 1136. | 0.1564 | 2362. | 0.1385 | 3588. | 0.0689 |
| 1137. | 0.1563 | 2363. | 0.1385 | 3589. | 0.0691 |
| 1138. | 0.1564 | 2364. | 0.1382 | 3590. | 0.0689 |
| 1139. | 0.1568 | 2365. | 0.138 | 3591. | 0.0689 |
| 1140. | 0.1565 | 2366. | 0.138 | 3592. | 0.0688 |
| 1141. | 0.1568 | 2367. | 0.1379 | 3593. | 0.0688 |
| 1142. | 0.157 | 2368. | 0.1375 | 3594. | 0.069 |
| 1143. | 0.157 | 2369. | 0.1375 | 3595. | 0.069 |
| 1144. | 0.1571 | 2370. | 0.1371 | 3596. | 0.069 |
| 1145. | 0.157 | 2371. | 0.1371 | 3597. | 0.0692 |
| 1146. | 0.1574 | 2372. | 0.1369 | 3598. | 0.0689 |
| 1147. | 0.1574 | 2373. | 0.1369 | 3599. | 0.0691 |
| 1148. | 0.1572 | 2374. | 0.1367 | 3600. | 0.0691 |
| 1149. | 0.157 | 2375. | 0.1366 | 3601. | 0.0687 |
| 1150. | 0.157 | 2376. | 0.1363 | 3602. | 0.0687 |
| 1151. | 0.1571 | 2377. | 0.136 | 3603. | 0.0689 |
| 1152. | 0.1573 | 2378. | 0.1358 | 3604. | 0.0688 |
| 1153. | 0.1575 | 2379. | 0.1357 | 3605. | 0.0687 |
| 1154. | 0.1576 | 2380. | 0.1357 | 3606. | 0.069 |
| 1155. | 0.1577 | 2381. | 0.1354 | 3607. | 0.0686 |
| 1156. | 0.1576 | 2382. | 0.1354 | 3608. | 0.0687 |
| 1157. | 0.1577 | 2383. | 0.1352 | 3609. | 0.0687 |
| 1158. | 0.1576 | 2384. | 0.1351 | 3610. | 0.0685 |
| 1159. | 0.1578 | 2385. | 0.1348 | 3611. | 0.0684 |
| 1160. | 0.158 | 2386. | 0.1347 | 3612. | 0.0686 |
| 1161. | 0.1581 | 2387. | 0.1344 | 3613. | 0.0684 |
| 1162. | 0.1579 | 2388. | 0.1343 | 3614. | 0.0686 |
| 1163. | 0.1578 | 2389. | 0.1341 | 3615. | 0.0683 |
| 1164. | 0.1581 | 2390. | 0.134 | 3616. | 0.0683 |
| 1165. | 0.158 | 2391. | 0.1338 | 3617. | 0.0684 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1166. | 0.1579 | 2392. | 0.1336 | 3618. | 0.0682 |
| 1167. | 0.1581 | 2393. | 0.1335 | 3619. | 0.0684 |
| 1168. | 0.1581 | 2394. | 0.1333 | 3620. | 0.0682 |
| 1169. | 0.1583 | 2395. | 0.1334 | 3621. | 0.0684 |
| 1170. | 0.1582 | 2396. | 0.1331 | 3622. | 0.0683 |
| 1171. | 0.1583 | 2397. | 0.1328 | 3623. | 0.0684 |
| 1172. | 0.1583 | 2398. | 0.1327 | 3624. | 0.0684 |
| 1173. | 0.1584 | 2399. | 0.1327 | 3625. | 0.0684 |
| 1174. | 0.1584 | 2400. | 0.1325 | 3626. | 0.0684 |
| 1175. | 0.1585 | 2401. | 0.1324 | 3627. | 0.0684 |
| 1176. | 0.1584 | 2402. | 0.1321 | 3628. | 0.0683 |
| 1177. | 0.1587 | 2403. | 0.132 | 3629. | 0.0684 |
| 1178. | 0.1587 | 2404. | 0.1319 | 3630. | 0.0684 |
| 1179. | 0.1588 | 2405. | 0.1316 | 3631. | 0.0683 |
| 1180. | 0.159 | 2406. | 0.1315 | 3632. | 0.0682 |
| 1181. | 0.159 | 2407. | 0.1313 | 3633. | 0.0683 |
| 1182. | 0.1588 | 2408. | 0.1312 | 3634. | 0.0681 |
| 1183. | 0.159 | 2409. | 0.131 | 3635. | 0.0685 |
| 1184. | 0.1588 | 2410. | 0.1309 | 3636. | 0.0683 |
| 1185. | 0.1589 | 2411. | 0.1308 | 3637. | 0.0683 |
| 1186. | 0.159 | 2412. | 0.1304 | 3638. | 0.0683 |
| 1187. | 0.1589 | 2413. | 0.1304 | 3639. | 0.068 |
| 1188. | 0.1592 | 2414. | 0.1301 | 3640. | 0.0683 |
| 1189. | 0.1593 | 2415. | 0.1302 | 3641. | 0.0681 |
| 1190. | 0.1593 | 2416. | 0.1299 | 3642. | 0.0682 |
| 1191. | 0.1594 | 2417. | 0.1299 | 3643. | 0.0678 |
| 1192. | 0.1593 | 2418. | 0.1297 | 3644. | 0.068 |
| 1193. | 0.1593 | 2419. | 0.1296 | 3645. | 0.068 |
| 1194. | 0.1593 | 2420. | 0.1294 | 3646. | 0.068 |
| 1195. | 0.1594 | 2421. | 0.1293 | 3647. | 0.0681 |
| 1196. | 0.1594 | 2422. | 0.129 | 3648. | 0.0679 |
| 1197. | 0.1594 | 2423. | 0.1292 | 3649. | 0.0678 |
| 1198. | 0.1595 | 2424. | 0.1289 | 3650. | 0.0677 |
| 1199. | 0.1597 | 2425. | 0.1287 | 3651. | 0.0678 |
| 1200. | 0.1597 | 2426. | 0.1286 | 3652. | 0.0675 |
| 1201. | 0.1597 | 2427. | 0.1285 | 3653. | 0.0677 |
| 1202. | 0.16 | 2428. | 0.1283 | 3654. | 0.0677 |
| 1203. | 0.1601 | 2429. | 0.1283 | 3655. | 0.0675 |
| 1204. | 0.16 | 2430. | 0.1281 | 3656. | 0.0676 |
| 1205. | 0.16 | 2431. | 0.1278 | 3657. | 0.0676 |
| 1206. | 0.1599 | 2432. | 0.1277 | 3658. | 0.0677 |
| 1207. | 0.1598 | 2433. | 0.1274 | 3659. | 0.0676 |
| 1208. | 0.16 | 2434. | 0.1275 | 3660. | 0.0675 |
| 1209. | 0.1602 | 2435. | 0.1274 | 3661. | 0.0675 |
| 1210. | 0.1603 | 2436. | 0.1272 | 3662. | 0.0676 |
| 1211. | 0.1604 | 2437. | 0.1271 | 3663. | 0.0677 |
| 1212. | 0.1604 | 2438. | 0.1271 | 3664. | 0.0676 |
| 1213. | 0.1605 | 2439. | 0.1269 | 3665. | 0.0675 |
| 1214. | 0.1607 | 2440. | 0.1267 | 3666. | 0.0675 |
| 1215. | 0.1608 | 2441. | 0.1265 | 3667. | 0.0674 |
| 1216. | 0.161 | 2442. | 0.1263 | 3668. | 0.0673 |
| 1217. | 0.161 | 2443. | 0.1261 | 3669. | 0.0674 |
| 1218. | 0.1608 | 2444. | 0.1261 | 3670. | 0.0674 |
| 1219. | 0.161 | 2445. | 0.1258 | 3671. | 0.0672 |
| 1220. | 0.1609 | 2446. | 0.1256 | 3672. | 0.0674 |
| 1221. | 0.161 | 2447. | 0.1257 | 3673. | 0.0675 |
| 1222. | 0.161 | 2448. | 0.1257 | 3674. | 0.0673 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1223. | 0.1611 | 2449. | 0.1255 | 3675. | 0.0672 |
| 1224. | 0.161 | 2450. | 0.1255 | 3676. | 0.0673 |
| 1225. | 0.1611 | 2451. | 0.1252 | 3677. | 0.0671 |
| 1226. | 0.1613 | 2452. | 0.1249 | 3678. | 0.0673 |

SOLUTION

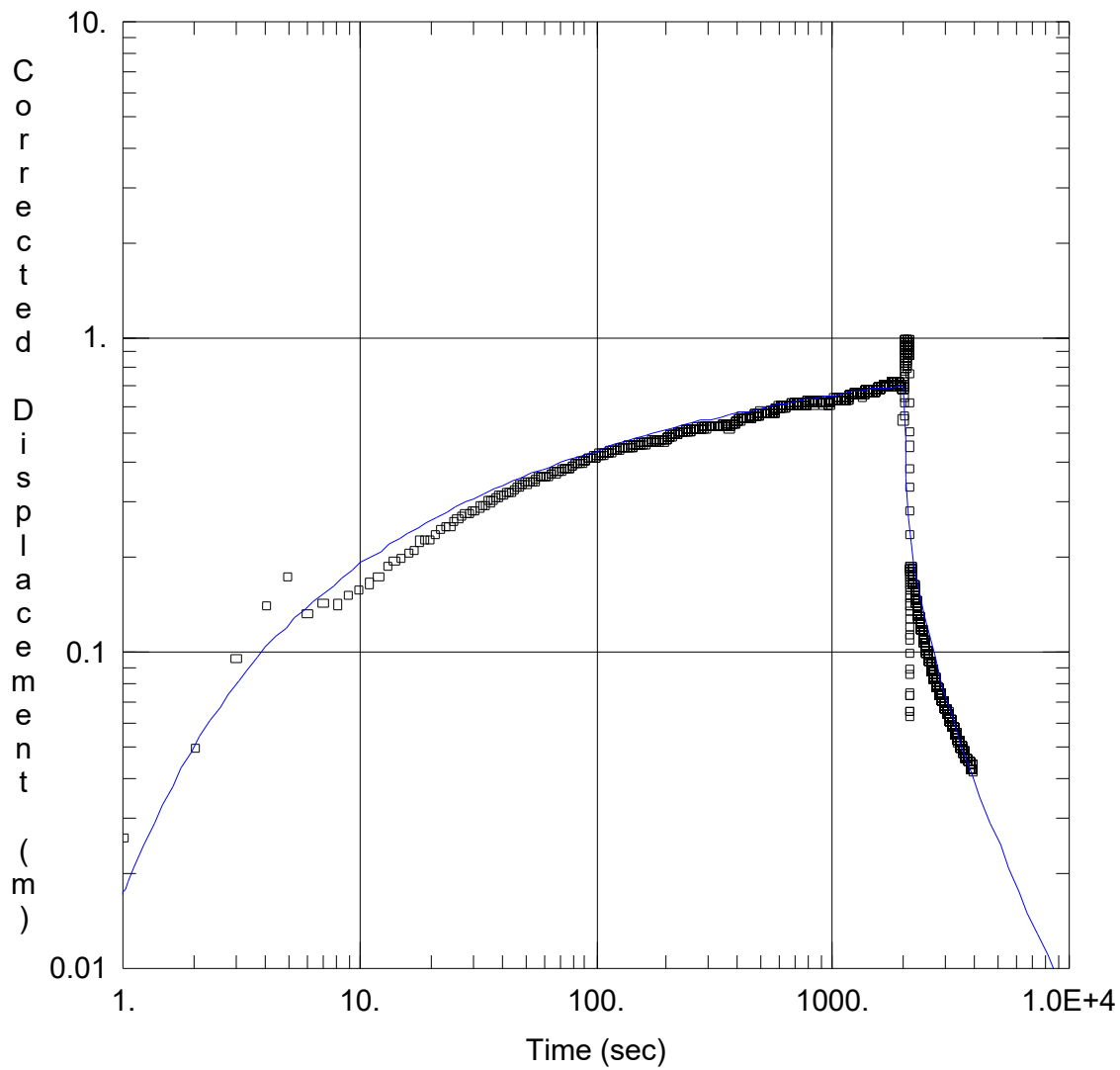
Pumping Test
Aquifer Model: Unconfined
Solution Method: Theis

VISUAL ESTIMATION RESULTS

Estimated Parameters

| <u>Parameter</u> | <u>Estimate</u> | |
|------------------|-----------------|---------------------|
| T | 9.808E-5 | m ² /sec |
| S | 8.757E-5 | |
| Kz/Kr | 1. | |
| b | 9.1 | m |

K = T/b = 1.078E-5 m/sec (0.001078 cm/sec)
Ss = S/b = 9.623E-6 1/m



WELL TEST ANALYSIS

Data Set: C:\...\1. MW23-04 Pump Test Wizard .jpg.aqt

Date: 10/18/23

Time: 13:32:17

PROJECT INFORMATION

Company: Englobe Corp.

Client: Churchill Properties Inc.

Project: 02103035

Location: 424 Churchill

Test Well: MW23-04

Test Date: August 17, 2023

WELL DATA

Pumping Wells

| Well Name | X (m) | Y (m) |
|-----------|-------|-------|
| MW23-04 | 18 | 0 |

Observation Wells

| Well Name | X (m) | Y (m) |
|-----------|-------|-------|
| □ MW23-04 | 18 | 0 |

SOLUTION

Aquifer Model: Unconfined

Solution Method: Theis

T = 0.0005009 m²/sec

S = 1.253

Kz/Kr = 1.

b = 9.1 m

Data Set: C:\Users\gobeje\OneDrive - EnGlobe Corp\Documents\Churchill Avenue\HydroG Assesment - 2023\Appendix
Date: 10/19/23
Time: 16:01:57

PROJECT INFORMATION

Company: Englobe Corp.
Client: Churchill Properties Inc.
Project: 02103035
Location: 424 Churchill
Test Date: August 17, 2023
Test Well: MW23-04

AQUIFER DATA

Saturated Thickness: 9.1 m
Anisotropy Ratio (Kz/Kr): 1.

PUMPING WELL DATA

No. of pumping wells: 1

Pumping Well No. 1: MW23-04

X Location: 18. m
Y Location: 0. m

Casing Radius: 0.0254 m
Well Radius: 0.045 m

Partially Penetrating Well
Depth to Top of Screen: 0. m
Depth to Bottom of Screen: 1. m

No. of pumping periods: 2

| <u>Pumping Period Data</u> | | | |
|----------------------------|---------------------|-------------------|---------------------|
| <u>Time (sec)</u> | <u>Rate (L/min)</u> | <u>Time (sec)</u> | <u>Rate (L/min)</u> |
| 0. | 5. | 2006. | 0. |

OBSERVATION WELL DATA

No. of observation wells: 1

Observation Well No. 1: MW23-04

X Location: 18. m
Y Location: 0. m

Radial distance from MW23-04: 0. m

Partially Penetrating Well
Depth to Top of Screen: 0. m
Depth to Bottom of Screen: 1. m

No. of Observations: 3930

Observation Data

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1. | 0.026 | 1311. | 0.687 | 2621. | 0.09 |
| 2. | 0.05 | 1312. | 0.683 | 2622. | 0.09 |
| 3. | 0.096 | 1313. | 0.684 | 2623. | 0.09 |
| 4. | 0.141 | 1314. | 0.683 | 2624. | 0.09 |
| 5. | 0.174 | 1315. | 0.688 | 2625. | 0.09 |
| 6. | 0.133 | 1316. | 0.684 | 2626. | 0.09 |
| 7. | 0.144 | 1317. | 0.686 | 2627. | 0.09 |
| 8. | 0.143 | 1318. | 0.689 | 2628. | 0.089 |
| 9. | 0.154 | 1319. | 0.688 | 2629. | 0.089 |
| 10. | 0.16 | 1320. | 0.685 | 2630. | 0.089 |
| 11. | 0.167 | 1321. | 0.686 | 2631. | 0.089 |
| 12. | 0.176 | 1322. | 0.685 | 2632. | 0.089 |
| 13. | 0.188 | 1323. | 0.687 | 2633. | 0.089 |
| 14. | 0.196 | 1324. | 0.688 | 2634. | 0.089 |
| 15. | 0.202 | 1325. | 0.682 | 2635. | 0.089 |
| 16. | 0.208 | 1326. | 0.682 | 2636. | 0.089 |
| 17. | 0.214 | 1327. | 0.687 | 2637. | 0.089 |
| 18. | 0.228 | 1328. | 0.683 | 2638. | 0.089 |
| 19. | 0.23 | 1329. | 0.687 | 2639. | 0.088 |
| 20. | 0.232 | 1330. | 0.69 | 2640. | 0.088 |
| 21. | 0.24 | 1331. | 0.686 | 2641. | 0.088 |
| 22. | 0.247 | 1332. | 0.687 | 2642. | 0.088 |
| 23. | 0.252 | 1333. | 0.684 | 2643. | 0.088 |
| 24. | 0.255 | 1334. | 0.682 | 2644. | 0.088 |
| 25. | 0.265 | 1335. | 0.683 | 2645. | 0.088 |
| 26. | 0.267 | 1336. | 0.687 | 2646. | 0.087 |
| 27. | 0.273 | 1337. | 0.685 | 2647. | 0.087 |
| 28. | 0.278 | 1338. | 0.681 | 2648. | 0.087 |
| 29. | 0.278 | 1339. | 0.687 | 2649. | 0.087 |
| 30. | 0.285 | 1340. | 0.689 | 2650. | 0.087 |
| 31. | 0.288 | 1341. | 0.687 | 2651. | 0.087 |
| 32. | 0.294 | 1342. | 0.683 | 2652. | 0.087 |
| 33. | 0.297 | 1343. | 0.682 | 2653. | 0.087 |
| 34. | 0.297 | 1344. | 0.68 | 2654. | 0.087 |
| 35. | 0.307 | 1345. | 0.682 | 2655. | 0.087 |
| 36. | 0.306 | 1346. | 0.683 | 2656. | 0.087 |
| 37. | 0.309 | 1347. | 0.679 | 2657. | 0.087 |
| 38. | 0.315 | 1348. | 0.686 | 2658. | 0.087 |
| 39. | 0.318 | 1349. | 0.682 | 2659. | 0.087 |
| 40. | 0.32 | 1350. | 0.681 | 2660. | 0.087 |
| 41. | 0.324 | 1351. | 0.679 | 2661. | 0.087 |
| 42. | 0.325 | 1352. | 0.679 | 2662. | 0.087 |
| 43. | 0.33 | 1353. | 0.683 | 2663. | 0.087 |
| 44. | 0.33 | 1354. | 0.68 | 2664. | 0.087 |
| 45. | 0.334 | 1355. | 0.663 | 2665. | 0.087 |
| 46. | 0.338 | 1356. | 0.677 | 2666. | 0.087 |
| 47. | 0.341 | 1357. | 0.685 | 2667. | 0.087 |
| 48. | 0.349 | 1358. | 0.683 | 2668. | 0.087 |
| 49. | 0.346 | 1359. | 0.686 | 2669. | 0.087 |
| 50. | 0.352 | 1360. | 0.689 | 2670. | 0.087 |
| 51. | 0.347 | 1361. | 0.692 | 2671. | 0.086 |
| 52. | 0.355 | 1362. | 0.692 | 2672. | 0.086 |
| 53. | 0.356 | 1363. | 0.691 | 2673. | 0.086 |
| 54. | 0.355 | 1364. | 0.696 | 2674. | 0.086 |
| 55. | 0.355 | 1365. | 0.693 | 2675. | 0.086 |
| 56. | 0.362 | 1366. | 0.694 | 2676. | 0.086 |
| 57. | 0.367 | 1367. | 0.691 | 2677. | 0.086 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 58. | 0.366 | 1368. | 0.699 | 2678. | 0.086 |
| 59. | 0.369 | 1369. | 0.695 | 2679. | 0.086 |
| 60. | 0.368 | 1370. | 0.698 | 2680. | 0.085 |
| 61. | 0.368 | 1371. | 0.696 | 2681. | 0.086 |
| 62. | 0.37 | 1372. | 0.697 | 2682. | 0.086 |
| 63. | 0.37 | 1373. | 0.7 | 2683. | 0.085 |
| 64. | 0.378 | 1374. | 0.701 | 2684. | 0.085 |
| 65. | 0.375 | 1375. | 0.699 | 2685. | 0.085 |
| 66. | 0.38 | 1376. | 0.705 | 2686. | 0.085 |
| 67. | 0.38 | 1377. | 0.699 | 2687. | 0.085 |
| 68. | 0.379 | 1378. | 0.7 | 2688. | 0.085 |
| 69. | 0.381 | 1379. | 0.698 | 2689. | 0.085 |
| 70. | 0.383 | 1380. | 0.699 | 2690. | 0.085 |
| 71. | 0.384 | 1381. | 0.698 | 2691. | 0.085 |
| 72. | 0.391 | 1382. | 0.698 | 2692. | 0.084 |
| 73. | 0.391 | 1383. | 0.699 | 2693. | 0.084 |
| 74. | 0.393 | 1384. | 0.705 | 2694. | 0.084 |
| 75. | 0.392 | 1385. | 0.7 | 2695. | 0.084 |
| 76. | 0.39 | 1386. | 0.699 | 2696. | 0.084 |
| 77. | 0.388 | 1387. | 0.703 | 2697. | 0.084 |
| 78. | 0.394 | 1388. | 0.701 | 2698. | 0.084 |
| 79. | 0.401 | 1389. | 0.706 | 2699. | 0.084 |
| 80. | 0.399 | 1390. | 0.7 | 2700. | 0.084 |
| 81. | 0.405 | 1391. | 0.703 | 2701. | 0.084 |
| 82. | 0.408 | 1392. | 0.702 | 2702. | 0.084 |
| 83. | 0.405 | 1393. | 0.709 | 2703. | 0.083 |
| 84. | 0.408 | 1394. | 0.707 | 2704. | 0.083 |
| 85. | 0.409 | 1395. | 0.706 | 2705. | 0.083 |
| 86. | 0.412 | 1396. | 0.708 | 2706. | 0.083 |
| 87. | 0.41 | 1397. | 0.704 | 2707. | 0.083 |
| 88. | 0.412 | 1398. | 0.699 | 2708. | 0.083 |
| 89. | 0.413 | 1399. | 0.707 | 2709. | 0.083 |
| 90. | 0.417 | 1400. | 0.705 | 2710. | 0.083 |
| 91. | 0.415 | 1401. | 0.708 | 2711. | 0.083 |
| 92. | 0.42 | 1402. | 0.699 | 2712. | 0.083 |
| 93. | 0.423 | 1403. | 0.7 | 2713. | 0.083 |
| 94. | 0.423 | 1404. | 0.704 | 2714. | 0.083 |
| 95. | 0.422 | 1405. | 0.708 | 2715. | 0.083 |
| 96. | 0.423 | 1406. | 0.706 | 2716. | 0.082 |
| 97. | 0.426 | 1407. | 0.705 | 2717. | 0.083 |
| 98. | 0.425 | 1408. | 0.701 | 2718. | 0.083 |
| 99. | 0.427 | 1409. | 0.699 | 2719. | 0.082 |
| 100. | 0.427 | 1410. | 0.708 | 2720. | 0.082 |
| 101. | 0.43 | 1411. | 0.701 | 2721. | 0.082 |
| 102. | 0.432 | 1412. | 0.705 | 2722. | 0.082 |
| 103. | 0.434 | 1413. | 0.707 | 2723. | 0.082 |
| 104. | 0.438 | 1414. | 0.698 | 2724. | 0.082 |
| 105. | 0.433 | 1415. | 0.702 | 2725. | 0.082 |
| 106. | 0.43 | 1416. | 0.706 | 2726. | 0.082 |
| 107. | 0.437 | 1417. | 0.705 | 2727. | 0.082 |
| 108. | 0.435 | 1418. | 0.703 | 2728. | 0.082 |
| 109. | 0.442 | 1419. | 0.704 | 2729. | 0.082 |
| 110. | 0.44 | 1420. | 0.699 | 2730. | 0.081 |
| 111. | 0.441 | 1421. | 0.705 | 2731. | 0.082 |
| 112. | 0.44 | 1422. | 0.702 | 2732. | 0.082 |
| 113. | 0.44 | 1423. | 0.703 | 2733. | 0.081 |
| 114. | 0.442 | 1424. | 0.704 | 2734. | 0.081 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 115. | 0.444 | 1425. | 0.7 | 2735. | 0.081 |
| 116. | 0.445 | 1426. | 0.703 | 2736. | 0.081 |
| 117. | 0.448 | 1427. | 0.703 | 2737. | 0.081 |
| 118. | 0.443 | 1428. | 0.707 | 2738. | 0.081 |
| 119. | 0.449 | 1429. | 0.706 | 2739. | 0.081 |
| 120. | 0.447 | 1430. | 0.704 | 2740. | 0.081 |
| 121. | 0.45 | 1431. | 0.702 | 2741. | 0.08 |
| 122. | 0.452 | 1432. | 0.701 | 2742. | 0.08 |
| 123. | 0.45 | 1433. | 0.705 | 2743. | 0.08 |
| 124. | 0.451 | 1434. | 0.703 | 2744. | 0.08 |
| 125. | 0.453 | 1435. | 0.705 | 2745. | 0.08 |
| 126. | 0.454 | 1436. | 0.708 | 2746. | 0.081 |
| 127. | 0.457 | 1437. | 0.702 | 2747. | 0.08 |
| 128. | 0.454 | 1438. | 0.706 | 2748. | 0.08 |
| 129. | 0.461 | 1439. | 0.705 | 2749. | 0.08 |
| 130. | 0.461 | 1440. | 0.704 | 2750. | 0.08 |
| 131. | 0.455 | 1441. | 0.701 | 2751. | 0.08 |
| 132. | 0.454 | 1442. | 0.7 | 2752. | 0.08 |
| 133. | 0.456 | 1443. | 0.704 | 2753. | 0.08 |
| 134. | 0.46 | 1444. | 0.7 | 2754. | 0.08 |
| 135. | 0.461 | 1445. | 0.7 | 2755. | 0.08 |
| 136. | 0.461 | 1446. | 0.703 | 2756. | 0.08 |
| 137. | 0.463 | 1447. | 0.702 | 2757. | 0.08 |
| 138. | 0.463 | 1448. | 0.703 | 2758. | 0.08 |
| 139. | 0.462 | 1449. | 0.704 | 2759. | 0.08 |
| 140. | 0.465 | 1450. | 0.705 | 2760. | 0.08 |
| 141. | 0.461 | 1451. | 0.7 | 2761. | 0.08 |
| 142. | 0.463 | 1452. | 0.706 | 2762. | 0.08 |
| 143. | 0.463 | 1453. | 0.708 | 2763. | 0.08 |
| 144. | 0.462 | 1454. | 0.706 | 2764. | 0.079 |
| 145. | 0.464 | 1455. | 0.702 | 2765. | 0.079 |
| 146. | 0.467 | 1456. | 0.704 | 2766. | 0.079 |
| 147. | 0.467 | 1457. | 0.703 | 2767. | 0.079 |
| 148. | 0.466 | 1458. | 0.703 | 2768. | 0.08 |
| 149. | 0.466 | 1459. | 0.702 | 2769. | 0.079 |
| 150. | 0.467 | 1460. | 0.703 | 2770. | 0.079 |
| 151. | 0.468 | 1461. | 0.705 | 2771. | 0.079 |
| 152. | 0.468 | 1462. | 0.705 | 2772. | 0.079 |
| 153. | 0.477 | 1463. | 0.701 | 2773. | 0.079 |
| 154. | 0.479 | 1464. | 0.705 | 2774. | 0.079 |
| 155. | 0.469 | 1465. | 0.707 | 2775. | 0.079 |
| 156. | 0.471 | 1466. | 0.704 | 2776. | 0.079 |
| 157. | 0.473 | 1467. | 0.706 | 2777. | 0.079 |
| 158. | 0.471 | 1468. | 0.706 | 2778. | 0.079 |
| 159. | 0.473 | 1469. | 0.703 | 2779. | 0.078 |
| 160. | 0.474 | 1470. | 0.705 | 2780. | 0.078 |
| 161. | 0.472 | 1471. | 0.708 | 2781. | 0.078 |
| 162. | 0.473 | 1472. | 0.7 | 2782. | 0.078 |
| 163. | 0.475 | 1473. | 0.705 | 2783. | 0.078 |
| 164. | 0.476 | 1474. | 0.707 | 2784. | 0.078 |
| 165. | 0.475 | 1475. | 0.705 | 2785. | 0.078 |
| 166. | 0.475 | 1476. | 0.702 | 2786. | 0.078 |
| 167. | 0.476 | 1477. | 0.704 | 2787. | 0.078 |
| 168. | 0.478 | 1478. | 0.704 | 2788. | 0.078 |
| 169. | 0.478 | 1479. | 0.703 | 2789. | 0.078 |
| 170. | 0.478 | 1480. | 0.708 | 2790. | 0.078 |
| 171. | 0.483 | 1481. | 0.702 | 2791. | 0.078 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 172. | 0.475 | 1482. | 0.699 | 2792. | 0.078 |
| 173. | 0.479 | 1483. | 0.705 | 2793. | 0.077 |
| 174. | 0.479 | 1484. | 0.7 | 2794. | 0.077 |
| 175. | 0.481 | 1485. | 0.705 | 2795. | 0.078 |
| 176. | 0.482 | 1486. | 0.703 | 2796. | 0.077 |
| 177. | 0.479 | 1487. | 0.7 | 2797. | 0.077 |
| 178. | 0.481 | 1488. | 0.701 | 2798. | 0.077 |
| 179. | 0.481 | 1489. | 0.703 | 2799. | 0.078 |
| 180. | 0.48 | 1490. | 0.703 | 2800. | 0.077 |
| 181. | 0.48 | 1491. | 0.708 | 2801. | 0.077 |
| 182. | 0.482 | 1492. | 0.702 | 2802. | 0.078 |
| 183. | 0.485 | 1493. | 0.704 | 2803. | 0.077 |
| 184. | 0.481 | 1494. | 0.703 | 2804. | 0.076 |
| 185. | 0.482 | 1495. | 0.703 | 2805. | 0.078 |
| 186. | 0.484 | 1496. | 0.706 | 2806. | 0.077 |
| 187. | 0.485 | 1497. | 0.709 | 2807. | 0.077 |
| 188. | 0.489 | 1498. | 0.702 | 2808. | 0.077 |
| 189. | 0.487 | 1499. | 0.709 | 2809. | 0.077 |
| 190. | 0.486 | 1500. | 0.707 | 2810. | 0.077 |
| 191. | 0.486 | 1501. | 0.708 | 2811. | 0.076 |
| 192. | 0.483 | 1502. | 0.708 | 2812. | 0.077 |
| 193. | 0.48 | 1503. | 0.709 | 2813. | 0.076 |
| 194. | 0.486 | 1504. | 0.708 | 2814. | 0.076 |
| 195. | 0.486 | 1505. | 0.7 | 2815. | 0.076 |
| 196. | 0.484 | 1506. | 0.705 | 2816. | 0.076 |
| 197. | 0.487 | 1507. | 0.707 | 2817. | 0.076 |
| 198. | 0.488 | 1508. | 0.707 | 2818. | 0.076 |
| 199. | 0.487 | 1509. | 0.708 | 2819. | 0.076 |
| 200. | 0.491 | 1510. | 0.7 | 2820. | 0.076 |
| 201. | 0.493 | 1511. | 0.703 | 2821. | 0.075 |
| 202. | 0.495 | 1512. | 0.71 | 2822. | 0.075 |
| 203. | 0.498 | 1513. | 0.705 | 2823. | 0.075 |
| 204. | 0.495 | 1514. | 0.706 | 2824. | 0.075 |
| 205. | 0.498 | 1515. | 0.706 | 2825. | 0.076 |
| 206. | 0.497 | 1516. | 0.705 | 2826. | 0.075 |
| 207. | 0.501 | 1517. | 0.704 | 2827. | 0.075 |
| 208. | 0.502 | 1518. | 0.708 | 2828. | 0.076 |
| 209. | 0.502 | 1519. | 0.705 | 2829. | 0.076 |
| 210. | 0.499 | 1520. | 0.71 | 2830. | 0.075 |
| 211. | 0.505 | 1521. | 0.705 | 2831. | 0.075 |
| 212. | 0.504 | 1522. | 0.699 | 2832. | 0.075 |
| 213. | 0.507 | 1523. | 0.703 | 2833. | 0.075 |
| 214. | 0.504 | 1524. | 0.702 | 2834. | 0.075 |
| 215. | 0.506 | 1525. | 0.704 | 2835. | 0.075 |
| 216. | 0.506 | 1526. | 0.703 | 2836. | 0.075 |
| 217. | 0.508 | 1527. | 0.701 | 2837. | 0.075 |
| 218. | 0.508 | 1528. | 0.704 | 2838. | 0.075 |
| 219. | 0.507 | 1529. | 0.7 | 2839. | 0.075 |
| 220. | 0.51 | 1530. | 0.699 | 2840. | 0.075 |
| 221. | 0.512 | 1531. | 0.701 | 2841. | 0.075 |
| 222. | 0.515 | 1532. | 0.7 | 2842. | 0.075 |
| 223. | 0.508 | 1533. | 0.703 | 2843. | 0.075 |
| 224. | 0.512 | 1534. | 0.701 | 2844. | 0.074 |
| 225. | 0.515 | 1535. | 0.707 | 2845. | 0.075 |
| 226. | 0.514 | 1536. | 0.698 | 2846. | 0.075 |
| 227. | 0.516 | 1537. | 0.705 | 2847. | 0.075 |
| 228. | 0.513 | 1538. | 0.703 | 2848. | 0.074 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 229. | 0.514 | 1539. | 0.709 | 2849. | 0.075 |
| 230. | 0.515 | 1540. | 0.71 | 2850. | 0.075 |
| 231. | 0.517 | 1541. | 0.707 | 2851. | 0.075 |
| 232. | 0.516 | 1542. | 0.705 | 2852. | 0.074 |
| 233. | 0.515 | 1543. | 0.709 | 2853. | 0.074 |
| 234. | 0.517 | 1544. | 0.71 | 2854. | 0.074 |
| 235. | 0.516 | 1545. | 0.71 | 2855. | 0.074 |
| 236. | 0.518 | 1546. | 0.713 | 2856. | 0.074 |
| 237. | 0.52 | 1547. | 0.71 | 2857. | 0.074 |
| 238. | 0.517 | 1548. | 0.706 | 2858. | 0.073 |
| 239. | 0.523 | 1549. | 0.71 | 2859. | 0.074 |
| 240. | 0.523 | 1550. | 0.714 | 2860. | 0.073 |
| 241. | 0.523 | 1551. | 0.71 | 2861. | 0.074 |
| 242. | 0.524 | 1552. | 0.715 | 2862. | 0.074 |
| 243. | 0.519 | 1553. | 0.709 | 2863. | 0.074 |
| 244. | 0.522 | 1554. | 0.714 | 2864. | 0.074 |
| 245. | 0.519 | 1555. | 0.713 | 2865. | 0.074 |
| 246. | 0.521 | 1556. | 0.708 | 2866. | 0.074 |
| 247. | 0.524 | 1557. | 0.715 | 2867. | 0.074 |
| 248. | 0.523 | 1558. | 0.711 | 2868. | 0.074 |
| 249. | 0.518 | 1559. | 0.714 | 2869. | 0.074 |
| 250. | 0.522 | 1560. | 0.715 | 2870. | 0.073 |
| 251. | 0.52 | 1561. | 0.71 | 2871. | 0.073 |
| 252. | 0.523 | 1562. | 0.712 | 2872. | 0.073 |
| 253. | 0.521 | 1563. | 0.711 | 2873. | 0.073 |
| 254. | 0.525 | 1564. | 0.716 | 2874. | 0.073 |
| 255. | 0.522 | 1565. | 0.715 | 2875. | 0.073 |
| 256. | 0.526 | 1566. | 0.717 | 2876. | 0.073 |
| 257. | 0.524 | 1567. | 0.718 | 2877. | 0.073 |
| 258. | 0.527 | 1568. | 0.717 | 2878. | 0.073 |
| 259. | 0.526 | 1569. | 0.712 | 2879. | 0.073 |
| 260. | 0.524 | 1570. | 0.716 | 2880. | 0.073 |
| 261. | 0.527 | 1571. | 0.714 | 2881. | 0.073 |
| 262. | 0.53 | 1572. | 0.713 | 2882. | 0.073 |
| 263. | 0.529 | 1573. | 0.714 | 2883. | 0.073 |
| 264. | 0.525 | 1574. | 0.71 | 2884. | 0.073 |
| 265. | 0.528 | 1575. | 0.718 | 2885. | 0.073 |
| 266. | 0.527 | 1576. | 0.718 | 2886. | 0.073 |
| 267. | 0.525 | 1577. | 0.718 | 2887. | 0.072 |
| 268. | 0.528 | 1578. | 0.712 | 2888. | 0.072 |
| 269. | 0.531 | 1579. | 0.715 | 2889. | 0.072 |
| 270. | 0.525 | 1580. | 0.713 | 2890. | 0.072 |
| 271. | 0.524 | 1581. | 0.718 | 2891. | 0.072 |
| 272. | 0.525 | 1582. | 0.714 | 2892. | 0.072 |
| 273. | 0.529 | 1583. | 0.718 | 2893. | 0.072 |
| 274. | 0.53 | 1584. | 0.716 | 2894. | 0.072 |
| 275. | 0.527 | 1585. | 0.72 | 2895. | 0.072 |
| 276. | 0.528 | 1586. | 0.715 | 2896. | 0.072 |
| 277. | 0.526 | 1587. | 0.712 | 2897. | 0.072 |
| 278. | 0.527 | 1588. | 0.715 | 2898. | 0.072 |
| 279. | 0.535 | 1589. | 0.718 | 2899. | 0.072 |
| 280. | 0.532 | 1590. | 0.715 | 2900. | 0.072 |
| 281. | 0.528 | 1591. | 0.722 | 2901. | 0.072 |
| 282. | 0.527 | 1592. | 0.711 | 2902. | 0.072 |
| 283. | 0.531 | 1593. | 0.718 | 2903. | 0.072 |
| 284. | 0.533 | 1594. | 0.718 | 2904. | 0.072 |
| 285. | 0.532 | 1595. | 0.722 | 2905. | 0.072 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 286. | 0.534 | 1596. | 0.721 | 2906. | 0.072 |
| 287. | 0.533 | 1597. | 0.724 | 2907. | 0.072 |
| 288. | 0.533 | 1598. | 0.72 | 2908. | 0.072 |
| 289. | 0.533 | 1599. | 0.719 | 2909. | 0.071 |
| 290. | 0.534 | 1600. | 0.725 | 2910. | 0.072 |
| 291. | 0.535 | 1601. | 0.722 | 2911. | 0.071 |
| 292. | 0.537 | 1602. | 0.721 | 2912. | 0.071 |
| 293. | 0.533 | 1603. | 0.726 | 2913. | 0.071 |
| 294. | 0.534 | 1604. | 0.725 | 2914. | 0.071 |
| 295. | 0.532 | 1605. | 0.728 | 2915. | 0.071 |
| 296. | 0.53 | 1606. | 0.727 | 2916. | 0.071 |
| 297. | 0.534 | 1607. | 0.727 | 2917. | 0.071 |
| 298. | 0.535 | 1608. | 0.728 | 2918. | 0.071 |
| 299. | 0.535 | 1609. | 0.725 | 2919. | 0.071 |
| 300. | 0.532 | 1610. | 0.727 | 2920. | 0.071 |
| 301. | 0.535 | 1611. | 0.726 | 2921. | 0.071 |
| 302. | 0.537 | 1612. | 0.725 | 2922. | 0.071 |
| 303. | 0.537 | 1613. | 0.728 | 2923. | 0.071 |
| 304. | 0.538 | 1614. | 0.726 | 2924. | 0.071 |
| 305. | 0.534 | 1615. | 0.729 | 2925. | 0.071 |
| 306. | 0.535 | 1616. | 0.727 | 2926. | 0.071 |
| 307. | 0.536 | 1617. | 0.724 | 2927. | 0.071 |
| 308. | 0.537 | 1618. | 0.724 | 2928. | 0.071 |
| 309. | 0.532 | 1619. | 0.729 | 2929. | 0.07 |
| 310. | 0.535 | 1620. | 0.727 | 2930. | 0.07 |
| 311. | 0.535 | 1621. | 0.728 | 2931. | 0.07 |
| 312. | 0.535 | 1622. | 0.727 | 2932. | 0.07 |
| 313. | 0.54 | 1623. | 0.729 | 2933. | 0.07 |
| 314. | 0.536 | 1624. | 0.722 | 2934. | 0.07 |
| 315. | 0.539 | 1625. | 0.726 | 2935. | 0.07 |
| 316. | 0.533 | 1626. | 0.728 | 2936. | 0.07 |
| 317. | 0.533 | 1627. | 0.727 | 2937. | 0.07 |
| 318. | 0.538 | 1628. | 0.728 | 2938. | 0.07 |
| 319. | 0.533 | 1629. | 0.722 | 2939. | 0.07 |
| 320. | 0.534 | 1630. | 0.725 | 2940. | 0.07 |
| 321. | 0.536 | 1631. | 0.726 | 2941. | 0.07 |
| 322. | 0.537 | 1632. | 0.73 | 2942. | 0.069 |
| 323. | 0.535 | 1633. | 0.73 | 2943. | 0.069 |
| 324. | 0.536 | 1634. | 0.726 | 2944. | 0.07 |
| 325. | 0.536 | 1635. | 0.726 | 2945. | 0.069 |
| 326. | 0.534 | 1636. | 0.728 | 2946. | 0.07 |
| 327. | 0.535 | 1637. | 0.731 | 2947. | 0.07 |
| 328. | 0.537 | 1638. | 0.729 | 2948. | 0.07 |
| 329. | 0.537 | 1639. | 0.733 | 2949. | 0.07 |
| 330. | 0.539 | 1640. | 0.73 | 2950. | 0.07 |
| 331. | 0.537 | 1641. | 0.721 | 2951. | 0.07 |
| 332. | 0.534 | 1642. | 0.728 | 2952. | 0.069 |
| 333. | 0.54 | 1643. | 0.731 | 2953. | 0.069 |
| 334. | 0.539 | 1644. | 0.725 | 2954. | 0.069 |
| 335. | 0.539 | 1645. | 0.728 | 2955. | 0.069 |
| 336. | 0.533 | 1646. | 0.729 | 2956. | 0.069 |
| 337. | 0.539 | 1647. | 0.729 | 2957. | 0.069 |
| 338. | 0.54 | 1648. | 0.731 | 2958. | 0.069 |
| 339. | 0.538 | 1649. | 0.725 | 2959. | 0.069 |
| 340. | 0.539 | 1650. | 0.73 | 2960. | 0.069 |
| 341. | 0.539 | 1651. | 0.73 | 2961. | 0.069 |
| 342. | 0.538 | 1652. | 0.728 | 2962. | 0.069 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 343. | 0.541 | 1653. | 0.731 | 2963. | 0.069 |
| 344. | 0.541 | 1654. | 0.725 | 2964. | 0.069 |
| 345. | 0.542 | 1655. | 0.733 | 2965. | 0.069 |
| 346. | 0.539 | 1656. | 0.733 | 2966. | 0.069 |
| 347. | 0.54 | 1657. | 0.727 | 2967. | 0.069 |
| 348. | 0.538 | 1658. | 0.729 | 2968. | 0.069 |
| 349. | 0.541 | 1659. | 0.731 | 2969. | 0.069 |
| 350. | 0.542 | 1660. | 0.73 | 2970. | 0.069 |
| 351. | 0.541 | 1661. | 0.73 | 2971. | 0.069 |
| 352. | 0.541 | 1662. | 0.732 | 2972. | 0.069 |
| 353. | 0.541 | 1663. | 0.735 | 2973. | 0.069 |
| 354. | 0.542 | 1664. | 0.727 | 2974. | 0.069 |
| 355. | 0.539 | 1665. | 0.73 | 2975. | 0.069 |
| 356. | 0.541 | 1666. | 0.729 | 2976. | 0.069 |
| 357. | 0.543 | 1667. | 0.733 | 2977. | 0.069 |
| 358. | 0.545 | 1668. | 0.731 | 2978. | 0.069 |
| 359. | 0.544 | 1669. | 0.731 | 2979. | 0.069 |
| 360. | 0.541 | 1670. | 0.728 | 2980. | 0.069 |
| 361. | 0.54 | 1671. | 0.732 | 2981. | 0.069 |
| 362. | 0.541 | 1672. | 0.729 | 2982. | 0.068 |
| 363. | 0.541 | 1673. | 0.732 | 2983. | 0.068 |
| 364. | 0.544 | 1674. | 0.728 | 2984. | 0.068 |
| 365. | 0.541 | 1675. | 0.735 | 2985. | 0.068 |
| 366. | 0.54 | 1676. | 0.73 | 2986. | 0.068 |
| 367. | 0.53 | 1677. | 0.731 | 2987. | 0.068 |
| 368. | 0.542 | 1678. | 0.728 | 2988. | 0.068 |
| 369. | 0.544 | 1679. | 0.726 | 2989. | 0.068 |
| 370. | 0.542 | 1680. | 0.73 | 2990. | 0.068 |
| 371. | 0.545 | 1681. | 0.729 | 2991. | 0.068 |
| 372. | 0.544 | 1682. | 0.727 | 2992. | 0.068 |
| 373. | 0.538 | 1683. | 0.729 | 2993. | 0.068 |
| 374. | 0.541 | 1684. | 0.728 | 2994. | 0.068 |
| 375. | 0.544 | 1685. | 0.724 | 2995. | 0.068 |
| 376. | 0.543 | 1686. | 0.722 | 2996. | 0.067 |
| 377. | 0.545 | 1687. | 0.722 | 2997. | 0.067 |
| 378. | 0.546 | 1688. | 0.725 | 2998. | 0.067 |
| 379. | 0.544 | 1689. | 0.725 | 2999. | 0.067 |
| 380. | 0.543 | 1690. | 0.727 | 3000. | 0.067 |
| 381. | 0.545 | 1691. | 0.729 | 3001. | 0.067 |
| 382. | 0.546 | 1692. | 0.724 | 3002. | 0.067 |
| 383. | 0.547 | 1693. | 0.727 | 3003. | 0.067 |
| 384. | 0.545 | 1694. | 0.723 | 3004. | 0.067 |
| 385. | 0.547 | 1695. | 0.725 | 3005. | 0.067 |
| 386. | 0.546 | 1696. | 0.728 | 3006. | 0.067 |
| 387. | 0.551 | 1697. | 0.727 | 3007. | 0.067 |
| 388. | 0.552 | 1698. | 0.725 | 3008. | 0.067 |
| 389. | 0.557 | 1699. | 0.722 | 3009. | 0.067 |
| 390. | 0.549 | 1700. | 0.725 | 3010. | 0.067 |
| 391. | 0.555 | 1701. | 0.728 | 3011. | 0.067 |
| 392. | 0.556 | 1702. | 0.724 | 3012. | 0.067 |
| 393. | 0.554 | 1703. | 0.727 | 3013. | 0.066 |
| 394. | 0.556 | 1704. | 0.731 | 3014. | 0.067 |
| 395. | 0.556 | 1705. | 0.723 | 3015. | 0.066 |
| 396. | 0.561 | 1706. | 0.726 | 3016. | 0.066 |
| 397. | 0.559 | 1707. | 0.73 | 3017. | 0.066 |
| 398. | 0.557 | 1708. | 0.727 | 3018. | 0.066 |
| 399. | 0.56 | 1709. | 0.726 | 3019. | 0.066 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 400. | 0.561 | 1710. | 0.723 | 3020. | 0.066 |
| 401. | 0.558 | 1711. | 0.72 | 3021. | 0.066 |
| 402. | 0.561 | 1712. | 0.721 | 3022. | 0.066 |
| 403. | 0.562 | 1713. | 0.726 | 3023. | 0.066 |
| 404. | 0.565 | 1714. | 0.723 | 3024. | 0.066 |
| 405. | 0.564 | 1715. | 0.725 | 3025. | 0.066 |
| 406. | 0.565 | 1716. | 0.725 | 3026. | 0.066 |
| 407. | 0.568 | 1717. | 0.728 | 3027. | 0.066 |
| 408. | 0.564 | 1718. | 0.727 | 3028. | 0.066 |
| 409. | 0.566 | 1719. | 0.722 | 3029. | 0.066 |
| 410. | 0.566 | 1720. | 0.724 | 3030. | 0.066 |
| 411. | 0.568 | 1721. | 0.73 | 3031. | 0.066 |
| 412. | 0.569 | 1722. | 0.725 | 3032. | 0.065 |
| 413. | 0.568 | 1723. | 0.73 | 3033. | 0.065 |
| 414. | 0.567 | 1724. | 0.729 | 3034. | 0.065 |
| 415. | 0.574 | 1725. | 0.73 | 3035. | 0.065 |
| 416. | 0.572 | 1726. | 0.728 | 3036. | 0.065 |
| 417. | 0.568 | 1727. | 0.731 | 3037. | 0.065 |
| 418. | 0.57 | 1728. | 0.726 | 3038. | 0.065 |
| 419. | 0.569 | 1729. | 0.726 | 3039. | 0.065 |
| 420. | 0.572 | 1730. | 0.728 | 3040. | 0.065 |
| 421. | 0.567 | 1731. | 0.731 | 3041. | 0.065 |
| 422. | 0.571 | 1732. | 0.73 | 3042. | 0.065 |
| 423. | 0.569 | 1733. | 0.727 | 3043. | 0.065 |
| 424. | 0.567 | 1734. | 0.72 | 3044. | 0.065 |
| 425. | 0.57 | 1735. | 0.726 | 3045. | 0.065 |
| 426. | 0.567 | 1736. | 0.73 | 3046. | 0.065 |
| 427. | 0.568 | 1737. | 0.728 | 3047. | 0.065 |
| 428. | 0.572 | 1738. | 0.725 | 3048. | 0.065 |
| 429. | 0.57 | 1739. | 0.722 | 3049. | 0.065 |
| 430. | 0.571 | 1740. | 0.721 | 3050. | 0.065 |
| 431. | 0.57 | 1741. | 0.722 | 3051. | 0.065 |
| 432. | 0.571 | 1742. | 0.722 | 3052. | 0.065 |
| 433. | 0.572 | 1743. | 0.724 | 3053. | 0.065 |
| 434. | 0.571 | 1744. | 0.722 | 3054. | 0.065 |
| 435. | 0.57 | 1745. | 0.728 | 3055. | 0.065 |
| 436. | 0.571 | 1746. | 0.724 | 3056. | 0.065 |
| 437. | 0.573 | 1747. | 0.723 | 3057. | 0.065 |
| 438. | 0.573 | 1748. | 0.726 | 3058. | 0.065 |
| 439. | 0.574 | 1749. | 0.723 | 3059. | 0.065 |
| 440. | 0.572 | 1750. | 0.726 | 3060. | 0.065 |
| 441. | 0.575 | 1751. | 0.726 | 3061. | 0.065 |
| 442. | 0.573 | 1752. | 0.722 | 3062. | 0.065 |
| 443. | 0.575 | 1753. | 0.722 | 3063. | 0.065 |
| 444. | 0.577 | 1754. | 0.726 | 3064. | 0.065 |
| 445. | 0.573 | 1755. | 0.72 | 3065. | 0.065 |
| 446. | 0.575 | 1756. | 0.726 | 3066. | 0.065 |
| 447. | 0.575 | 1757. | 0.731 | 3067. | 0.065 |
| 448. | 0.573 | 1758. | 0.737 | 3068. | 0.065 |
| 449. | 0.576 | 1759. | 0.733 | 3069. | 0.065 |
| 450. | 0.574 | 1760. | 0.732 | 3070. | 0.065 |
| 451. | 0.577 | 1761. | 0.739 | 3071. | 0.065 |
| 452. | 0.574 | 1762. | 0.737 | 3072. | 0.065 |
| 453. | 0.573 | 1763. | 0.736 | 3073. | 0.065 |
| 454. | 0.576 | 1764. | 0.737 | 3074. | 0.065 |
| 455. | 0.576 | 1765. | 0.74 | 3075. | 0.065 |
| 456. | 0.577 | 1766. | 0.738 | 3076. | 0.064 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 457. | 0.578 | 1767. | 0.738 | 3077. | 0.065 |
| 458. | 0.578 | 1768. | 0.74 | 3078. | 0.064 |
| 459. | 0.578 | 1769. | 0.738 | 3079. | 0.065 |
| 460. | 0.578 | 1770. | 0.744 | 3080. | 0.064 |
| 461. | 0.578 | 1771. | 0.745 | 3081. | 0.065 |
| 462. | 0.58 | 1772. | 0.745 | 3082. | 0.064 |
| 463. | 0.588 | 1773. | 0.743 | 3083. | 0.064 |
| 464. | 0.577 | 1774. | 0.745 | 3084. | 0.064 |
| 465. | 0.582 | 1775. | 0.747 | 3085. | 0.064 |
| 466. | 0.586 | 1776. | 0.743 | 3086. | 0.064 |
| 467. | 0.58 | 1777. | 0.746 | 3087. | 0.064 |
| 468. | 0.585 | 1778. | 0.746 | 3088. | 0.064 |
| 469. | 0.587 | 1779. | 0.746 | 3089. | 0.064 |
| 470. | 0.581 | 1780. | 0.747 | 3090. | 0.064 |
| 471. | 0.578 | 1781. | 0.746 | 3091. | 0.064 |
| 472. | 0.581 | 1782. | 0.752 | 3092. | 0.063 |
| 473. | 0.58 | 1783. | 0.754 | 3093. | 0.064 |
| 474. | 0.579 | 1784. | 0.752 | 3094. | 0.063 |
| 475. | 0.585 | 1785. | 0.748 | 3095. | 0.063 |
| 476. | 0.58 | 1786. | 0.748 | 3096. | 0.063 |
| 477. | 0.58 | 1787. | 0.756 | 3097. | 0.064 |
| 478. | 0.582 | 1788. | 0.746 | 3098. | 0.063 |
| 479. | 0.586 | 1789. | 0.75 | 3099. | 0.064 |
| 480. | 0.584 | 1790. | 0.75 | 3100. | 0.063 |
| 481. | 0.586 | 1791. | 0.748 | 3101. | 0.063 |
| 482. | 0.584 | 1792. | 0.747 | 3102. | 0.063 |
| 483. | 0.585 | 1793. | 0.751 | 3103. | 0.063 |
| 484. | 0.586 | 1794. | 0.752 | 3104. | 0.063 |
| 485. | 0.587 | 1795. | 0.753 | 3105. | 0.063 |
| 486. | 0.585 | 1796. | 0.752 | 3106. | 0.063 |
| 487. | 0.587 | 1797. | 0.748 | 3107. | 0.063 |
| 488. | 0.589 | 1798. | 0.75 | 3108. | 0.063 |
| 489. | 0.587 | 1799. | 0.749 | 3109. | 0.063 |
| 490. | 0.591 | 1800. | 0.751 | 3110. | 0.063 |
| 491. | 0.588 | 1801. | 0.747 | 3111. | 0.063 |
| 492. | 0.59 | 1802. | 0.754 | 3112. | 0.062 |
| 493. | 0.588 | 1803. | 0.75 | 3113. | 0.062 |
| 494. | 0.593 | 1804. | 0.748 | 3114. | 0.062 |
| 495. | 0.592 | 1805. | 0.752 | 3115. | 0.062 |
| 496. | 0.591 | 1806. | 0.751 | 3116. | 0.062 |
| 497. | 0.592 | 1807. | 0.751 | 3117. | 0.063 |
| 498. | 0.593 | 1808. | 0.745 | 3118. | 0.062 |
| 499. | 0.599 | 1809. | 0.754 | 3119. | 0.062 |
| 500. | 0.591 | 1810. | 0.756 | 3120. | 0.062 |
| 501. | 0.594 | 1811. | 0.749 | 3121. | 0.062 |
| 502. | 0.59 | 1812. | 0.757 | 3122. | 0.062 |
| 503. | 0.593 | 1813. | 0.751 | 3123. | 0.062 |
| 504. | 0.594 | 1814. | 0.752 | 3124. | 0.062 |
| 505. | 0.591 | 1815. | 0.758 | 3125. | 0.062 |
| 506. | 0.595 | 1816. | 0.751 | 3126. | 0.062 |
| 507. | 0.591 | 1817. | 0.754 | 3127. | 0.062 |
| 508. | 0.595 | 1818. | 0.756 | 3128. | 0.062 |
| 509. | 0.593 | 1819. | 0.75 | 3129. | 0.062 |
| 510. | 0.592 | 1820. | 0.754 | 3130. | 0.062 |
| 511. | 0.592 | 1821. | 0.75 | 3131. | 0.062 |
| 512. | 0.594 | 1822. | 0.751 | 3132. | 0.062 |
| 513. | 0.594 | 1823. | 0.754 | 3133. | 0.062 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 514. | 0.592 | 1824. | 0.752 | 3134. | 0.062 |
| 515. | 0.593 | 1825. | 0.752 | 3135. | 0.062 |
| 516. | 0.594 | 1826. | 0.751 | 3136. | 0.062 |
| 517. | 0.597 | 1827. | 0.751 | 3137. | 0.062 |
| 518. | 0.592 | 1828. | 0.748 | 3138. | 0.062 |
| 519. | 0.593 | 1829. | 0.752 | 3139. | 0.062 |
| 520. | 0.595 | 1830. | 0.753 | 3140. | 0.062 |
| 521. | 0.597 | 1831. | 0.75 | 3141. | 0.062 |
| 522. | 0.597 | 1832. | 0.748 | 3142. | 0.062 |
| 523. | 0.594 | 1833. | 0.749 | 3143. | 0.062 |
| 524. | 0.592 | 1834. | 0.753 | 3144. | 0.062 |
| 525. | 0.595 | 1835. | 0.752 | 3145. | 0.062 |
| 526. | 0.593 | 1836. | 0.748 | 3146. | 0.062 |
| 527. | 0.592 | 1837. | 0.746 | 3147. | 0.062 |
| 528. | 0.597 | 1838. | 0.752 | 3148. | 0.062 |
| 529. | 0.595 | 1839. | 0.749 | 3149. | 0.062 |
| 530. | 0.593 | 1840. | 0.751 | 3150. | 0.061 |
| 531. | 0.592 | 1841. | 0.747 | 3151. | 0.061 |
| 532. | 0.592 | 1842. | 0.751 | 3152. | 0.062 |
| 533. | 0.593 | 1843. | 0.751 | 3153. | 0.061 |
| 534. | 0.592 | 1844. | 0.747 | 3154. | 0.062 |
| 535. | 0.597 | 1845. | 0.747 | 3155. | 0.061 |
| 536. | 0.596 | 1846. | 0.747 | 3156. | 0.061 |
| 537. | 0.591 | 1847. | 0.749 | 3157. | 0.061 |
| 538. | 0.596 | 1848. | 0.746 | 3158. | 0.061 |
| 539. | 0.593 | 1849. | 0.744 | 3159. | 0.061 |
| 540. | 0.596 | 1850. | 0.748 | 3160. | 0.062 |
| 541. | 0.597 | 1851. | 0.747 | 3161. | 0.061 |
| 542. | 0.601 | 1852. | 0.748 | 3162. | 0.061 |
| 543. | 0.599 | 1853. | 0.748 | 3163. | 0.061 |
| 544. | 0.596 | 1854. | 0.747 | 3164. | 0.061 |
| 545. | 0.598 | 1855. | 0.746 | 3165. | 0.061 |
| 546. | 0.598 | 1856. | 0.747 | 3166. | 0.061 |
| 547. | 0.596 | 1857. | 0.745 | 3167. | 0.061 |
| 548. | 0.597 | 1858. | 0.747 | 3168. | 0.061 |
| 549. | 0.596 | 1859. | 0.745 | 3169. | 0.061 |
| 550. | 0.601 | 1860. | 0.748 | 3170. | 0.061 |
| 551. | 0.598 | 1861. | 0.749 | 3171. | 0.06 |
| 552. | 0.599 | 1862. | 0.746 | 3172. | 0.061 |
| 553. | 0.599 | 1863. | 0.745 | 3173. | 0.06 |
| 554. | 0.597 | 1864. | 0.747 | 3174. | 0.06 |
| 555. | 0.599 | 1865. | 0.749 | 3175. | 0.06 |
| 556. | 0.599 | 1866. | 0.742 | 3176. | 0.06 |
| 557. | 0.597 | 1867. | 0.749 | 3177. | 0.06 |
| 558. | 0.602 | 1868. | 0.75 | 3178. | 0.06 |
| 559. | 0.6 | 1869. | 0.745 | 3179. | 0.06 |
| 560. | 0.602 | 1870. | 0.748 | 3180. | 0.06 |
| 561. | 0.597 | 1871. | 0.753 | 3181. | 0.06 |
| 562. | 0.599 | 1872. | 0.748 | 3182. | 0.06 |
| 563. | 0.601 | 1873. | 0.749 | 3183. | 0.06 |
| 564. | 0.598 | 1874. | 0.745 | 3184. | 0.06 |
| 565. | 0.602 | 1875. | 0.75 | 3185. | 0.06 |
| 566. | 0.599 | 1876. | 0.75 | 3186. | 0.06 |
| 567. | 0.596 | 1877. | 0.748 | 3187. | 0.06 |
| 568. | 0.602 | 1878. | 0.747 | 3188. | 0.06 |
| 569. | 0.595 | 1879. | 0.745 | 3189. | 0.06 |
| 570. | 0.605 | 1880. | 0.749 | 3190. | 0.06 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 571. | 0.606 | 1881. | 0.751 | 3191. | 0.06 |
| 572. | 0.607 | 1882. | 0.747 | 3192. | 0.06 |
| 573. | 0.602 | 1883. | 0.747 | 3193. | 0.06 |
| 574. | 0.609 | 1884. | 0.748 | 3194. | 0.06 |
| 575. | 0.61 | 1885. | 0.748 | 3195. | 0.06 |
| 576. | 0.611 | 1886. | 0.747 | 3196. | 0.06 |
| 577. | 0.609 | 1887. | 0.752 | 3197. | 0.059 |
| 578. | 0.613 | 1888. | 0.753 | 3198. | 0.06 |
| 579. | 0.609 | 1889. | 0.758 | 3199. | 0.06 |
| 580. | 0.617 | 1890. | 0.751 | 3200. | 0.06 |
| 581. | 0.612 | 1891. | 0.75 | 3201. | 0.06 |
| 582. | 0.615 | 1892. | 0.748 | 3202. | 0.06 |
| 583. | 0.612 | 1893. | 0.749 | 3203. | 0.06 |
| 584. | 0.616 | 1894. | 0.751 | 3204. | 0.059 |
| 585. | 0.617 | 1895. | 0.749 | 3205. | 0.06 |
| 586. | 0.616 | 1896. | 0.753 | 3206. | 0.06 |
| 587. | 0.616 | 1897. | 0.756 | 3207. | 0.059 |
| 588. | 0.621 | 1898. | 0.757 | 3208. | 0.059 |
| 589. | 0.622 | 1899. | 0.756 | 3209. | 0.059 |
| 590. | 0.617 | 1900. | 0.755 | 3210. | 0.059 |
| 591. | 0.619 | 1901. | 0.752 | 3211. | 0.059 |
| 592. | 0.62 | 1902. | 0.745 | 3212. | 0.059 |
| 593. | 0.619 | 1903. | 0.748 | 3213. | 0.06 |
| 594. | 0.623 | 1904. | 0.753 | 3214. | 0.059 |
| 595. | 0.622 | 1905. | 0.746 | 3215. | 0.059 |
| 596. | 0.619 | 1906. | 0.751 | 3216. | 0.059 |
| 597. | 0.622 | 1907. | 0.752 | 3217. | 0.059 |
| 598. | 0.619 | 1908. | 0.755 | 3218. | 0.059 |
| 599. | 0.623 | 1909. | 0.746 | 3219. | 0.059 |
| 600. | 0.62 | 1910. | 0.748 | 3220. | 0.059 |
| 601. | 0.619 | 1911. | 0.747 | 3221. | 0.059 |
| 602. | 0.619 | 1912. | 0.754 | 3222. | 0.059 |
| 603. | 0.625 | 1913. | 0.751 | 3223. | 0.059 |
| 604. | 0.624 | 1914. | 0.752 | 3224. | 0.059 |
| 605. | 0.622 | 1915. | 0.749 | 3225. | 0.059 |
| 606. | 0.624 | 1916. | 0.749 | 3226. | 0.059 |
| 607. | 0.626 | 1917. | 0.752 | 3227. | 0.059 |
| 608. | 0.626 | 1918. | 0.753 | 3228. | 0.059 |
| 609. | 0.623 | 1919. | 0.751 | 3229. | 0.058 |
| 610. | 0.627 | 1920. | 0.746 | 3230. | 0.059 |
| 611. | 0.624 | 1921. | 0.752 | 3231. | 0.058 |
| 612. | 0.627 | 1922. | 0.75 | 3232. | 0.059 |
| 613. | 0.625 | 1923. | 0.751 | 3233. | 0.059 |
| 614. | 0.628 | 1924. | 0.751 | 3234. | 0.059 |
| 615. | 0.627 | 1925. | 0.755 | 3235. | 0.059 |
| 616. | 0.624 | 1926. | 0.749 | 3236. | 0.059 |
| 617. | 0.63 | 1927. | 0.745 | 3237. | 0.059 |
| 618. | 0.63 | 1928. | 0.753 | 3238. | 0.059 |
| 619. | 0.627 | 1929. | 0.75 | 3239. | 0.059 |
| 620. | 0.623 | 1930. | 0.748 | 3240. | 0.059 |
| 621. | 0.626 | 1931. | 0.747 | 3241. | 0.058 |
| 622. | 0.629 | 1932. | 0.742 | 3242. | 0.058 |
| 623. | 0.63 | 1933. | 0.739 | 3243. | 0.058 |
| 624. | 0.63 | 1934. | 0.736 | 3244. | 0.058 |
| 625. | 0.631 | 1935. | 0.733 | 3245. | 0.058 |
| 626. | 0.628 | 1936. | 0.732 | 3246. | 0.058 |
| 627. | 0.631 | 1937. | 0.731 | 3247. | 0.058 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 628. | 0.63 | 1938. | 0.734 | 3248. | 0.058 |
| 629. | 0.625 | 1939. | 0.731 | 3249. | 0.058 |
| 630. | 0.624 | 1940. | 0.73 | 3250. | 0.058 |
| 631. | 0.629 | 1941. | 0.727 | 3251. | 0.058 |
| 632. | 0.627 | 1942. | 0.729 | 3252. | 0.058 |
| 633. | 0.627 | 1943. | 0.726 | 3253. | 0.058 |
| 634. | 0.626 | 1944. | 0.723 | 3254. | 0.058 |
| 635. | 0.625 | 1945. | 0.723 | 3255. | 0.058 |
| 636. | 0.629 | 1946. | 0.721 | 3256. | 0.058 |
| 637. | 0.63 | 1947. | 0.724 | 3257. | 0.058 |
| 638. | 0.629 | 1948. | 0.724 | 3258. | 0.058 |
| 639. | 0.626 | 1949. | 0.723 | 3259. | 0.057 |
| 640. | 0.628 | 1950. | 0.726 | 3260. | 0.058 |
| 641. | 0.629 | 1951. | 0.723 | 3261. | 0.057 |
| 642. | 0.632 | 1952. | 0.719 | 3262. | 0.058 |
| 643. | 0.624 | 1953. | 0.722 | 3263. | 0.058 |
| 644. | 0.626 | 1954. | 0.724 | 3264. | 0.057 |
| 645. | 0.628 | 1955. | 0.716 | 3265. | 0.058 |
| 646. | 0.627 | 1956. | 0.716 | 3266. | 0.057 |
| 647. | 0.625 | 1957. | 0.717 | 3267. | 0.057 |
| 648. | 0.631 | 1958. | 0.716 | 3268. | 0.057 |
| 649. | 0.629 | 1959. | 0.714 | 3269. | 0.057 |
| 650. | 0.63 | 1960. | 0.716 | 3270. | 0.057 |
| 651. | 0.63 | 1961. | 0.717 | 3271. | 0.057 |
| 652. | 0.63 | 1962. | 0.719 | 3272. | 0.057 |
| 653. | 0.629 | 1963. | 0.718 | 3273. | 0.057 |
| 654. | 0.629 | 1964. | 0.719 | 3274. | 0.057 |
| 655. | 0.625 | 1965. | 0.722 | 3275. | 0.057 |
| 656. | 0.625 | 1966. | 0.726 | 3276. | 0.058 |
| 657. | 0.628 | 1967. | 0.718 | 3277. | 0.057 |
| 658. | 0.626 | 1968. | 0.724 | 3278. | 0.057 |
| 659. | 0.63 | 1969. | 0.722 | 3279. | 0.057 |
| 660. | 0.632 | 1970. | 0.716 | 3280. | 0.057 |
| 661. | 0.631 | 1971. | 0.724 | 3281. | 0.057 |
| 662. | 0.627 | 1972. | 0.727 | 3282. | 0.057 |
| 663. | 0.627 | 1973. | 0.722 | 3283. | 0.057 |
| 664. | 0.628 | 1974. | 0.721 | 3284. | 0.057 |
| 665. | 0.628 | 1975. | 0.719 | 3285. | 0.057 |
| 666. | 0.628 | 1976. | 0.722 | 3286. | 0.057 |
| 667. | 0.636 | 1977. | 0.725 | 3287. | 0.057 |
| 668. | 0.63 | 1978. | 0.726 | 3288. | 0.057 |
| 669. | 0.627 | 1979. | 0.727 | 3289. | 0.057 |
| 670. | 0.633 | 1980. | 0.724 | 3290. | 0.057 |
| 671. | 0.632 | 1981. | 0.73 | 3291. | 0.057 |
| 672. | 0.631 | 1982. | 0.722 | 3292. | 0.056 |
| 673. | 0.631 | 1983. | 0.727 | 3293. | 0.056 |
| 674. | 0.633 | 1984. | 0.724 | 3294. | 0.056 |
| 675. | 0.632 | 1985. | 0.724 | 3295. | 0.056 |
| 676. | 0.635 | 1986. | 0.727 | 3296. | 0.057 |
| 677. | 0.633 | 1987. | 0.723 | 3297. | 0.056 |
| 678. | 0.637 | 1988. | 0.723 | 3298. | 0.056 |
| 679. | 0.631 | 1989. | 0.725 | 3299. | 0.056 |
| 680. | 0.632 | 1990. | 0.728 | 3300. | 0.056 |
| 681. | 0.633 | 1991. | 0.726 | 3301. | 0.056 |
| 682. | 0.632 | 1992. | 0.727 | 3302. | 0.056 |
| 683. | 0.636 | 1993. | 0.735 | 3303. | 0.056 |
| 684. | 0.633 | 1994. | 0.724 | 3304. | 0.056 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 685. | 0.637 | 1995. | 0.725 | 3305. | 0.056 |
| 686. | 0.632 | 1996. | 0.727 | 3306. | 0.056 |
| 687. | 0.638 | 1997. | 0.725 | 3307. | 0.056 |
| 688. | 0.634 | 1998. | 0.738 | 3308. | 0.056 |
| 689. | 0.633 | 1999. | 0.716 | 3309. | 0.056 |
| 690. | 0.634 | 2000. | 0.564 | 3310. | 0.056 |
| 691. | 0.638 | 2001. | 0.582 | 3311. | 0.056 |
| 692. | 0.634 | 2002. | 0.639 | 3312. | 0.056 |
| 693. | 0.636 | 2003. | 0.673 | 3313. | 0.055 |
| 694. | 0.637 | 2004. | 0.704 | 3314. | 0.055 |
| 695. | 0.635 | 2005. | 0.72 | 3315. | 0.055 |
| 696. | 0.638 | 2006. | 0.746 | 3316. | 0.056 |
| 697. | 0.638 | 2007. | 0.776 | 3317. | 0.056 |
| 698. | 0.638 | 2008. | 0.79 | 3318. | 0.056 |
| 699. | 0.634 | 2009. | 0.815 | 3319. | 0.056 |
| 700. | 0.636 | 2010. | 0.835 | 3320. | 0.056 |
| 701. | 0.637 | 2011. | 0.853 | 3321. | 0.056 |
| 702. | 0.635 | 2012. | 0.877 | 3322. | 0.056 |
| 703. | 0.639 | 2013. | 0.902 | 3323. | 0.056 |
| 704. | 0.637 | 2014. | 0.927 | 3324. | 0.056 |
| 705. | 0.638 | 2015. | 0.959 | 3325. | 0.056 |
| 706. | 0.635 | 2016. | 0.986 | 3326. | 0.056 |
| 707. | 0.635 | 2017. | 1.02 | 3327. | 0.055 |
| 708. | 0.637 | 2018. | 1.036 | 3328. | 0.055 |
| 709. | 0.637 | 2019. | 1. | 3329. | 0.056 |
| 710. | 0.631 | 2020. | 0.99 | 3330. | 0.055 |
| 711. | 0.637 | 2021. | 1.005 | 3331. | 0.055 |
| 712. | 0.635 | 2022. | 1.027 | 3332. | 0.056 |
| 713. | 0.636 | 2023. | 1.03 | 3333. | 0.055 |
| 714. | 0.638 | 2024. | 0.992 | 3334. | 0.055 |
| 715. | 0.634 | 2025. | 0.975 | 3335. | 0.055 |
| 716. | 0.638 | 2026. | 0.984 | 3336. | 0.055 |
| 717. | 0.634 | 2027. | 1.006 | 3337. | 0.056 |
| 718. | 0.638 | 2028. | 1.035 | 3338. | 0.055 |
| 719. | 0.641 | 2029. | 1.008 | 3339. | 0.055 |
| 720. | 0.635 | 2030. | 0.962 | 3340. | 0.055 |
| 721. | 0.636 | 2031. | 0.95 | 3341. | 0.055 |
| 722. | 0.638 | 2032. | 0.957 | 3342. | 0.055 |
| 723. | 0.636 | 2033. | 0.984 | 3343. | 0.055 |
| 724. | 0.64 | 2034. | 1.013 | 3344. | 0.055 |
| 725. | 0.641 | 2035. | 1.036 | 3345. | 0.055 |
| 726. | 0.639 | 2036. | 0.998 | 3346. | 0.055 |
| 727. | 0.636 | 2037. | 0.976 | 3347. | 0.055 |
| 728. | 0.638 | 2038. | 0.97 | 3348. | 0.055 |
| 729. | 0.637 | 2039. | 0.991 | 3349. | 0.055 |
| 730. | 0.641 | 2040. | 1.016 | 3350. | 0.054 |
| 731. | 0.635 | 2041. | 1.035 | 3351. | 0.054 |
| 732. | 0.639 | 2042. | 0.994 | 3352. | 0.054 |
| 733. | 0.636 | 2043. | 0.968 | 3353. | 0.054 |
| 734. | 0.638 | 2044. | 0.972 | 3354. | 0.054 |
| 735. | 0.638 | 2045. | 0.991 | 3355. | 0.054 |
| 736. | 0.639 | 2046. | 1.02 | 3356. | 0.055 |
| 737. | 0.638 | 2047. | 1.034 | 3357. | 0.055 |
| 738. | 0.636 | 2048. | 0.964 | 3358. | 0.055 |
| 739. | 0.641 | 2049. | 0.903 | 3359. | 0.055 |
| 740. | 0.637 | 2050. | 0.869 | 3360. | 0.055 |
| 741. | 0.636 | 2051. | 0.867 | 3361. | 0.054 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 742. | 0.64 | 2052. | 0.878 | 3362. | 0.054 |
| 743. | 0.64 | 2053. | 0.905 | 3363. | 0.055 |
| 744. | 0.64 | 2054. | 0.938 | 3364. | 0.054 |
| 745. | 0.64 | 2055. | 0.974 | 3365. | 0.054 |
| 746. | 0.638 | 2056. | 1.005 | 3366. | 0.054 |
| 747. | 0.637 | 2057. | 1.038 | 3367. | 0.054 |
| 748. | 0.642 | 2058. | 1.007 | 3368. | 0.054 |
| 749. | 0.64 | 2059. | 0.964 | 3369. | 0.054 |
| 750. | 0.638 | 2060. | 0.951 | 3370. | 0.054 |
| 751. | 0.638 | 2061. | 0.965 | 3371. | 0.054 |
| 752. | 0.639 | 2062. | 0.987 | 3372. | 0.054 |
| 753. | 0.638 | 2063. | 1.018 | 3373. | 0.054 |
| 754. | 0.639 | 2064. | 1.036 | 3374. | 0.054 |
| 755. | 0.64 | 2065. | 0.992 | 3375. | 0.054 |
| 756. | 0.637 | 2066. | 0.969 | 3376. | 0.054 |
| 757. | 0.637 | 2067. | 0.975 | 3377. | 0.054 |
| 758. | 0.641 | 2068. | 0.993 | 3378. | 0.054 |
| 759. | 0.637 | 2069. | 1.02 | 3379. | 0.054 |
| 760. | 0.636 | 2070. | 1.034 | 3380. | 0.054 |
| 761. | 0.64 | 2071. | 0.981 | 3381. | 0.054 |
| 762. | 0.635 | 2072. | 0.939 | 3382. | 0.054 |
| 763. | 0.639 | 2073. | 0.941 | 3383. | 0.054 |
| 764. | 0.641 | 2074. | 0.951 | 3384. | 0.054 |
| 765. | 0.633 | 2075. | 0.974 | 3385. | 0.054 |
| 766. | 0.634 | 2076. | 1.007 | 3386. | 0.054 |
| 767. | 0.639 | 2077. | 1.038 | 3387. | 0.054 |
| 768. | 0.639 | 2078. | 0.987 | 3388. | 0.054 |
| 769. | 0.635 | 2079. | 0.896 | 3389. | 0.054 |
| 770. | 0.632 | 2080. | 0.857 | 3390. | 0.054 |
| 771. | 0.631 | 2081. | 0.838 | 3391. | 0.053 |
| 772. | 0.635 | 2082. | 0.847 | 3392. | 0.053 |
| 773. | 0.634 | 2083. | 0.86 | 3393. | 0.053 |
| 774. | 0.631 | 2084. | 0.886 | 3394. | 0.053 |
| 775. | 0.636 | 2085. | 0.917 | 3395. | 0.053 |
| 776. | 0.631 | 2086. | 0.949 | 3396. | 0.053 |
| 777. | 0.636 | 2087. | 0.985 | 3397. | 0.053 |
| 778. | 0.64 | 2088. | 1.019 | 3398. | 0.053 |
| 779. | 0.635 | 2089. | 1.035 | 3399. | 0.053 |
| 780. | 0.64 | 2090. | 0.976 | 3400. | 0.053 |
| 781. | 0.638 | 2091. | 0.937 | 3401. | 0.053 |
| 782. | 0.64 | 2092. | 0.927 | 3402. | 0.053 |
| 783. | 0.64 | 2093. | 0.934 | 3403. | 0.053 |
| 784. | 0.637 | 2094. | 0.961 | 3404. | 0.053 |
| 785. | 0.642 | 2095. | 0.994 | 3405. | 0.053 |
| 786. | 0.644 | 2096. | 1.026 | 3406. | 0.053 |
| 787. | 0.643 | 2097. | 1.028 | 3407. | 0.053 |
| 788. | 0.646 | 2098. | 0.967 | 3408. | 0.053 |
| 789. | 0.647 | 2099. | 0.932 | 3409. | 0.053 |
| 790. | 0.644 | 2100. | 0.931 | 3410. | 0.053 |
| 791. | 0.646 | 2101. | 0.945 | 3411. | 0.054 |
| 792. | 0.649 | 2102. | 0.974 | 3412. | 0.055 |
| 793. | 0.652 | 2103. | 1.008 | 3413. | 0.053 |
| 794. | 0.648 | 2104. | 1.034 | 3414. | 0.053 |
| 795. | 0.647 | 2105. | 1.027 | 3415. | 0.053 |
| 796. | 0.65 | 2106. | 1.011 | 3416. | 0.053 |
| 797. | 0.654 | 2107. | 1.022 | 3417. | 0.053 |
| 798. | 0.652 | 2108. | 1.037 | 3418. | 0.053 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 799. | 0.647 | 2109. | 0.989 | 3419. | 0.053 |
| 800. | 0.653 | 2110. | 0.931 | 3420. | 0.053 |
| 801. | 0.649 | 2111. | 0.921 | 3421. | 0.053 |
| 802. | 0.649 | 2112. | 0.919 | 3422. | 0.053 |
| 803. | 0.648 | 2113. | 0.952 | 3423. | 0.053 |
| 804. | 0.64 | 2114. | 0.982 | 3424. | 0.053 |
| 805. | 0.643 | 2115. | 0.804 | 3425. | 0.053 |
| 806. | 0.647 | 2116. | 0.639 | 3426. | 0.053 |
| 807. | 0.642 | 2117. | 0.52 | 3427. | 0.052 |
| 808. | 0.641 | 2118. | 0.463 | 3428. | 0.053 |
| 809. | 0.644 | 2119. | 0.394 | 3429. | 0.053 |
| 810. | 0.64 | 2120. | 0.338 | 3430. | 0.053 |
| 811. | 0.639 | 2121. | 0.287 | 3431. | 0.053 |
| 812. | 0.643 | 2122. | 0.24 | 3432. | 0.052 |
| 813. | 0.641 | 2123. | 0.188 | 3433. | 0.053 |
| 814. | 0.642 | 2124. | 0.143 | 3434. | 0.052 |
| 815. | 0.644 | 2125. | 0.115 | 3435. | 0.052 |
| 816. | 0.639 | 2126. | 0.089 | 3436. | 0.052 |
| 817. | 0.639 | 2127. | 0.074 | 3437. | 0.052 |
| 818. | 0.644 | 2128. | 0.065 | 3438. | 0.052 |
| 819. | 0.64 | 2129. | 0.063 | 3439. | 0.052 |
| 820. | 0.642 | 2130. | 0.065 | 3440. | 0.052 |
| 821. | 0.641 | 2131. | 0.073 | 3441. | 0.052 |
| 822. | 0.644 | 2132. | 0.086 | 3442. | 0.052 |
| 823. | 0.643 | 2133. | 0.099 | 3443. | 0.052 |
| 824. | 0.643 | 2134. | 0.111 | 3444. | 0.052 |
| 825. | 0.641 | 2135. | 0.121 | 3445. | 0.052 |
| 826. | 0.646 | 2136. | 0.129 | 3446. | 0.052 |
| 827. | 0.643 | 2137. | 0.136 | 3447. | 0.052 |
| 828. | 0.638 | 2138. | 0.143 | 3448. | 0.052 |
| 829. | 0.645 | 2139. | 0.149 | 3449. | 0.052 |
| 830. | 0.646 | 2140. | 0.154 | 3450. | 0.052 |
| 831. | 0.647 | 2141. | 0.158 | 3451. | 0.052 |
| 832. | 0.643 | 2142. | 0.163 | 3452. | 0.052 |
| 833. | 0.645 | 2143. | 0.166 | 3453. | 0.052 |
| 834. | 0.646 | 2144. | 0.169 | 3454. | 0.051 |
| 835. | 0.648 | 2145. | 0.172 | 3455. | 0.052 |
| 836. | 0.649 | 2146. | 0.175 | 3456. | 0.052 |
| 837. | 0.644 | 2147. | 0.177 | 3457. | 0.052 |
| 838. | 0.64 | 2148. | 0.179 | 3458. | 0.052 |
| 839. | 0.642 | 2149. | 0.181 | 3459. | 0.052 |
| 840. | 0.641 | 2150. | 0.182 | 3460. | 0.052 |
| 841. | 0.645 | 2151. | 0.183 | 3461. | 0.052 |
| 842. | 0.645 | 2152. | 0.184 | 3462. | 0.052 |
| 843. | 0.644 | 2153. | 0.185 | 3463. | 0.052 |
| 844. | 0.636 | 2154. | 0.186 | 3464. | 0.052 |
| 845. | 0.641 | 2155. | 0.187 | 3465. | 0.051 |
| 846. | 0.646 | 2156. | 0.187 | 3466. | 0.051 |
| 847. | 0.64 | 2157. | 0.188 | 3467. | 0.051 |
| 848. | 0.643 | 2158. | 0.187 | 3468. | 0.052 |
| 849. | 0.645 | 2159. | 0.188 | 3469. | 0.051 |
| 850. | 0.647 | 2160. | 0.187 | 3470. | 0.051 |
| 851. | 0.648 | 2161. | 0.187 | 3471. | 0.051 |
| 852. | 0.649 | 2162. | 0.187 | 3472. | 0.051 |
| 853. | 0.646 | 2163. | 0.187 | 3473. | 0.051 |
| 854. | 0.642 | 2164. | 0.187 | 3474. | 0.051 |
| 855. | 0.642 | 2165. | 0.187 | 3475. | 0.051 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 856. | 0.642 | 2166. | 0.186 | 3476. | 0.051 |
| 857. | 0.641 | 2167. | 0.186 | 3477. | 0.051 |
| 858. | 0.644 | 2168. | 0.186 | 3478. | 0.051 |
| 859. | 0.648 | 2169. | 0.185 | 3479. | 0.051 |
| 860. | 0.648 | 2170. | 0.185 | 3480. | 0.051 |
| 861. | 0.64 | 2171. | 0.184 | 3481. | 0.051 |
| 862. | 0.647 | 2172. | 0.184 | 3482. | 0.051 |
| 863. | 0.645 | 2173. | 0.183 | 3483. | 0.051 |
| 864. | 0.649 | 2174. | 0.183 | 3484. | 0.051 |
| 865. | 0.647 | 2175. | 0.183 | 3485. | 0.051 |
| 866. | 0.643 | 2176. | 0.182 | 3486. | 0.051 |
| 867. | 0.651 | 2177. | 0.181 | 3487. | 0.051 |
| 868. | 0.646 | 2178. | 0.18 | 3488. | 0.051 |
| 869. | 0.643 | 2179. | 0.18 | 3489. | 0.051 |
| 870. | 0.65 | 2180. | 0.18 | 3490. | 0.051 |
| 871. | 0.648 | 2181. | 0.179 | 3491. | 0.051 |
| 872. | 0.642 | 2182. | 0.178 | 3492. | 0.051 |
| 873. | 0.643 | 2183. | 0.178 | 3493. | 0.051 |
| 874. | 0.647 | 2184. | 0.178 | 3494. | 0.051 |
| 875. | 0.642 | 2185. | 0.177 | 3495. | 0.051 |
| 876. | 0.645 | 2186. | 0.177 | 3496. | 0.051 |
| 877. | 0.644 | 2187. | 0.177 | 3497. | 0.051 |
| 878. | 0.646 | 2188. | 0.176 | 3498. | 0.051 |
| 879. | 0.639 | 2189. | 0.175 | 3499. | 0.051 |
| 880. | 0.643 | 2190. | 0.175 | 3500. | 0.051 |
| 881. | 0.644 | 2191. | 0.174 | 3501. | 0.051 |
| 882. | 0.643 | 2192. | 0.174 | 3502. | 0.051 |
| 883. | 0.638 | 2193. | 0.173 | 3503. | 0.05 |
| 884. | 0.644 | 2194. | 0.173 | 3504. | 0.05 |
| 885. | 0.642 | 2195. | 0.172 | 3505. | 0.05 |
| 886. | 0.641 | 2196. | 0.172 | 3506. | 0.05 |
| 887. | 0.647 | 2197. | 0.172 | 3507. | 0.05 |
| 888. | 0.641 | 2198. | 0.171 | 3508. | 0.05 |
| 889. | 0.642 | 2199. | 0.171 | 3509. | 0.051 |
| 890. | 0.646 | 2200. | 0.17 | 3510. | 0.051 |
| 891. | 0.64 | 2201. | 0.17 | 3511. | 0.051 |
| 892. | 0.64 | 2202. | 0.169 | 3512. | 0.051 |
| 893. | 0.642 | 2203. | 0.169 | 3513. | 0.051 |
| 894. | 0.645 | 2204. | 0.169 | 3514. | 0.051 |
| 895. | 0.644 | 2205. | 0.168 | 3515. | 0.051 |
| 896. | 0.646 | 2206. | 0.168 | 3516. | 0.05 |
| 897. | 0.641 | 2207. | 0.167 | 3517. | 0.05 |
| 898. | 0.643 | 2208. | 0.167 | 3518. | 0.05 |
| 899. | 0.642 | 2209. | 0.166 | 3519. | 0.05 |
| 900. | 0.644 | 2210. | 0.166 | 3520. | 0.05 |
| 901. | 0.641 | 2211. | 0.166 | 3521. | 0.05 |
| 902. | 0.641 | 2212. | 0.165 | 3522. | 0.05 |
| 903. | 0.642 | 2213. | 0.165 | 3523. | 0.05 |
| 904. | 0.644 | 2214. | 0.164 | 3524. | 0.05 |
| 905. | 0.645 | 2215. | 0.164 | 3525. | 0.05 |
| 906. | 0.641 | 2216. | 0.163 | 3526. | 0.05 |
| 907. | 0.641 | 2217. | 0.163 | 3527. | 0.05 |
| 908. | 0.639 | 2218. | 0.163 | 3528. | 0.049 |
| 909. | 0.643 | 2219. | 0.162 | 3529. | 0.05 |
| 910. | 0.644 | 2220. | 0.162 | 3530. | 0.05 |
| 911. | 0.644 | 2221. | 0.161 | 3531. | 0.05 |
| 912. | 0.641 | 2222. | 0.161 | 3532. | 0.049 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 913. | 0.641 | 2223. | 0.161 | 3533. | 0.05 |
| 914. | 0.642 | 2224. | 0.16 | 3534. | 0.05 |
| 915. | 0.642 | 2225. | 0.16 | 3535. | 0.05 |
| 916. | 0.636 | 2226. | 0.159 | 3536. | 0.05 |
| 917. | 0.645 | 2227. | 0.159 | 3537. | 0.049 |
| 918. | 0.639 | 2228. | 0.159 | 3538. | 0.049 |
| 919. | 0.638 | 2229. | 0.159 | 3539. | 0.049 |
| 920. | 0.637 | 2230. | 0.158 | 3540. | 0.05 |
| 921. | 0.64 | 2231. | 0.158 | 3541. | 0.049 |
| 922. | 0.64 | 2232. | 0.157 | 3542. | 0.049 |
| 923. | 0.64 | 2233. | 0.157 | 3543. | 0.049 |
| 924. | 0.644 | 2234. | 0.156 | 3544. | 0.049 |
| 925. | 0.638 | 2235. | 0.156 | 3545. | 0.049 |
| 926. | 0.642 | 2236. | 0.156 | 3546. | 0.049 |
| 927. | 0.642 | 2237. | 0.155 | 3547. | 0.05 |
| 928. | 0.639 | 2238. | 0.155 | 3548. | 0.049 |
| 929. | 0.639 | 2239. | 0.155 | 3549. | 0.049 |
| 930. | 0.638 | 2240. | 0.154 | 3550. | 0.049 |
| 931. | 0.641 | 2241. | 0.154 | 3551. | 0.049 |
| 932. | 0.64 | 2242. | 0.154 | 3552. | 0.049 |
| 933. | 0.642 | 2243. | 0.154 | 3553. | 0.049 |
| 934. | 0.644 | 2244. | 0.153 | 3554. | 0.049 |
| 935. | 0.642 | 2245. | 0.153 | 3555. | 0.049 |
| 936. | 0.639 | 2246. | 0.152 | 3556. | 0.049 |
| 937. | 0.64 | 2247. | 0.152 | 3557. | 0.049 |
| 938. | 0.64 | 2248. | 0.152 | 3558. | 0.05 |
| 939. | 0.645 | 2249. | 0.151 | 3559. | 0.049 |
| 940. | 0.639 | 2250. | 0.151 | 3560. | 0.049 |
| 941. | 0.642 | 2251. | 0.151 | 3561. | 0.049 |
| 942. | 0.641 | 2252. | 0.15 | 3562. | 0.049 |
| 943. | 0.644 | 2253. | 0.15 | 3563. | 0.049 |
| 944. | 0.644 | 2254. | 0.15 | 3564. | 0.049 |
| 945. | 0.646 | 2255. | 0.149 | 3565. | 0.049 |
| 946. | 0.643 | 2256. | 0.149 | 3566. | 0.049 |
| 947. | 0.647 | 2257. | 0.149 | 3567. | 0.049 |
| 948. | 0.643 | 2258. | 0.148 | 3568. | 0.049 |
| 949. | 0.642 | 2259. | 0.148 | 3569. | 0.049 |
| 950. | 0.643 | 2260. | 0.148 | 3570. | 0.049 |
| 951. | 0.642 | 2261. | 0.147 | 3571. | 0.049 |
| 952. | 0.642 | 2262. | 0.147 | 3572. | 0.049 |
| 953. | 0.645 | 2263. | 0.147 | 3573. | 0.049 |
| 954. | 0.645 | 2264. | 0.147 | 3574. | 0.049 |
| 955. | 0.64 | 2265. | 0.146 | 3575. | 0.048 |
| 956. | 0.643 | 2266. | 0.146 | 3576. | 0.049 |
| 957. | 0.641 | 2267. | 0.146 | 3577. | 0.049 |
| 958. | 0.636 | 2268. | 0.145 | 3578. | 0.049 |
| 959. | 0.642 | 2269. | 0.145 | 3579. | 0.049 |
| 960. | 0.644 | 2270. | 0.145 | 3580. | 0.049 |
| 961. | 0.641 | 2271. | 0.145 | 3581. | 0.049 |
| 962. | 0.638 | 2272. | 0.144 | 3582. | 0.049 |
| 963. | 0.639 | 2273. | 0.144 | 3583. | 0.049 |
| 964. | 0.637 | 2274. | 0.144 | 3584. | 0.049 |
| 965. | 0.639 | 2275. | 0.143 | 3585. | 0.049 |
| 966. | 0.639 | 2276. | 0.143 | 3586. | 0.049 |
| 967. | 0.636 | 2277. | 0.143 | 3587. | 0.049 |
| 968. | 0.639 | 2278. | 0.142 | 3588. | 0.049 |
| 969. | 0.635 | 2279. | 0.142 | 3589. | 0.049 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 970. | 0.641 | 2280. | 0.142 | 3590. | 0.049 |
| 971. | 0.639 | 2281. | 0.142 | 3591. | 0.049 |
| 972. | 0.643 | 2282. | 0.141 | 3592. | 0.049 |
| 973. | 0.638 | 2283. | 0.141 | 3593. | 0.049 |
| 974. | 0.638 | 2284. | 0.141 | 3594. | 0.049 |
| 975. | 0.636 | 2285. | 0.141 | 3595. | 0.049 |
| 976. | 0.643 | 2286. | 0.141 | 3596. | 0.049 |
| 977. | 0.641 | 2287. | 0.14 | 3597. | 0.049 |
| 978. | 0.639 | 2288. | 0.14 | 3598. | 0.049 |
| 979. | 0.64 | 2289. | 0.14 | 3599. | 0.049 |
| 980. | 0.638 | 2290. | 0.139 | 3600. | 0.049 |
| 981. | 0.643 | 2291. | 0.139 | 3601. | 0.049 |
| 982. | 0.646 | 2292. | 0.139 | 3602. | 0.049 |
| 983. | 0.645 | 2293. | 0.138 | 3603. | 0.048 |
| 984. | 0.645 | 2294. | 0.138 | 3604. | 0.048 |
| 985. | 0.65 | 2295. | 0.138 | 3605. | 0.048 |
| 986. | 0.649 | 2296. | 0.138 | 3606. | 0.048 |
| 987. | 0.652 | 2297. | 0.138 | 3607. | 0.048 |
| 988. | 0.653 | 2298. | 0.138 | 3608. | 0.048 |
| 989. | 0.656 | 2299. | 0.137 | 3609. | 0.048 |
| 990. | 0.654 | 2300. | 0.137 | 3610. | 0.048 |
| 991. | 0.65 | 2301. | 0.136 | 3611. | 0.048 |
| 992. | 0.655 | 2302. | 0.137 | 3612. | 0.048 |
| 993. | 0.651 | 2303. | 0.136 | 3613. | 0.048 |
| 994. | 0.658 | 2304. | 0.136 | 3614. | 0.048 |
| 995. | 0.653 | 2305. | 0.136 | 3615. | 0.048 |
| 996. | 0.657 | 2306. | 0.135 | 3616. | 0.048 |
| 997. | 0.658 | 2307. | 0.135 | 3617. | 0.048 |
| 998. | 0.655 | 2308. | 0.135 | 3618. | 0.048 |
| 999. | 0.657 | 2309. | 0.134 | 3619. | 0.048 |
| 1000. | 0.657 | 2310. | 0.134 | 3620. | 0.048 |
| 1001. | 0.656 | 2311. | 0.134 | 3621. | 0.048 |
| 1002. | 0.658 | 2312. | 0.134 | 3622. | 0.048 |
| 1003. | 0.658 | 2313. | 0.134 | 3623. | 0.048 |
| 1004. | 0.66 | 2314. | 0.133 | 3624. | 0.048 |
| 1005. | 0.66 | 2315. | 0.133 | 3625. | 0.048 |
| 1006. | 0.658 | 2316. | 0.133 | 3626. | 0.048 |
| 1007. | 0.66 | 2317. | 0.133 | 3627. | 0.048 |
| 1008. | 0.662 | 2318. | 0.133 | 3628. | 0.048 |
| 1009. | 0.66 | 2319. | 0.132 | 3629. | 0.048 |
| 1010. | 0.66 | 2320. | 0.132 | 3630. | 0.048 |
| 1011. | 0.655 | 2321. | 0.132 | 3631. | 0.048 |
| 1012. | 0.661 | 2322. | 0.132 | 3632. | 0.048 |
| 1013. | 0.659 | 2323. | 0.132 | 3633. | 0.048 |
| 1014. | 0.659 | 2324. | 0.131 | 3634. | 0.048 |
| 1015. | 0.66 | 2325. | 0.131 | 3635. | 0.048 |
| 1016. | 0.656 | 2326. | 0.131 | 3636. | 0.047 |
| 1017. | 0.659 | 2327. | 0.13 | 3637. | 0.048 |
| 1018. | 0.661 | 2328. | 0.13 | 3638. | 0.048 |
| 1019. | 0.656 | 2329. | 0.13 | 3639. | 0.048 |
| 1020. | 0.658 | 2330. | 0.13 | 3640. | 0.048 |
| 1021. | 0.658 | 2331. | 0.13 | 3641. | 0.048 |
| 1022. | 0.656 | 2332. | 0.129 | 3642. | 0.047 |
| 1023. | 0.658 | 2333. | 0.129 | 3643. | 0.048 |
| 1024. | 0.653 | 2334. | 0.129 | 3644. | 0.047 |
| 1025. | 0.658 | 2335. | 0.129 | 3645. | 0.047 |
| 1026. | 0.656 | 2336. | 0.128 | 3646. | 0.047 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1027. | 0.656 | 2337. | 0.128 | 3647. | 0.047 |
| 1028. | 0.657 | 2338. | 0.128 | 3648. | 0.047 |
| 1029. | 0.658 | 2339. | 0.128 | 3649. | 0.047 |
| 1030. | 0.657 | 2340. | 0.127 | 3650. | 0.047 |
| 1031. | 0.654 | 2341. | 0.127 | 3651. | 0.047 |
| 1032. | 0.663 | 2342. | 0.127 | 3652. | 0.047 |
| 1033. | 0.654 | 2343. | 0.127 | 3653. | 0.047 |
| 1034. | 0.659 | 2344. | 0.127 | 3654. | 0.047 |
| 1035. | 0.659 | 2345. | 0.127 | 3655. | 0.047 |
| 1036. | 0.656 | 2346. | 0.126 | 3656. | 0.047 |
| 1037. | 0.662 | 2347. | 0.126 | 3657. | 0.047 |
| 1038. | 0.659 | 2348. | 0.126 | 3658. | 0.047 |
| 1039. | 0.658 | 2349. | 0.126 | 3659. | 0.047 |
| 1040. | 0.658 | 2350. | 0.125 | 3660. | 0.047 |
| 1041. | 0.655 | 2351. | 0.125 | 3661. | 0.047 |
| 1042. | 0.658 | 2352. | 0.125 | 3662. | 0.047 |
| 1043. | 0.658 | 2353. | 0.125 | 3663. | 0.047 |
| 1044. | 0.654 | 2354. | 0.125 | 3664. | 0.047 |
| 1045. | 0.658 | 2355. | 0.124 | 3665. | 0.047 |
| 1046. | 0.658 | 2356. | 0.125 | 3666. | 0.047 |
| 1047. | 0.657 | 2357. | 0.124 | 3667. | 0.047 |
| 1048. | 0.659 | 2358. | 0.124 | 3668. | 0.047 |
| 1049. | 0.653 | 2359. | 0.124 | 3669. | 0.047 |
| 1050. | 0.656 | 2360. | 0.124 | 3670. | 0.047 |
| 1051. | 0.654 | 2361. | 0.124 | 3671. | 0.047 |
| 1052. | 0.653 | 2362. | 0.123 | 3672. | 0.047 |
| 1053. | 0.657 | 2363. | 0.123 | 3673. | 0.047 |
| 1054. | 0.656 | 2364. | 0.123 | 3674. | 0.047 |
| 1055. | 0.659 | 2365. | 0.123 | 3675. | 0.047 |
| 1056. | 0.659 | 2366. | 0.123 | 3676. | 0.047 |
| 1057. | 0.66 | 2367. | 0.123 | 3677. | 0.047 |
| 1058. | 0.656 | 2368. | 0.123 | 3678. | 0.047 |
| 1059. | 0.662 | 2369. | 0.123 | 3679. | 0.047 |
| 1060. | 0.659 | 2370. | 0.122 | 3680. | 0.047 |
| 1061. | 0.659 | 2371. | 0.122 | 3681. | 0.047 |
| 1062. | 0.656 | 2372. | 0.122 | 3682. | 0.047 |
| 1063. | 0.652 | 2373. | 0.122 | 3683. | 0.047 |
| 1064. | 0.664 | 2374. | 0.121 | 3684. | 0.047 |
| 1065. | 0.656 | 2375. | 0.121 | 3685. | 0.047 |
| 1066. | 0.657 | 2376. | 0.121 | 3686. | 0.047 |
| 1067. | 0.655 | 2377. | 0.121 | 3687. | 0.047 |
| 1068. | 0.654 | 2378. | 0.12 | 3688. | 0.047 |
| 1069. | 0.658 | 2379. | 0.12 | 3689. | 0.047 |
| 1070. | 0.655 | 2380. | 0.12 | 3690. | 0.046 |
| 1071. | 0.661 | 2381. | 0.12 | 3691. | 0.047 |
| 1072. | 0.659 | 2382. | 0.12 | 3692. | 0.046 |
| 1073. | 0.661 | 2383. | 0.12 | 3693. | 0.047 |
| 1074. | 0.66 | 2384. | 0.12 | 3694. | 0.046 |
| 1075. | 0.66 | 2385. | 0.12 | 3695. | 0.046 |
| 1076. | 0.655 | 2386. | 0.119 | 3696. | 0.046 |
| 1077. | 0.662 | 2387. | 0.119 | 3697. | 0.046 |
| 1078. | 0.658 | 2388. | 0.119 | 3698. | 0.046 |
| 1079. | 0.657 | 2389. | 0.119 | 3699. | 0.046 |
| 1080. | 0.659 | 2390. | 0.119 | 3700. | 0.046 |
| 1081. | 0.659 | 2391. | 0.118 | 3701. | 0.046 |
| 1082. | 0.656 | 2392. | 0.118 | 3702. | 0.046 |
| 1083. | 0.661 | 2393. | 0.118 | 3703. | 0.046 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1084. | 0.656 | 2394. | 0.118 | 3704. | 0.046 |
| 1085. | 0.659 | 2395. | 0.118 | 3705. | 0.046 |
| 1086. | 0.665 | 2396. | 0.118 | 3706. | 0.046 |
| 1087. | 0.66 | 2397. | 0.117 | 3707. | 0.046 |
| 1088. | 0.656 | 2398. | 0.117 | 3708. | 0.046 |
| 1089. | 0.661 | 2399. | 0.117 | 3709. | 0.046 |
| 1090. | 0.658 | 2400. | 0.117 | 3710. | 0.046 |
| 1091. | 0.657 | 2401. | 0.117 | 3711. | 0.046 |
| 1092. | 0.658 | 2402. | 0.117 | 3712. | 0.046 |
| 1093. | 0.657 | 2403. | 0.117 | 3713. | 0.046 |
| 1094. | 0.659 | 2404. | 0.116 | 3714. | 0.046 |
| 1095. | 0.661 | 2405. | 0.116 | 3715. | 0.046 |
| 1096. | 0.656 | 2406. | 0.116 | 3716. | 0.046 |
| 1097. | 0.657 | 2407. | 0.116 | 3717. | 0.046 |
| 1098. | 0.655 | 2408. | 0.116 | 3718. | 0.046 |
| 1099. | 0.655 | 2409. | 0.116 | 3719. | 0.046 |
| 1100. | 0.656 | 2410. | 0.115 | 3720. | 0.046 |
| 1101. | 0.656 | 2411. | 0.115 | 3721. | 0.046 |
| 1102. | 0.654 | 2412. | 0.115 | 3722. | 0.046 |
| 1103. | 0.657 | 2413. | 0.115 | 3723. | 0.046 |
| 1104. | 0.655 | 2414. | 0.115 | 3724. | 0.046 |
| 1105. | 0.653 | 2415. | 0.114 | 3725. | 0.046 |
| 1106. | 0.655 | 2416. | 0.114 | 3726. | 0.046 |
| 1107. | 0.658 | 2417. | 0.114 | 3727. | 0.046 |
| 1108. | 0.657 | 2418. | 0.114 | 3728. | 0.046 |
| 1109. | 0.66 | 2419. | 0.114 | 3729. | 0.046 |
| 1110. | 0.654 | 2420. | 0.114 | 3730. | 0.046 |
| 1111. | 0.655 | 2421. | 0.113 | 3731. | 0.046 |
| 1112. | 0.656 | 2422. | 0.113 | 3732. | 0.046 |
| 1113. | 0.659 | 2423. | 0.113 | 3733. | 0.046 |
| 1114. | 0.657 | 2424. | 0.113 | 3734. | 0.046 |
| 1115. | 0.657 | 2425. | 0.113 | 3735. | 0.046 |
| 1116. | 0.656 | 2426. | 0.113 | 3736. | 0.046 |
| 1117. | 0.655 | 2427. | 0.113 | 3737. | 0.046 |
| 1118. | 0.66 | 2428. | 0.112 | 3738. | 0.046 |
| 1119. | 0.66 | 2429. | 0.112 | 3739. | 0.046 |
| 1120. | 0.659 | 2430. | 0.112 | 3740. | 0.046 |
| 1121. | 0.657 | 2431. | 0.112 | 3741. | 0.046 |
| 1122. | 0.66 | 2432. | 0.112 | 3742. | 0.046 |
| 1123. | 0.663 | 2433. | 0.111 | 3743. | 0.045 |
| 1124. | 0.656 | 2434. | 0.111 | 3744. | 0.045 |
| 1125. | 0.659 | 2435. | 0.111 | 3745. | 0.045 |
| 1126. | 0.657 | 2436. | 0.111 | 3746. | 0.046 |
| 1127. | 0.66 | 2437. | 0.111 | 3747. | 0.046 |
| 1128. | 0.659 | 2438. | 0.111 | 3748. | 0.046 |
| 1129. | 0.659 | 2439. | 0.111 | 3749. | 0.045 |
| 1130. | 0.656 | 2440. | 0.111 | 3750. | 0.045 |
| 1131. | 0.661 | 2441. | 0.111 | 3751. | 0.046 |
| 1132. | 0.658 | 2442. | 0.11 | 3752. | 0.045 |
| 1133. | 0.662 | 2443. | 0.11 | 3753. | 0.045 |
| 1134. | 0.657 | 2444. | 0.11 | 3754. | 0.045 |
| 1135. | 0.664 | 2445. | 0.109 | 3755. | 0.045 |
| 1136. | 0.659 | 2446. | 0.11 | 3756. | 0.045 |
| 1137. | 0.662 | 2447. | 0.11 | 3757. | 0.045 |
| 1138. | 0.661 | 2448. | 0.11 | 3758. | 0.045 |
| 1139. | 0.655 | 2449. | 0.109 | 3759. | 0.045 |
| 1140. | 0.66 | 2450. | 0.109 | 3760. | 0.045 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1141. | 0.663 | 2451. | 0.109 | 3761. | 0.045 |
| 1142. | 0.655 | 2452. | 0.109 | 3762. | 0.045 |
| 1143. | 0.662 | 2453. | 0.108 | 3763. | 0.045 |
| 1144. | 0.661 | 2454. | 0.108 | 3764. | 0.045 |
| 1145. | 0.658 | 2455. | 0.108 | 3765. | 0.045 |
| 1146. | 0.662 | 2456. | 0.108 | 3766. | 0.045 |
| 1147. | 0.658 | 2457. | 0.107 | 3767. | 0.046 |
| 1148. | 0.66 | 2458. | 0.107 | 3768. | 0.045 |
| 1149. | 0.661 | 2459. | 0.107 | 3769. | 0.045 |
| 1150. | 0.658 | 2460. | 0.107 | 3770. | 0.045 |
| 1151. | 0.66 | 2461. | 0.107 | 3771. | 0.045 |
| 1152. | 0.657 | 2462. | 0.107 | 3772. | 0.045 |
| 1153. | 0.659 | 2463. | 0.107 | 3773. | 0.045 |
| 1154. | 0.655 | 2464. | 0.106 | 3774. | 0.045 |
| 1155. | 0.658 | 2465. | 0.106 | 3775. | 0.045 |
| 1156. | 0.66 | 2466. | 0.106 | 3776. | 0.045 |
| 1157. | 0.663 | 2467. | 0.106 | 3777. | 0.045 |
| 1158. | 0.656 | 2468. | 0.106 | 3778. | 0.045 |
| 1159. | 0.657 | 2469. | 0.106 | 3779. | 0.045 |
| 1160. | 0.66 | 2470. | 0.106 | 3780. | 0.045 |
| 1161. | 0.66 | 2471. | 0.106 | 3781. | 0.045 |
| 1162. | 0.659 | 2472. | 0.106 | 3782. | 0.045 |
| 1163. | 0.658 | 2473. | 0.106 | 3783. | 0.045 |
| 1164. | 0.656 | 2474. | 0.106 | 3784. | 0.045 |
| 1165. | 0.663 | 2475. | 0.106 | 3785. | 0.045 |
| 1166. | 0.664 | 2476. | 0.106 | 3786. | 0.045 |
| 1167. | 0.661 | 2477. | 0.105 | 3787. | 0.045 |
| 1168. | 0.666 | 2478. | 0.106 | 3788. | 0.045 |
| 1169. | 0.667 | 2479. | 0.105 | 3789. | 0.045 |
| 1170. | 0.667 | 2480. | 0.105 | 3790. | 0.045 |
| 1171. | 0.673 | 2481. | 0.105 | 3791. | 0.045 |
| 1172. | 0.67 | 2482. | 0.105 | 3792. | 0.045 |
| 1173. | 0.671 | 2483. | 0.105 | 3793. | 0.045 |
| 1174. | 0.673 | 2484. | 0.105 | 3794. | 0.045 |
| 1175. | 0.673 | 2485. | 0.105 | 3795. | 0.045 |
| 1176. | 0.672 | 2486. | 0.105 | 3796. | 0.045 |
| 1177. | 0.675 | 2487. | 0.105 | 3797. | 0.045 |
| 1178. | 0.674 | 2488. | 0.104 | 3798. | 0.045 |
| 1179. | 0.669 | 2489. | 0.104 | 3799. | 0.045 |
| 1180. | 0.676 | 2490. | 0.104 | 3800. | 0.045 |
| 1181. | 0.676 | 2491. | 0.104 | 3801. | 0.044 |
| 1182. | 0.679 | 2492. | 0.103 | 3802. | 0.045 |
| 1183. | 0.683 | 2493. | 0.103 | 3803. | 0.045 |
| 1184. | 0.679 | 2494. | 0.103 | 3804. | 0.045 |
| 1185. | 0.682 | 2495. | 0.103 | 3805. | 0.045 |
| 1186. | 0.679 | 2496. | 0.104 | 3806. | 0.044 |
| 1187. | 0.679 | 2497. | 0.103 | 3807. | 0.045 |
| 1188. | 0.679 | 2498. | 0.104 | 3808. | 0.044 |
| 1189. | 0.682 | 2499. | 0.103 | 3809. | 0.044 |
| 1190. | 0.679 | 2500. | 0.103 | 3810. | 0.044 |
| 1191. | 0.675 | 2501. | 0.103 | 3811. | 0.044 |
| 1192. | 0.68 | 2502. | 0.103 | 3812. | 0.044 |
| 1193. | 0.685 | 2503. | 0.102 | 3813. | 0.044 |
| 1194. | 0.677 | 2504. | 0.103 | 3814. | 0.044 |
| 1195. | 0.681 | 2505. | 0.102 | 3815. | 0.044 |
| 1196. | 0.679 | 2506. | 0.102 | 3816. | 0.044 |
| 1197. | 0.683 | 2507. | 0.102 | 3817. | 0.045 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1198. | 0.682 | 2508. | 0.102 | 3818. | 0.044 |
| 1199. | 0.68 | 2509. | 0.102 | 3819. | 0.045 |
| 1200. | 0.679 | 2510. | 0.102 | 3820. | 0.045 |
| 1201. | 0.681 | 2511. | 0.102 | 3821. | 0.045 |
| 1202. | 0.679 | 2512. | 0.102 | 3822. | 0.045 |
| 1203. | 0.679 | 2513. | 0.101 | 3823. | 0.045 |
| 1204. | 0.679 | 2514. | 0.101 | 3824. | 0.045 |
| 1205. | 0.677 | 2515. | 0.101 | 3825. | 0.045 |
| 1206. | 0.68 | 2516. | 0.101 | 3826. | 0.045 |
| 1207. | 0.677 | 2517. | 0.101 | 3827. | 0.045 |
| 1208. | 0.68 | 2518. | 0.101 | 3828. | 0.045 |
| 1209. | 0.678 | 2519. | 0.101 | 3829. | 0.044 |
| 1210. | 0.682 | 2520. | 0.101 | 3830. | 0.044 |
| 1211. | 0.676 | 2521. | 0.101 | 3831. | 0.045 |
| 1212. | 0.683 | 2522. | 0.1 | 3832. | 0.044 |
| 1213. | 0.682 | 2523. | 0.1 | 3833. | 0.044 |
| 1214. | 0.681 | 2524. | 0.1 | 3834. | 0.044 |
| 1215. | 0.68 | 2525. | 0.1 | 3835. | 0.044 |
| 1216. | 0.683 | 2526. | 0.1 | 3836. | 0.045 |
| 1217. | 0.683 | 2527. | 0.099 | 3837. | 0.044 |
| 1218. | 0.682 | 2528. | 0.099 | 3838. | 0.044 |
| 1219. | 0.683 | 2529. | 0.099 | 3839. | 0.044 |
| 1220. | 0.68 | 2530. | 0.099 | 3840. | 0.044 |
| 1221. | 0.68 | 2531. | 0.099 | 3841. | 0.045 |
| 1222. | 0.682 | 2532. | 0.099 | 3842. | 0.044 |
| 1223. | 0.681 | 2533. | 0.099 | 3843. | 0.044 |
| 1224. | 0.686 | 2534. | 0.099 | 3844. | 0.044 |
| 1225. | 0.681 | 2535. | 0.098 | 3845. | 0.044 |
| 1226. | 0.683 | 2536. | 0.098 | 3846. | 0.044 |
| 1227. | 0.684 | 2537. | 0.098 | 3847. | 0.044 |
| 1228. | 0.683 | 2538. | 0.098 | 3848. | 0.044 |
| 1229. | 0.684 | 2539. | 0.098 | 3849. | 0.044 |
| 1230. | 0.684 | 2540. | 0.098 | 3850. | 0.044 |
| 1231. | 0.685 | 2541. | 0.098 | 3851. | 0.044 |
| 1232. | 0.684 | 2542. | 0.097 | 3852. | 0.044 |
| 1233. | 0.689 | 2543. | 0.097 | 3853. | 0.044 |
| 1234. | 0.687 | 2544. | 0.097 | 3854. | 0.044 |
| 1235. | 0.684 | 2545. | 0.097 | 3855. | 0.044 |
| 1236. | 0.687 | 2546. | 0.097 | 3856. | 0.044 |
| 1237. | 0.681 | 2547. | 0.097 | 3857. | 0.044 |
| 1238. | 0.688 | 2548. | 0.097 | 3858. | 0.044 |
| 1239. | 0.687 | 2549. | 0.097 | 3859. | 0.044 |
| 1240. | 0.684 | 2550. | 0.097 | 3860. | 0.044 |
| 1241. | 0.688 | 2551. | 0.097 | 3861. | 0.044 |
| 1242. | 0.684 | 2552. | 0.097 | 3862. | 0.044 |
| 1243. | 0.689 | 2553. | 0.097 | 3863. | 0.044 |
| 1244. | 0.684 | 2554. | 0.096 | 3864. | 0.044 |
| 1245. | 0.693 | 2555. | 0.096 | 3865. | 0.044 |
| 1246. | 0.685 | 2556. | 0.096 | 3866. | 0.044 |
| 1247. | 0.685 | 2557. | 0.096 | 3867. | 0.044 |
| 1248. | 0.69 | 2558. | 0.096 | 3868. | 0.043 |
| 1249. | 0.687 | 2559. | 0.096 | 3869. | 0.044 |
| 1250. | 0.686 | 2560. | 0.096 | 3870. | 0.044 |
| 1251. | 0.683 | 2561. | 0.096 | 3871. | 0.044 |
| 1252. | 0.685 | 2562. | 0.096 | 3872. | 0.044 |
| 1253. | 0.684 | 2563. | 0.096 | 3873. | 0.044 |
| 1254. | 0.687 | 2564. | 0.095 | 3874. | 0.044 |

| <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> | <u>Time (sec)</u> | <u>Displacement (m)</u> |
|-------------------|-------------------------|-------------------|-------------------------|-------------------|-------------------------|
| 1255. | 0.691 | 2565. | 0.095 | 3875. | 0.043 |
| 1256. | 0.683 | 2566. | 0.095 | 3876. | 0.043 |
| 1257. | 0.688 | 2567. | 0.095 | 3877. | 0.043 |
| 1258. | 0.687 | 2568. | 0.095 | 3878. | 0.043 |
| 1259. | 0.686 | 2569. | 0.095 | 3879. | 0.043 |
| 1260. | 0.687 | 2570. | 0.095 | 3880. | 0.043 |
| 1261. | 0.687 | 2571. | 0.095 | 3881. | 0.043 |
| 1262. | 0.689 | 2572. | 0.095 | 3882. | 0.043 |
| 1263. | 0.682 | 2573. | 0.094 | 3883. | 0.043 |
| 1264. | 0.685 | 2574. | 0.094 | 3884. | 0.043 |
| 1265. | 0.687 | 2575. | 0.095 | 3885. | 0.043 |
| 1266. | 0.685 | 2576. | 0.095 | 3886. | 0.043 |
| 1267. | 0.681 | 2577. | 0.095 | 3887. | 0.043 |
| 1268. | 0.682 | 2578. | 0.095 | 3888. | 0.043 |
| 1269. | 0.683 | 2579. | 0.095 | 3889. | 0.043 |
| 1270. | 0.686 | 2580. | 0.094 | 3890. | 0.043 |
| 1271. | 0.681 | 2581. | 0.094 | 3891. | 0.043 |
| 1272. | 0.686 | 2582. | 0.094 | 3892. | 0.043 |
| 1273. | 0.687 | 2583. | 0.094 | 3893. | 0.043 |
| 1274. | 0.682 | 2584. | 0.094 | 3894. | 0.043 |
| 1275. | 0.683 | 2585. | 0.094 | 3895. | 0.043 |
| 1276. | 0.685 | 2586. | 0.094 | 3896. | 0.043 |
| 1277. | 0.686 | 2587. | 0.094 | 3897. | 0.043 |
| 1278. | 0.683 | 2588. | 0.094 | 3898. | 0.043 |
| 1279. | 0.683 | 2589. | 0.093 | 3899. | 0.043 |
| 1280. | 0.683 | 2590. | 0.093 | 3900. | 0.043 |
| 1281. | 0.68 | 2591. | 0.093 | 3901. | 0.043 |
| 1282. | 0.68 | 2592. | 0.093 | 3902. | 0.043 |
| 1283. | 0.679 | 2593. | 0.093 | 3903. | 0.043 |
| 1284. | 0.685 | 2594. | 0.093 | 3904. | 0.043 |
| 1285. | 0.684 | 2595. | 0.093 | 3905. | 0.043 |
| 1286. | 0.685 | 2596. | 0.093 | 3906. | 0.043 |
| 1287. | 0.684 | 2597. | 0.093 | 3907. | 0.043 |
| 1288. | 0.682 | 2598. | 0.092 | 3908. | 0.043 |
| 1289. | 0.684 | 2599. | 0.092 | 3909. | 0.043 |
| 1290. | 0.682 | 2600. | 0.092 | 3910. | 0.043 |
| 1291. | 0.688 | 2601. | 0.092 | 3911. | 0.043 |
| 1292. | 0.684 | 2602. | 0.092 | 3912. | 0.044 |
| 1293. | 0.69 | 2603. | 0.092 | 3913. | 0.044 |
| 1294. | 0.688 | 2604. | 0.092 | 3914. | 0.044 |
| 1295. | 0.684 | 2605. | 0.092 | 3915. | 0.043 |
| 1296. | 0.683 | 2606. | 0.091 | 3916. | 0.043 |
| 1297. | 0.683 | 2607. | 0.091 | 3917. | 0.043 |
| 1298. | 0.689 | 2608. | 0.091 | 3918. | 0.043 |
| 1299. | 0.685 | 2609. | 0.091 | 3919. | 0.043 |
| 1300. | 0.685 | 2610. | 0.091 | 3920. | 0.043 |
| 1301. | 0.683 | 2611. | 0.091 | 3921. | 0.043 |
| 1302. | 0.682 | 2612. | 0.091 | 3922. | 0.043 |
| 1303. | 0.686 | 2613. | 0.091 | 3923. | 0.043 |
| 1304. | 0.685 | 2614. | 0.091 | 3924. | 0.043 |
| 1305. | 0.685 | 2615. | 0.091 | 3925. | 0.043 |
| 1306. | 0.683 | 2616. | 0.09 | 3926. | 0.043 |
| 1307. | 0.684 | 2617. | 0.09 | 3927. | 0.043 |
| 1308. | 0.683 | 2618. | 0.09 | 3928. | 0.043 |
| 1309. | 0.681 | 2619. | 0.09 | 3929. | 0.043 |
| 1310. | 0.686 | 2620. | 0.09 | 3930. | 0.042 |

SOLUTION

Pumping Test
 Aquifer Model: Unconfined
 Solution Method: Theis

VISUAL ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | |
|-----------|-----------|---------------------|
| T | 0.0005009 | m ² /sec |
| S | 1.253 | |
| Kz/Kr | 1. | |
| b | 9.1 | m |

$K = T/b = 5.504E-5$ m/sec (0.005504 cm/sec)
 $S_s = S/b = 0.1377$ 1/m

AUTOMATIC ESTIMATION RESULTS

Estimated Parameters

| Parameter | Estimate | Std. Error | Approx. C.I. | t-Ratio | |
|-----------|-----------|---------------|--------------|---------|---------------------|
| T | 0.0004362 | 2.906E-6 | +/- 5.696E-6 | 150.1 | m ² /sec |
| S | 3.005 | 0.09918 | +/- 0.1944 | 30.3 | |
| Kz/Kr | 1. | not estimated | | | |
| b | 9.1 | not estimated | | | m |

C.I. is approximate 95% confidence interval for parameter
 t-ratio = estimate/std. error
 No estimation window

$K = T/b = 4.794E-5$ m/sec (0.004794 cm/sec)
 $S_s = S/b = 0.3303$ 1/m

Parameter Correlations

| | T | S |
|---|-------|-------|
| T | 1.00 | -0.84 |
| S | -0.84 | 1.00 |

Residual Statistics

for weighted residuals

Sum of Squares... 36.61 m²
 Variance 0.009319 m²
 Std. Deviation 0.09654 m
 Mean -0.01151 m
 No. of Residuals .. 3930
 No. of Estimates .. 2

Appendix D

Groundwater Sampling Results and Certificates of Analysis



eNGLOBE

Table D-1 - Groundwater Sampling Results - Hydrogeological Assessment

| Parameter | Standards | | Analytical Results (Sample ID / Sampling Date DD/MM/YYYY) |
|------------------------------------|---|---|---|
| | Bylaw 2003-514 (Sanitary and Combined) Table 1 | Bylaw 2003-514 (Storm Sewer Discharge) Table 2 | MW23-02 09/13/2023 |
| Calculated Parameters | | | |
| Oil & Grease . Animal & Vegetable | 150000 | NG | <500 |
| Total PAHs | 15 | 6 | <0.96 |
| Inorganics | | | |
| Biochemical Oxygen Demand | 300000 | 25000 | NM |
| Fluoride | 10000 | NG | 300 |
| Total Kjeldahl Nitrogen | 100000 | NG | 150 |
| pH | 5.5 - 11 | 6-9 | 7.78 |
| Phenolics (4AAP) | 1000 | 8 | <1 |
| Total Suspended Solids | 350000 | 15000 | <10000 |
| Sulphates | 1500000 | NG | 130000 |
| Sulphides | 2000 | NG | <20 |
| Cyanide (total) | 2000 | 20 | <5 |
| Metals | | | |
| Aluminum (total) | 50000 | NG | 16 |
| Antimony (total) | 5000 | NG | <0.50 |
| Arsenic (total) | 1000 | 20 | <1.0 |
| Bismuth (total) | 5000 | NG | <1.0 |
| Boron (total) | 25000 | NG | 200 |
| Cadmium (total) | 20 | 8 | <0.090 |
| Chromium (total) | 5000 | 80 | <5.0 |
| Cobalt (total) | 5000 | NG | 1.2 |
| Copper (total) | 3000 | 40 | 3.4 |
| Lead (total) | 5000 | 120 | <0.50 |
| Manganese (total) | 5000 | 50 | 18 |
| Mercury (total) | 1 | 0.4 | <0.1 |
| Molybdenum (total) | 5000 | NG | 1.7 |
| Nickel (total) | 3000 | 80 | 3.0 |
| Phosphorous (total) | 10000 | 400 | <100 |
| Selenium (total) | 5000 | 20 | <2.0 |
| Silver (total) | 5000 | 120 | <0.090 |
| Tin (total) | 5000 | NG | <1.0 |
| Titanium (total) | 5000 | NG | <5.0 |
| Vanadium | 5000 | NG | <0.50 |
| Zinc (total) | 3000 | 40 | 6.5 |
| Miscellaneous Parameters | | | |
| Formaldehyde | 300 | NG | NA |
| Nonylphenol ethoxylates | 25 | 10 | NA |
| Nonylphenols | 2.5 | 1 | NA |
| Temperature | 60 °C | 40 °C | NA |
| Petroleum Hydrocarbons | | | |
| Oil & Grease . Mineral & Synthetic | 15000 | NG | <500 |
| F1 (C6-C10) | NG | NG | NA |
| F2 (C10-C16 Hydrocarbons) | NG | NG | NA |
| F3 (C16-C34 Hydrocarbons) | NG | NG | NA |
| F4 (C34-C50 Hydrocarbons) | NG | NG | NA |
| Pesticides & Herbicides | | | |
| Hexachlorobenzene | 0.1 | 0.04 | <0.005 |
| Polychlorinated Biphenyls | | | |
| Dioxins and Furans (total) | 0.72 | NG | NA |
| PCBs (total) | NG | 0.4 | <0.05 |
| Semi Volatile Organics | | | |
| 1-Methylnaphthalene | 32 | NG | <0.3 |
| 2-Methylnaphthalene | 22 | NG | <0.3 |
| Bis(2-chloroethoxy)methane | 36 | NG | <0.50 |
| Bis(2-ethylehexyl)phthalate | 280 | NG | <2 |
| Benzylbutylphthalate | 17 | NG | <0.50 |
| Diethylphthalate | 200 | NG | <1.0 |
| Di-n-butylphthalate | 57 | NG | <2 |
| Di-n-octylphthalate | 30 | NG | <1.0 |
| 2,4-Dichlorophenol | 44 | NG | <0.30 |
| Fluorene | 59 | NG | <0.3 |
| Indole | 50 | NG | <1.0 |
| Naphthalene | 59 | 6.4 | <0.3 |
| N-Nitrosodimethylamine | 400 | NG | NA |

Table D-1 - Groundwater Sampling Results - Hydrogeological Assessment

| Parameter | Standards | | Analytical Results (Sample ID / Sampling Date DD/MM/YYYY) |
|--|--|---|---|
| | Bylaw 2003-514 (Sanitary and Combined) Table 1 | Bylaw 2003-514 (Storm Sewer Discharge) Table 2 | MW23-02 09/13/2023 |
| Volatile Organics | | | |
| Benzene | 10 | 2 | <0.20 |
| Bromodichloromethane | 350 | NG | <0.50 |
| Bromoform | 630 | NG | <1.0 |
| Bromomethane | 110 | NG | <0.50 |
| Carbon Tetrachloride | 57 | NG | <0.19 |
| Chlorobenzene | 57 | NG | <0.20 |
| Chloroethane | 270 | NG | <1.0 |
| Chloroform | 80 | 2 | 0.82 |
| Chloromethane | 190 | NG | <5.0 |
| Dibromochloromethane | 57 | NG | <0.50 |
| 1,2-Dichlorobenzene / o | 88 | 5.6 | <0.40 |
| 1,3-Dichlorobenzene / m | 36 | NG | <0.40 |
| 1,4-Dichlorobenzene / p | 17 | 6.8 | <0.40 |
| 1,1-Dichloroethane | 200 | NG | <0.20 |
| 1,2-Dichloroethane | 210 | NG | <0.49 |
| 1,1-Dichloroethylene | 40 | NG | <0.20 |
| cis-1,2-dichloroethylene | 200 | 5.6 | 16 |
| trans-1,2-dichloroethylene | 200 | NG | 1.7 |
| 1, 2-Dichloropropane | 850 | NG | <0.20 |
| 1,2 Dibromoethane (Ethylene dibromide) | 28 | NG | <0.30 |
| cis-1,3-Dichloropropylene | 70 | NG | <0.40 |
| trans-1,3-Dichloropropylene | 70 | 5.6 | <0.20 |
| Ethylbenzene | 57 | 2 | <0.19 |
| Methylene Chloride | 211 | 5.2 | <2.0 |
| Styrene | 40 | NG | <0.40 |
| 1,1,2,2-Tetrachloroethane | 40 | 17 | <0.40 |
| Tetrachloroethylene | 50 | 4.4 | 720 |
| Toluene | 80 | 2 | <0.20 |
| 1,1,1-Trichloroethane | 54 | NG | <0.20 |
| 1,1,2-Trichloroethane | 800 | NG | <0.20 |
| Trichloroethylene | 54 | 7.6 | <0.40 |
| Trichlorofluoromethane | 20 | NG | 44 |
| 1,3,5-Trimethylbenzene | 3 | NG | <0.50 |
| Vinyl Chloride | 400 | NG | 0.96 |
| Xylene (total) | 320 | 4.4 | <0.20 |
| Notes: | All units are expressed in micrograms per litre (µg/L). | | |
| MECP Table 9 | Ontario Ministry of the Environment, Conservation and Parks (MECP), "Soil, | | |
| Bylaw 2003-514 Table 1 | City of Ottawa Sewer Use (By-law No. 2003-514), Schedule "A" Table 1. | | |
| Bylaw 2003-514 Table 2 | City of Ottawa Sewer Use (By-law No. 2003-514), Schedule "A" Table 2. | | |
| NA | Parameter not analysed. | | |
| <Value | Less than laboratory reportable detection limit (value indicated). | | |
| NG | No guideline/standard available. | | |
| Value | Sample result exceeds Bylaw 2003-514 Table 1 standards. | | |
| Value | Sample result exceeds Bylaw 2003-514 Table 2 standards. | | |

Table D-2 Groundwater Sampling Results - Phase II Environmental Site Assessment Data

| Sample ID | MECP Table 7 SCS | Units | MW21-01 | MW21-02 | MW21-03 | MW21-03 | F. BLANK | T. BLANK | MW23-01 | MW23-11 (DUP OF MW23-01) | MW23-02 | MW23-20 (DUP OF MW23-02) | MW23-02 (2) | MW23-02 | MW23-03 | MW23-03 | T.BLANK | F.BLANK | MW23-04 | F. BLANK | T. BLANK |
|--|------------------|-------|------------|------------|------------|------------|------------|------------|------------|--------------------------|------------|--------------------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Sample Date (yyyy-mm-dd) | | | 2021-04-30 | 2021-04-30 | 2021-04-30 | 2023-08-15 | 2023-08-15 | 2023-08-15 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-09-13 | 2023-11-29 | 2023-08-14 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-08-14 | 2023-08-14 | 2023-08-14 |
| Inorganics | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Chloride (Cl-) | 1800000 | µg/L | - | 1800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| pH | NG | µg/L | - | 7.92 | - | - | - | - | - | - | - | - | 7.78 | - | - | - | - | - | - | - | - |
| Metals and Hydride Forming Metals | | | | | | | | | | | | | | | | | | | | | |
| Dissolved Antimony (Sb) | 16000 | µg/L | - | - | - | <0.50 | - | - | <0.50 | <0.50 | - | - | - | - | <0.50 | - | - | - | <0.50 | - | - |
| Dissolved Arsenic (As) | 1500 | µg/L | - | - | - | <1.0 | - | - | 1.1 | <1.0 | - | - | - | - | <1.0 | - | - | - | <1.0 | - | - |
| Dissolved Barium (Ba) | 23000 | µg/L | - | - | - | 64 | - | - | 100 | 110 | - | - | - | - | 65 | - | - | - | 76 | - | - |
| Dissolved Beryllium (Be) | 53 | µg/L | - | - | - | <0.40 | - | - | <0.40 | <0.40 | - | - | - | - | <0.40 | - | - | - | <0.40 | - | - |
| Dissolved Boron (B) | 36000 | µg/L | - | - | - | 250 | - | - | 220 | 230 | - | - | - | - | 230 | - | - | - | 95 | - | - |
| Dissolved Cadmium (Cd) | 2.1 | µg/L | - | - | - | <0.090 | - | - | <0.090 | <0.090 | - | - | - | - | <0.090 | - | - | - | <0.090 | - | - |
| Dissolved Chromium (Cr) | 640 | µg/L | - | - | - | <5.0 | - | - | <5.0 | <5.0 | - | - | - | - | <5.0 | - | - | - | <5.0 | - | - |
| Dissolved Cobalt (Co) | 52 | µg/L | - | - | - | <0.50 | - | - | <0.50 | <0.50 | - | - | - | - | 24 | - | - | - | 0.62 | - | - |
| Dissolved Copper (Cu) | 69 | µg/L | - | - | - | 3.4 | - | - | <0.90 | <0.90 | - | - | - | - | 1.4 | - | - | - | 4.7 | - | - |
| Dissolved Lead (Pb) | 20 | µg/L | - | - | - | <0.50 | - | - | <0.50 | <0.50 | - | - | - | - | <0.50 | - | - | - | <0.50 | - | - |
| Dissolved Molybdenum (Mo) | 7300 | µg/L | - | - | - | 8.9 | - | - | 0.73 | <0.50 | - | - | - | - | 6.9 | - | - | - | 1.9 | - | - |
| Dissolved Nickel (Ni) | 390 | µg/L | - | - | - | 5.5 | - | - | <1.0 | 1.2 | - | - | - | - | 6.8 | - | - | - | 2.2 | - | - |
| Dissolved Selenium (Se) | 50 | µg/L | - | - | - | <2.0 | - | - | <2.0 | <2.0 | - | - | - | - | <2.0 | - | - | - | <2.0 | - | - |
| Dissolved Silver (Ag) | 1.2 | µg/L | - | - | - | <0.090 | - | - | <0.090 | <0.090 | - | - | - | - | <0.090 | - | - | - | <0.090 | - | - |
| Dissolved Sodium (Na) | 1800000 | µg/L | - | - | - | 340000 | - | - | 550000 | 540000 | - | - | - | - | 410000 | - | - | - | 490000 | - | - |
| Dissolved Thallium (Tl) | 400 | µg/L | - | - | - | 0.38 | - | - | <0.050 | <0.050 | - | - | - | - | 0.18 | - | - | - | 0.21 | - | - |
| Dissolved Uranium (U) | 330 | µg/L | - | - | - | 1.8 | - | - | 0.48 | 0.45 | - | - | - | - | 0.74 | - | - | - | 0.82 | - | - |
| Dissolved Vanadium (V) | 200 | µg/L | - | - | - | <0.50 | - | - | <0.50 | <0.50 | - | - | - | - | <0.50 | - | - | - | <0.50 | - | - |
| Dissolved Zinc (Zn) | 890 | µg/L | - | - | - | 6.1 | - | - | <5.0 | <5.0 | - | - | - | - | <5.0 | - | - | - | <5.0 | - | - |
| Petroleum Hydrocarbons (PHCs) | | | | | | | | | | | | | | | | | | | | | |
| F1 (C6-C10) - BTEX | 420 | µg/L | 320 | 340 | <25 | <25 | - | - | 54 | 61 | 490 | 540 | - | 480 | - | 100 | <25 | <25 | <25 | - | - |
| F1 (C6-C10) | 420 | µg/L | 320 | 340 | <25 | <25 | - | - | 54 (1) | 61 (1) | 500 | 540 | - | 480 | - | 100 | <25 | <25 | <25 | - | - |
| F2 (C10-C16 Hydrocarbons) | 150 | µg/L | <100 | 370 | <100 | <100 | - | - | <100 | <100 | - | - | - | <100 | <100 | - | - | - | <100 | - | - |
| F3 (C16-C34 Hydrocarbons) | 500 | µg/L | 240 | 750 | <200 | <200 | - | - | <200 | <200 | - | - | - | <200 | <200 | - | - | - | <200 | - | - |
| F4 (C34-C50 Hydrocarbons) | 500 | µg/L | <200 | <200 | <200 | <200 | - | - | <200 | <200 | - | - | - | <200 | <200 | - | - | - | <200 | - | - |
| Polycyclic Aromatic Hydrocarbons (PAHs) | | | | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 17 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | - | - | <0.050 | - | - | - | <0.050 | - | - |
| Acenaphthylene | 1 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | - | - | <0.050 | - | - | - | <0.050 | - | - |
| Anthracene | 1 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Benzo(a)anthracene | 1.8 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Benzo(a)pyrene | 0.81 | µg/L | - | - | - | <0.0090 | - | - | <0.0090 | <0.0090 | - | - | <0.2 | - | <0.0090 | - | - | - | <0.0090 | - | - |
| Benzo(b)fluoranthene | 0.75 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Benzo(g,h,i)perylene | 0.2 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Benzo(k)fluoranthene | 0.4 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Chrysene | 0.7 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Dibenzo(a,h)anthracene | 0.4 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Fluoranthene | 44 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Fluorene | 290 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.3 | - | <0.050 | - | - | - | <0.050 | - | - |
| Indeno(1,2,3-cd)pyrene | 0.2 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| 1-Methylnaphthalene | 1500 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.3 | - | <0.050 | - | - | - | 0.12 | - | - |
| 2-Methylnaphthalene | 1500 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.3 | - | <0.050 | - | - | - | 0.16 | - | - |
| Methylnaphthalene, 2-(1-) | 1500 | µg/L | - | - | - | <0.071 | - | - | <0.071 | <0.071 | - | - | - | - | <0.071 | - | - | - | 0.28 | - | - |
| Naphthalene | 7 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.3 | - | <0.050 | - | - | - | <0.050 | - | - |
| Phenanthrene | 380 | µg/L | - | - | - | <0.030 | - | - | <0.030 | <0.030 | - | - | <0.2 | - | <0.030 | - | - | - | 0.044 | - | - |
| Pyrene | 5.7 | µg/L | - | - | - | <0.050 | - | - | <0.050 | <0.050 | - | - | <0.2 | - | <0.050 | - | - | - | <0.050 | - | - |
| Semi-Volatile Organic Compounds (SVOCs) | | | | | | | | | | | | | | | | | | | | | |
| Diethyl phthalate | 30 | µg/L | - | - | - | - | - | - | - | - | - | - | <1.0 | - | - | - | - | - | - | - | - |
| 2,4-Dichlorophenol | 3700 | µg/L | - | - | - | - | - | - | - | - | - | - | <0.30 | - | - | - | - | - | - | - | - |
| Bis(2-ethylhexyl)phthalate | 30 | µg/L | - | - | - | - | - | - | - | - | - | - | <2 | - | - | - | - | - | - | - | - |

| Sample ID | MECP Table 7 SCS | Units | MW21-01 | MW21-02 | MW21-03 | MW21-03 | F. BLANK | T. BLANK | MW23-01 | MW23-11 (DUP OF MW23-01) | MW23-02 | MW23-20 (DUP OF MW23-02) | MW23-02 (2) | MW23-02 | MW23-03 | MW23-03 | T.BLANK | F.BLANK | MW23-04 | F. BLANK | T. BLANK |
|--|------------------|-------|------------|-------------|------------|-------------|------------|------------|------------|--------------------------|------------|--------------------------|-------------|-------------|------------|------------|------------|------------|-------------|------------|------------|
| Sample Date (yyyy-mm-dd) | | | 2021-04-30 | 2021-04-30 | 2021-04-30 | 2023-08-15 | 2023-08-15 | 2023-08-15 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-09-13 | 2023-11-29 | 2023-08-14 | 2023-08-28 | 2023-08-28 | 2023-08-28 | 2023-08-14 | 2023-08-14 | 2023-08-14 |
| Volatile Organic Compounds (VOCs) | | | | | | | | | | | | | | | | | | | | | |
| Acetone (2-Propanone) | 100000 | µg/L | <50 | <50 | <10 | <10 | <10 | <10 | <10 | <10 | - | - | - | <10 | <10 | - | - | - | <10 | <10 | <10 |
| Benzene | 0.5 | µg/L | <0.20 | <0.20 | <0.20 | <0.17 | <0.20 | <0.20 | 0.22 | 0.25 | 0.33 | 0.38 | <0.20 | <0.17 | <0.20 | <0.20 | <0.20 | <0.20 | <0.17 | <0.20 | <0.20 |
| Bromodichloromethane | 67000 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| Bromoform | 5 | µg/L | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - | <1.0 | <1.0 | <1.0 | - | - | - | <1.0 | <1.0 | <1.0 |
| Bromomethane | 0.89 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| Carbon Tetrachloride | 0.2 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.19 | <0.19 | <0.20 | <0.20 | - | - | <0.19 | <0.20 | <0.19 | - | - | - | <0.20 | <0.19 | <0.19 |
| Chlorobenzene | 140 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | - | <0.20 | <0.20 | <0.20 | - | - | - | <0.20 | <0.20 | <0.20 |
| Chloroform | 2 | µg/L | <1.0 | <1.0 | <0.20 | 0.27 | <0.20 | <0.20 | 1 | 0.96 | - | - | 0.82 | 0.55 | 0.45 | - | - | - | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | 65000 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| 1,2-Dichlorobenzene | 150 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| 1,3-Dichlorobenzene | 7600 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| 1,4-Dichlorobenzene | 0.5 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| Dichlorodifluoromethane (FREON 12) | 3500 | µg/L | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - | - | <1.0 | <1.0 | - | - | - | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | 11 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | - | <0.20 | 0.26 | <0.20 | - | - | - | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | 0.5 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.49 | <0.49 | <0.50 | <0.50 | - | - | <0.49 | <0.50 | <0.49 | - | - | - | <0.50 | <0.49 | <0.49 |
| 1,1-Dichloroethylene | 0.5 | µg/L | <0.20 | 0.66 | <0.20 | <0.20 | <0.20 | <0.20 | 1.2 | 1.2 | - | - | <0.20 | 0.25 | 2 | - | - | - | <0.20 | <0.20 | <0.20 |
| cis-1,2-Dichloroethylene | 1.6 | µg/L | 220 | 860 | 1.5 | <0.50 | <0.50 | <0.50 | 630 | 590 | - | - | 16 | 33 | 940 | - | - | - | <0.50 | <0.50 | <0.50 |
| trans-1,2-Dichloroethylene | 1.6 | µg/L | 3.7 | 12 | <0.50 | <0.50 | <0.50 | <0.50 | 4.7 | 4.6 | - | - | 1.7 | 0.94 | 14 | - | - | - | <0.50 | <0.50 | <0.50 |
| 1,2-Dichloropropane | 0.58 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | - | <0.20 | <0.20 | <0.20 | - | - | - | <0.20 | <0.20 | <0.20 |
| cis-1,3-Dichloropropene | NG | µg/L | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | <0.30 | - | - | <0.30 | <0.30 | <0.30 | - | - | - | <0.30 | <0.30 | <0.30 |
| trans-1,3-Dichloropropene | NG | µg/L | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | <0.40 | - | - | <0.40 | <0.40 | <0.40 | - | - | - | <0.40 | <0.40 | <0.40 |
| 1,3-Dichloropropene (cis+trans) | 0.5 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| Ethylbenzene | 54 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Ethylene Dibromide | 0.2 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.19 | <0.19 | <0.20 | <0.20 | - | - | <0.19 | <0.20 | <0.19 | - | - | - | <0.20 | <0.19 | <0.19 |
| Hexane | 5 | µg/L | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | - | - | - | <1.0 | <1.0 | - | - | - | <1.0 | <1.0 | <1.0 |
| Methylene Chloride(Dichloromethane) | 26 | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | - | - | <2.0 | <2.0 | <2.0 | - | - | - | <2.0 | <2.0 | <2.0 |
| Methyl Ethyl Ketone (2-Butanone) | 21000 | µg/L | <50 | <50 | <10 | <10 | <10 | <10 | <10 | <10 | - | - | - | <10 | <10 | - | - | - | <10 | <10 | <10 |
| Methyl Isobutyl Ketone | 5200 | µg/L | <25 | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | - | - | - | <5.0 | <5.0 | - | - | - | <5.0 | <5.0 | <5.0 |
| Methyl t-butyl ether (MTBE) | 15 | µg/L | <2.5 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| Styrene | 43 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| 1,1,1,2-Tetrachloroethane | 1.1 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| 1,1,2,2-Tetrachloroethane | 0.5 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| Tetrachloroethylene | 0.5 | µg/L | 930 | 890 | 32 | 2.4 | <0.20 | <0.20 | 13 | 12 | - | - | 720 | 1400 | 9.6 | - | - | - | 8.4 | <0.20 | <0.20 |
| Toluene | 320 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | 0.25 | 0.27 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | 23 | µg/L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | - | - | <0.20 | <0.20 | <0.20 | - | - | - | <0.20 | <0.20 | <0.20 |
| 1,1,2-Trichloroethane | 0.5 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.40 | <0.40 | <0.50 | <0.50 | - | - | <0.40 | <0.50 | <0.40 | - | - | - | <0.50 | <0.40 | <0.40 |
| Trichloroethylene | 0.5 | µg/L | 100 | 160 | 2 | 0.72 | <0.20 | <0.20 | 110 | 110 | - | - | 44 | 120 | 23 | - | - | - | 0.65 | <0.20 | <0.20 |
| Trichlorofluoromethane (FREON 11) | 2000 | µg/L | <2.5 | <2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | - | - | <0.50 | <0.50 | <0.50 | - | - | - | <0.50 | <0.50 | <0.50 |
| Vinyl Chloride | 0.5 | µg/L | 7 | 31 | <0.20 | <0.20 | <0.20 | <0.20 | 100 | 100 | - | - | 0.96 | 4.0 | 88 | - | - | - | <0.20 | <0.20 | <0.20 |
| p+m-Xylene | NG | µg/L | <1.0 | <1.0 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.40 | <0.40 | <0.20 | <0.20 | <0.20 | <0.40 | <0.40 | <0.40 | <0.20 | <0.20 | <0.20 |
| o-Xylene | NG | µg/L | <1.0 | <1.0 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Total Xylenes | 72 | µg/L | <1.0 | <1.0 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.40 | <0.40 | <0.20 | <0.20 | <0.20 | <0.40 | <0.40 | <0.40 | <0.20 | <0.20 | <0.20 |
| Organochlorine Pesticides (OCPs) | | | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | 3.1 | µg/L | - | - | - | - | - | - | - | - | - | - | <0.005 | - | - | - | - | - | - | - | - |
| Polychlorinated Biphenyls (PCBs) | | | | | | | | | | | | | | | | | | | | | |
| Total PCBs | 0.2 | µg/L | - | - | - | - | - | - | - | - | - | - | <0.05 | - | - | - | - | - | - | - | - |

Notes

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| MECP Table 7 SCS | Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition for all Types of Property Use, medium-fine textured soil, Ontario Ministry of the Environment "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (MECP July 2011). |
| NG | No Guideline Available |
| - | Parameter Not Analyzed |
| < | Less Than Reportable Detection Limit |
| X | Exceeds MECP Table 7 SCS |
| F. Blank | Field Blank |
| T. Blank | Trip Blank |
| (1) Result reported was mainly due to chlorinated compounds eluting inside the F1 range. | |
| (2) Conducted in Support of Evaluating Potential Discharge to Municipal Sewer System for Development Purposes Only. | |



Your Project #: 02103035.000
 Site Location: 424 Churchill Ave North
 Your C.O.C. #: 953656-01-01

Attention: Colette Ogilvie

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/09/18
 Report #: R7819659
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3S1843

Received: 2023/09/13, 15:59

Sample Matrix: Water
 # Samples Received: 1

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|--|-----------------|---------------------------|--------------------------|--------------------------|--------------------------|
| ABN Compounds in Water by GC/MS (1) | 1 | 2023/09/15 | 2023/09/15 | CAM SOP-00301 | EPA 8270 m |
| Sewer Use By-Law Semivolatile Organics (1) | 1 | 2023/09/16 | 2023/09/18 | CAM SOP 00301 | EPA 8270 m |
| Total Cyanide (1) | 1 | 2023/09/15 | 2023/09/15 | CAM SOP-00457 | OMOE E3015 5 m |
| Fluoride (1) | 1 | 2023/09/14 | 2023/09/15 | CAM SOP-00449 | SM 23 4500-F C m |
| Mercury in Water by CVAA (1) | 1 | 2023/09/15 | 2023/09/18 | CAM SOP-00453 | EPA 7470A m |
| Total Metals Analysis by ICPMS (1) | 1 | 2023/09/18 | 2023/09/18 | CAM SOP-00447 | EPA 6020B m |
| E.coli, (CFU/100mL) (1) | 1 | N/A | 2023/09/14 | CAM SOP-00552 | MECP E3371 |
| Animal and Vegetable Oil and Grease (1) | 1 | N/A | 2023/09/18 | CAM SOP-00326 | EPA1664B m,SM5520B m |
| Total Oil and Grease (1) | 1 | 2023/09/17 | 2023/09/17 | CAM SOP-00326 | EPA1664B m,SM5520B m |
| OC Pesticides (Selected) & PCB (1, 2) | 1 | 2023/09/15 | 2023/09/17 | CAM SOP-00307 | EPA 8081B/ 8082A |
| OC Pesticides Summed Parameters (1) | 1 | N/A | 2023/09/15 | CAM SOP-00307 | EPA 8081B/ 8082A |
| pH (1) | 1 | 2023/09/14 | 2023/09/15 | CAM SOP-00413 | SM 4500H+ B m |
| Phenols (4AAP) (1) | 1 | N/A | 2023/09/15 | CAM SOP-00444 | OMOE E3179 m |
| Sulphate by Automated Turbidimetry (1) | 1 | N/A | 2023/09/15 | CAM SOP-00464 | SM 23 4500-SO42- E m |
| Sulphide (1) | 1 | N/A | 2023/09/15 | CAM SOP-00455 | SM 23 4500-S G m |
| Total Kjeldahl Nitrogen in Water (1) | 1 | 2023/09/14 | 2023/09/18 | CAM SOP-00938 | OMOE E3516 m |
| Total PAHs (Hamilton, Ottawa S.U.B.) (1, 3) | 1 | N/A | 2023/09/18 | CAM SOP - 00301 | |
| Mineral/Synthetic O & G (TPH Heavy Oil) (1, 4) | 1 | 2023/09/17 | 2023/09/17 | CAM SOP-00326 | EPA1664B m,SM5520F m |
| Total Suspended Solids (1) | 1 | 2023/09/15 | 2023/09/18 | CAM SOP-00428 | SM 23 2540D m |
| Volatile Organic Compounds in Water (1) | 1 | N/A | 2023/09/15 | CAM SOP-00228 | EPA 8260D |
| Non-Routine Volatile Organic Compounds (1) | 1 | N/A | 2023/09/15 | CAM SOP-00226 | EPA 8260D m |

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.



Your Project #: 02103035.000
Site Location: 424 Churchill Ave North
Your C.O.C. #: 953656-01-01

Attention: Colette Ogilvie

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/09/18
Report #: R7819659
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3S1843

Received: 2023/09/13, 15:59

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
- (2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane
- (3) Total PAHs include only those PAHs specified in the sewer use by-by-law.
- (4) Note: TPH (Heavy Oil) is equivalent to Mineral / Synthetic Oil & Grease

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

| Bureau Veritas ID | | WZE422 | | | WZE422 | | |
|--|-------|---------------------|---------|----------|---------------------|--------|----------|
| Sampling Date | | 2023/09/13 13:00 | | | 2023/09/13 13:00 | | |
| COC Number | | 953656-01-01 | | | 953656-01-01 | | |
| | UNITS | MW23-2 | RDL | QC Batch | MW23-2 Lab-Dup | RDL | QC Batch |
| Calculated Parameters | | | | | | | |
| Total Animal/Vegetable Oil and Grease | mg/L | <0.50 | 0.50 | 8916468 | | | |
| Inorganics | | | | | | | |
| Total Kjeldahl Nitrogen (TKN) | mg/L | 0.15 | 0.10 | 8915997 | | | |
| pH | pH | 7.78 | | 8918550 | | | |
| Phenols-4AAP | mg/L | <0.0010 | 0.0010 | 8919650 | <0.0010 | 0.0010 | 8919650 |
| Total Suspended Solids | mg/L | <10 | 10 | 8919511 | <10 | 10 | 8919511 |
| Petroleum Hydrocarbons | | | | | | | |
| Total Oil & Grease | mg/L | <0.50 | 0.50 | 8922558 | | | |
| Total Oil & Grease Mineral/Synthetic | mg/L | <0.50 | 0.50 | 8922560 | | | |
| Metals | | | | | | | |
| Mercury (Hg) | mg/L | <0.00010 | 0.00010 | 8919601 | | | |
| Total Aluminum (Al) | ug/L | 16 | 4.9 | 8922919 | | | |
| Total Antimony (Sb) | ug/L | <0.50 | 0.50 | 8922919 | | | |
| Total Arsenic (As) | ug/L | <1.0 | 1.0 | 8922919 | | | |
| Total Bismuth (Bi) | ug/L | <1.0 | 1.0 | 8922919 | | | |
| Total Boron (B) | ug/L | 200 | 10 | 8922919 | | | |
| Total Cadmium (Cd) | ug/L | <0.090 | 0.090 | 8922919 | | | |
| Total Chromium (Cr) | ug/L | <5.0 | 5.0 | 8922919 | | | |
| Total Cobalt (Co) | ug/L | 1.2 | 0.50 | 8922919 | | | |
| Total Copper (Cu) | ug/L | 3.4 | 0.90 | 8922919 | | | |
| Total Lead (Pb) | ug/L | <0.50 | 0.50 | 8922919 | | | |
| Total Manganese (Mn) | ug/L | 18 | 2.0 | 8922919 | | | |
| Total Molybdenum (Mo) | ug/L | 1.7 | 0.50 | 8922919 | | | |
| Total Nickel (Ni) | ug/L | 3.0 | 1.0 | 8922919 | | | |
| Total Phosphorus (P) | ug/L | <100 | 100 | 8922919 | | | |
| Total Selenium (Se) | ug/L | <2.0 | 2.0 | 8922919 | | | |
| Total Silver (Ag) | ug/L | <0.090 | 0.090 | 8922919 | | | |
| Total Tin (Sn) | ug/L | <1.0 | 1.0 | 8922919 | | | |
| Total Titanium (Ti) | ug/L | <5.0 | 5.0 | 8922919 | | | |
| Total Vanadium (V) | ug/L | <0.50 | 0.50 | 8922919 | | | |
| Total Zinc (Zn) | ug/L | 6.5 | 5.0 | 8922919 | | | |
| Semivolatile Organics | | | | | | | |
| 1-Methylnaphthalene | ug/L | <0.3 | 0.3 | 8921699 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

| Bureau Veritas ID | | WZE422 | | | WZE422 | | |
|--|-------|---------------------|------|----------|---------------------|-----|----------|
| Sampling Date | | 2023/09/13 13:00 | | | 2023/09/13 13:00 | | |
| COC Number | | 953656-01-01 | | | 953656-01-01 | | |
| | UNITS | MW23-2 | RDL | QC Batch | MW23-2 Lab-Dup | RDL | QC Batch |
| 2-Methylnaphthalene | ug/L | <0.3 | 0.3 | 8921699 | | | |
| Fluorene | ug/L | <0.3 | 0.3 | 8921699 | | | |
| Naphthalene | ug/L | <0.3 | 0.3 | 8921699 | | | |
| Di-N-butyl phthalate | ug/L | <2 | 2 | 8921699 | | | |
| Bis(2-ethylhexyl)phthalate | ug/L | <2 | 2 | 8921699 | | | |
| Phenanthrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Anthracene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Fluoranthene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Pyrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(a)anthracene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Chrysene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(b/j)fluoranthene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(k)fluoranthene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(a)pyrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Dibenzo(a,h)anthracene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(g,h,i)perylene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Dibenzo(a,i)pyrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Benzo(e)pyrene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Perylene | ug/L | <0.2 | 0.2 | 8921699 | | | |
| Dibenzo(a,j) acridine | ug/L | <0.4 | 0.4 | 8921699 | | | |
| 7H-Dibenzo(c,g) Carbazole | ug/L | <0.4 | 0.4 | 8921699 | | | |
| 2,4-Dichlorophenol | ug/L | <0.30 | 0.30 | 8918819 | | | |
| Benzyl butyl phthalate | ug/L | <0.50 | 0.50 | 8918819 | | | |
| Bis(2-chloroethoxy)methane | ug/L | <0.50 | 0.50 | 8918819 | | | |
| di-n-octyl phthalate | ug/L | <0.80 | 0.80 | 8918819 | | | |
| Diethyl phthalate | ug/L | <1.0 | 1.0 | 8918819 | | | |
| Indole | ug/L | <1.0 | 1.0 | 8918819 | | | |
| Calculated Parameters | | | | | | | |
| Total PAHs (18 PAHs) | ug/L | <0.96 | 0.96 | 8916470 | | | |
| Volatile Organics | | | | | | | |
| Benzene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| Bromodichloromethane | ug/L | <0.50 | 0.50 | 8916724 | | | |
| Bromoform | ug/L | <1.0 | 1.0 | 8916724 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

| Bureau Veritas ID | | WZE422 | | | WZE422 | | |
|--|-------|---------------------|------|----------|---------------------|-----|----------|
| Sampling Date | | 2023/09/13 13:00 | | | 2023/09/13 13:00 | | |
| COC Number | | 953656-01-01 | | | 953656-01-01 | | |
| | UNITS | MW23-2 | RDL | QC Batch | MW23-2 Lab-Dup | RDL | QC Batch |
| Bromomethane | ug/L | <0.50 | 0.50 | 8916724 | | | |
| Carbon Tetrachloride | ug/L | <0.19 | 0.19 | 8916724 | | | |
| Chlorobenzene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| Chloroethane | ug/L | <1.0 | 1.0 | 8916724 | | | |
| Chloroform | ug/L | 0.82 | 0.20 | 8916724 | | | |
| Chloromethane | ug/L | <5.0 | 5.0 | 8916724 | | | |
| Dibromochloromethane | ug/L | <0.50 | 0.50 | 8916724 | | | |
| 1,2-Dichlorobenzene | ug/L | <0.40 | 0.40 | 8916724 | | | |
| 1,3-Dichlorobenzene | ug/L | <0.40 | 0.40 | 8916724 | | | |
| 1,4-Dichlorobenzene | ug/L | <0.40 | 0.40 | 8916724 | | | |
| 1,1-Dichloroethane | ug/L | <0.20 | 0.20 | 8916724 | | | |
| 1,2-Dichloroethane | ug/L | <0.49 | 0.49 | 8916724 | | | |
| 1,1-Dichloroethylene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| cis-1,2-Dichloroethylene | ug/L | 16 | 0.50 | 8916724 | | | |
| trans-1,2-Dichloroethylene | ug/L | 1.7 | 0.50 | 8916724 | | | |
| 1,2-Dichloropropane | ug/L | <0.20 | 0.20 | 8916724 | | | |
| cis-1,3-Dichloropropene | ug/L | <0.30 | 0.30 | 8916724 | | | |
| trans-1,3-Dichloropropene | ug/L | <0.40 | 0.40 | 8916724 | | | |
| Ethylbenzene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| Ethylene Dibromide | ug/L | <0.19 | 0.19 | 8916724 | | | |
| Methylene Chloride(Dichloromethane) | ug/L | <2.0 | 2.0 | 8916724 | | | |
| Styrene | ug/L | <0.40 | 0.40 | 8916724 | | | |
| 1,1,1,2-Tetrachloroethane | ug/L | <0.40 | 0.40 | 8916724 | | | |
| Tetrachloroethylene | ug/L | 720 | 0.40 | 8916724 | | | |
| 1,3,5-Trimethylbenzene | ug/L | <0.20 | 0.20 | 8911263 | | | |
| Toluene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| 1,1,1-Trichloroethane | ug/L | <0.20 | 0.20 | 8916724 | | | |
| 1,1,2-Trichloroethane | ug/L | <0.40 | 0.40 | 8916724 | | | |
| Trichloroethylene | ug/L | 44 | 0.20 | 8916724 | | | |
| Trichlorofluoromethane (FREON 11) | ug/L | <0.50 | 0.50 | 8916724 | | | |
| Vinyl Chloride | ug/L | 0.96 | 0.20 | 8916724 | | | |
| p+m-Xylene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| o-Xylene | ug/L | <0.20 | 0.20 | 8916724 | | | |
| Total Xylenes | ug/L | <0.20 | 0.20 | 8916724 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

| | | | | | | | |
|--------------------------|--------------|---------------------|------------|-----------------|---------------------------|------------|-----------------|
| Bureau Veritas ID | | WZE422 | | | WZE422 | | |
| Sampling Date | | 2023/09/13 13:00 | | | 2023/09/13 13:00 | | |
| COC Number | | 953656-01-01 | | | 953656-01-01 | | |
| | UNITS | MW23-2 | RDL | QC Batch | MW23-2 Lab-Dup | RDL | QC Batch |

| Calculated Parameters | | | | | | | |
|--|-----------|--------|-------|---------|--|--|--|
| Total PCB | ug/L | <0.05 | 0.05 | 8916469 | | | |
| Pesticides & Herbicides | | | | | | | |
| Hexachlorobenzene | ug/L | <0.005 | 0.005 | 8918788 | | | |
| Microbiological | | | | | | | |
| Escherichia coli | CFU/100mL | <10 | 10 | 8917776 | | | |
| Surrogate Recovery (%) | | | | | | | |
| 2,4,6-Tribromophenol | % | 71 | | 8918819 | | | |
| 2-Fluorobiphenyl | % | 85 | | 8918819 | | | |
| 2-Fluorophenol | % | 37 | | 8918819 | | | |
| D14-Terphenyl | % | 89 | | 8918819 | | | |
| D5-Nitrobenzene | % | 94 | | 8918819 | | | |
| D5-Phenol | % | 27 | | 8918819 | | | |
| 2,4,6-Tribromophenol | % | 57 | | 8921699 | | | |
| 2-Fluorobiphenyl | % | 79 | | 8921699 | | | |
| D14-Terphenyl (FS) | % | 101 | | 8921699 | | | |
| D5-Nitrobenzene | % | 99 | | 8921699 | | | |
| D8-Acenaphthylene | % | 75 | | 8921699 | | | |
| 2,4,5,6-Tetrachloro-m-xylene | % | 66 | | 8918788 | | | |
| Decachlorobiphenyl | % | 72 | | 8918788 | | | |
| 4-Bromofluorobenzene | % | 96 | | 8916724 | | | |
| D4-1,2-Dichloroethane | % | 109 | | 8916724 | | | |
| D8-Toluene | % | 94 | | 8916724 | | | |
| 4-Bromofluorobenzene | % | 114 | | 8911263 | | | |
| D4-1,2-Dichloroethane | % | 87 | | 8911263 | | | |
| D8-Toluene | % | 111 | | 8911263 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

RESULTS OF ANALYSES OF WATER

| | | | | | | | |
|--|--------------|---------------------|------------|-----------------|---------------------------|------------|-----------------|
| Bureau Veritas ID | | WZE422 | | | WZE422 | | |
| Sampling Date | | 2023/09/13 13:00 | | | 2023/09/13 13:00 | | |
| COC Number | | 953656-01-01 | | | 953656-01-01 | | |
| | UNITS | MW23-2 | RDL | QC Batch | MW23-2 Lab-Dup | RDL | QC Batch |
| Inorganics | | | | | | | |
| Fluoride (F-) | mg/L | 0.30 | 0.10 | 8918551 | | | |
| Dissolved Sulphate (SO4) | mg/L | 130 | 1.0 | 8918530 | | | |
| Sulphide | mg/L | <0.020 | 0.020 | 8919642 | <0.020 | 0.020 | 8919642 |
| Total Cyanide (CN) | mg/L | <0.0050 | 0.0050 | 8918822 | | | |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WZE422
Sample ID: MW23-2
Matrix: Water

Collected: 2023/09/13
Shipped:
Received: 2023/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|-----------------|---------|------------|---------------|-------------------|
| ABN Compounds in Water by GC/MS | GC/MS | 8918819 | 2023/09/15 | 2023/09/15 | Kathy Horvat |
| Sewer Use By-Law Semivolatile Organics | GC/MS | 8921699 | 2023/09/16 | 2023/09/18 | Kathy Horvat |
| Total Cyanide | SKAL/CN | 8918822 | 2023/09/15 | 2023/09/15 | Prgya Panchal |
| Fluoride | ISE | 8918551 | 2023/09/14 | 2023/09/15 | Nachiketa Gohil |
| Mercury in Water by CVAA | CV/AA | 8919601 | 2023/09/15 | 2023/09/18 | Thuy Linh Nguyen |
| Total Metals Analysis by ICPMS | ICP/MS | 8922919 | 2023/09/18 | 2023/09/18 | Arefa Dabhad |
| E.coli, (CFU/100mL) | PL | 8917776 | N/A | 2023/09/14 | Soham Patel |
| Animal and Vegetable Oil and Grease | BAL | 8916468 | N/A | 2023/09/18 | Automated Statchk |
| Total Oil and Grease | BAL | 8922558 | 2023/09/17 | 2023/09/17 | Navneet Singh |
| OC Pesticides (Selected) & PCB | GC/ECD | 8918788 | 2023/09/15 | 2023/09/17 | Li Peng |
| OC Pesticides Summed Parameters | CALC | 8916469 | N/A | 2023/09/15 | Automated Statchk |
| pH | AT | 8918550 | 2023/09/14 | 2023/09/15 | Nachiketa Gohil |
| Phenols (4AAP) | TECH/PHEN | 8919650 | N/A | 2023/09/15 | Chloe Pollock |
| Sulphate by Automated Turbidimetry | KONE | 8918530 | N/A | 2023/09/15 | Massarat Jan |
| Sulphide | ISE/S | 8919642 | N/A | 2023/09/15 | Taslina Aktar |
| Total Kjeldahl Nitrogen in Water | SKAL | 8915997 | 2023/09/14 | 2023/09/18 | Rajni Tyagi |
| Total PAHs (Hamilton, Ottawa S.U.B.) | CALC | 8916470 | N/A | 2023/09/18 | Automated Statchk |
| Mineral/Synthetic O & G (TPH Heavy Oil) | BAL | 8922560 | 2023/09/17 | 2023/09/17 | Navneet Singh |
| Total Suspended Solids | BAL | 8919511 | 2023/09/15 | 2023/09/18 | Razieh Tabesh |
| Volatile Organic Compounds in Water | GC/MS | 8916724 | N/A | 2023/09/15 | Narayan Ghimire |
| Non-Routine Volatile Organic Compounds | P&T/MS | 8911263 | N/A | 2023/09/15 | Zi Wang |

Bureau Veritas ID: WZE422 Dup
Sample ID: MW23-2
Matrix: Water

Collected: 2023/09/13
Shipped:
Received: 2023/09/13

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|------------------------|-----------------|---------|------------|---------------|---------------|
| Phenols (4AAP) | TECH/PHEN | 8919650 | N/A | 2023/09/15 | Chloe Pollock |
| Sulphide | ISE/S | 8919642 | N/A | 2023/09/15 | Taslina Aktar |
| Total Suspended Solids | BAL | 8919511 | 2023/09/15 | 2023/09/18 | Razieh Tabesh |



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

| | |
|-----------|-------|
| Package 1 | 2.3°C |
|-----------|-------|

Sample WZE422 [MW23-2] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843

Report Date: 2023/09/18

QUALITY ASSURANCE REPORT

Englobe Corp.

Client Project #: 02103035.000

Site Location: 424 Churchill Ave North

Sampler Initials: JB

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|-------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 8911263 | 4-Bromofluorobenzene | 2023/09/15 | 114 | 70 - 130 | 118 | 70 - 130 | 108 | % | | | | |
| 8911263 | D4-1,2-Dichloroethane | 2023/09/15 | 81 | 70 - 130 | 87 | 70 - 130 | 86 | % | | | | |
| 8911263 | D8-Toluene | 2023/09/15 | 108 | 70 - 130 | 104 | 70 - 130 | 108 | % | | | | |
| 8916724 | 4-Bromofluorobenzene | 2023/09/15 | 99 | 70 - 130 | 98 | 70 - 130 | 98 | % | | | | |
| 8916724 | D4-1,2-Dichloroethane | 2023/09/15 | 109 | 70 - 130 | 106 | 70 - 130 | 103 | % | | | | |
| 8916724 | D8-Toluene | 2023/09/15 | 97 | 70 - 130 | 97 | 70 - 130 | 99 | % | | | | |
| 8918788 | 2,4,5,6-Tetrachloro-m-xylene | 2023/09/17 | 72 | 50 - 130 | 71 | 50 - 130 | 74 | % | | | | |
| 8918788 | Decachlorobiphenyl | 2023/09/17 | 122 | 50 - 130 | 105 | 50 - 130 | 112 | % | | | | |
| 8918819 | 2,4,6-Tribromophenol | 2023/09/15 | 89 | 10 - 130 | 91 | 10 - 130 | 68 | % | | | | |
| 8918819 | 2-Fluorobiphenyl | 2023/09/15 | 80 | 30 - 130 | 77 | 30 - 130 | 78 | % | | | | |
| 8918819 | 2-Fluorophenol | 2023/09/15 | 46 | 10 - 130 | 48 | 10 - 130 | 40 | % | | | | |
| 8918819 | D14-Terphenyl | 2023/09/15 | 95 | 30 - 130 | 93 | 30 - 130 | 89 | % | | | | |
| 8918819 | D5-Nitrobenzene | 2023/09/15 | 91 | 30 - 130 | 93 | 30 - 130 | 87 | % | | | | |
| 8918819 | D5-Phenol | 2023/09/15 | 30 | 10 - 130 | 32 | 10 - 130 | 27 | % | | | | |
| 8921699 | 2,4,6-Tribromophenol | 2023/09/18 | 88 | 10 - 130 | 82 | 10 - 130 | 55 | % | | | | |
| 8921699 | 2-Fluorobiphenyl | 2023/09/18 | 72 | 30 - 130 | 71 | 30 - 130 | 83 | % | | | | |
| 8921699 | D14-Terphenyl (FS) | 2023/09/18 | 103 | 30 - 130 | 100 | 30 - 130 | 100 | % | | | | |
| 8921699 | D5-Nitrobenzene | 2023/09/18 | 98 | 30 - 130 | 98 | 30 - 130 | 98 | % | | | | |
| 8921699 | D8-Acenaphthylene | 2023/09/18 | 76 | 30 - 130 | 76 | 30 - 130 | 77 | % | | | | |
| 8911263 | 1,3,5-Trimethylbenzene | 2023/09/15 | 114 | 60 - 140 | 108 | 60 - 140 | <0.20 | ug/L | NC | 30 | | |
| 8915997 | Total Kjeldahl Nitrogen (TKN) | 2023/09/18 | NC | 80 - 120 | 98 | 80 - 120 | <0.10 | mg/L | 20 | 20 | 96 | N/A |
| 8916724 | 1,1,1-Trichloroethane | 2023/09/15 | 94 | 70 - 130 | 95 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | 1,1,2,2-Tetrachloroethane | 2023/09/15 | 103 | 70 - 130 | 93 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | 1,1,2-Trichloroethane | 2023/09/15 | 98 | 70 - 130 | 90 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | 1,1-Dichloroethane | 2023/09/15 | 98 | 70 - 130 | 98 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | 1,1-Dichloroethylene | 2023/09/15 | 96 | 70 - 130 | 97 | 70 - 130 | <0.20 | ug/L | 5.0 | 30 | | |
| 8916724 | 1,2-Dichlorobenzene | 2023/09/15 | 92 | 70 - 130 | 87 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | 1,2-Dichloroethane | 2023/09/15 | 95 | 70 - 130 | 92 | 70 - 130 | <0.49 | ug/L | 4.8 | 30 | | |
| 8916724 | 1,2-Dichloropropane | 2023/09/15 | 97 | 70 - 130 | 94 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | 1,3-Dichlorobenzene | 2023/09/15 | 92 | 70 - 130 | 90 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | 1,4-Dichlorobenzene | 2023/09/15 | 104 | 70 - 130 | 98 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | Benzene | 2023/09/15 | 87 | 70 - 130 | 87 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843

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QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.

Client Project #: 02103035.000

Site Location: 424 Churchill Ave North

Sampler Initials: JB

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|-------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 8916724 | Bromodichloromethane | 2023/09/15 | 103 | 70 - 130 | 101 | 70 - 130 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | Bromoform | 2023/09/15 | 89 | 70 - 130 | 80 | 70 - 130 | <1.0 | ug/L | NC | 30 | | |
| 8916724 | Bromomethane | 2023/09/15 | 95 | 60 - 140 | 94 | 60 - 140 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | Carbon Tetrachloride | 2023/09/15 | 91 | 70 - 130 | 91 | 70 - 130 | <0.19 | ug/L | NC | 30 | | |
| 8916724 | Chlorobenzene | 2023/09/15 | 98 | 70 - 130 | 93 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Chloroethane | 2023/09/15 | 94 | 70 - 130 | 94 | 70 - 130 | <1.0 | ug/L | | | | |
| 8916724 | Chloroform | 2023/09/15 | 101 | 70 - 130 | 100 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Chloromethane | 2023/09/15 | 96 | 60 - 140 | 91 | 60 - 140 | <5.0 | ug/L | | | | |
| 8916724 | cis-1,2-Dichloroethylene | 2023/09/15 | 93 | 70 - 130 | 92 | 70 - 130 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | cis-1,3-Dichloropropene | 2023/09/15 | 101 | 70 - 130 | 99 | 70 - 130 | <0.30 | ug/L | NC | 30 | | |
| 8916724 | Dibromochloromethane | 2023/09/15 | 94 | 70 - 130 | 87 | 70 - 130 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | Ethylbenzene | 2023/09/15 | 89 | 70 - 130 | 85 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Ethylene Dibromide | 2023/09/15 | 96 | 70 - 130 | 89 | 70 - 130 | <0.19 | ug/L | NC | 30 | | |
| 8916724 | Methylene Chloride(Dichloromethane) | 2023/09/15 | 95 | 70 - 130 | 93 | 70 - 130 | <2.0 | ug/L | NC | 30 | | |
| 8916724 | o-Xylene | 2023/09/15 | 83 | 70 - 130 | 80 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | p+m-Xylene | 2023/09/15 | 96 | 70 - 130 | 93 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Styrene | 2023/09/15 | 98 | 70 - 130 | 93 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | Tetrachloroethylene | 2023/09/15 | 88 | 70 - 130 | 85 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Toluene | 2023/09/15 | 88 | 70 - 130 | 86 | 70 - 130 | <0.20 | ug/L | 3.0 | 30 | | |
| 8916724 | Total Xylenes | 2023/09/15 | | | | | <0.20 | ug/L | NC | 30 | | |
| 8916724 | trans-1,2-Dichloroethylene | 2023/09/15 | 90 | 70 - 130 | 91 | 70 - 130 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | trans-1,3-Dichloropropene | 2023/09/15 | 96 | 70 - 130 | 102 | 70 - 130 | <0.40 | ug/L | NC | 30 | | |
| 8916724 | Trichloroethylene | 2023/09/15 | 91 | 70 - 130 | 91 | 70 - 130 | <0.20 | ug/L | NC | 30 | | |
| 8916724 | Trichlorofluoromethane (FREON 11) | 2023/09/15 | 95 | 70 - 130 | 95 | 70 - 130 | <0.50 | ug/L | NC | 30 | | |
| 8916724 | Vinyl Chloride | 2023/09/15 | NC | 70 - 130 | 93 | 70 - 130 | <0.20 | ug/L | 1.3 | 30 | | |
| 8918530 | Dissolved Sulphate (SO4) | 2023/09/15 | NC | 75 - 125 | 101 | 80 - 120 | <1.0 | mg/L | 0.63 | 20 | | |
| 8918550 | pH | 2023/09/15 | | | 103 | 98 - 103 | | | 0.35 | N/A | | |
| 8918551 | Fluoride (F-) | 2023/09/15 | 101 | 80 - 120 | 103 | 80 - 120 | <0.10 | mg/L | NC | 20 | | |
| 8918788 | Hexachlorobenzene | 2023/09/17 | 70 | 50 - 130 | 78 | 50 - 130 | <0.005 | ug/L | 2.8 | 30 | | |
| 8918819 | 2,4-Dichlorophenol | 2023/09/15 | 85 | 10 - 130 | 86 | 10 - 130 | <0.30 | ug/L | 2.1 | 40 | | |
| 8918819 | Benzyl butyl phthalate | 2023/09/15 | 84 | 30 - 130 | 84 | 30 - 130 | <0.50 | ug/L | 1.6 | 40 | | |
| 8918819 | Bis(2-chloroethoxy)methane | 2023/09/15 | 75 | 30 - 130 | 76 | 30 - 130 | <0.50 | ug/L | 1.6 | 40 | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843

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QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.

Client Project #: 02103035.000

Site Location: 424 Churchill Ave North

Sampler Initials: JB

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|----------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 8918819 | Diethyl phthalate | 2023/09/15 | 81 | 30 - 130 | 83 | 30 - 130 | <1.0 | ug/L | 2.5 | 40 | | |
| 8918819 | di-n-octyl phthalate | 2023/09/15 | 84 | 30 - 130 | 78 | 30 - 130 | <0.80 | ug/L | 1.3 | 40 | | |
| 8918819 | Indole | 2023/09/15 | 35 | 30 - 130 | 45 | 30 - 130 | <1.0 | ug/L | 3.5 | 40 | | |
| 8918822 | Total Cyanide (CN) | 2023/09/15 | 107 | 80 - 120 | 103 | 80 - 120 | <0.0050 | mg/L | NC | 20 | | |
| 8919511 | Total Suspended Solids | 2023/09/18 | | | 101 | 85 - 115 | <10 | mg/L | NC | 20 | | |
| 8919601 | Mercury (Hg) | 2023/09/18 | 98 | 75 - 125 | 98 | 80 - 120 | <0.00010 | mg/L | NC | 20 | | |
| 8919642 | Sulphide | 2023/09/15 | 87 | 80 - 120 | 87 | 80 - 120 | <0.020 | mg/L | NC | 20 | | |
| 8919650 | Phenols-4AAP | 2023/09/15 | 104 | 80 - 120 | 103 | 80 - 120 | <0.0010 | mg/L | NC | 20 | | |
| 8921699 | 1-Methylnaphthalene | 2023/09/18 | 70 | 30 - 130 | 77 | 30 - 130 | <0.3 | ug/L | | | | |
| 8921699 | 2-Methylnaphthalene | 2023/09/18 | 61 | 30 - 130 | 68 | 30 - 130 | <0.3 | ug/L | | | | |
| 8921699 | 7H-Dibenzo(c,g) Carbazole | 2023/09/18 | 86 | 30 - 130 | 80 | 30 - 130 | <0.4 | ug/L | NC | 40 | | |
| 8921699 | Anthracene | 2023/09/18 | 86 | 30 - 130 | 86 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(a)anthracene | 2023/09/18 | 102 | 30 - 130 | 102 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(a)pyrene | 2023/09/18 | 107 | 30 - 130 | 107 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(b/j)fluoranthene | 2023/09/18 | 105 | 30 - 130 | 103 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(e)pyrene | 2023/09/18 | 103 | 30 - 130 | 104 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(g,h,i)perylene | 2023/09/18 | 105 | 30 - 130 | 106 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Benzo(k)fluoranthene | 2023/09/18 | 101 | 30 - 130 | 98 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Bis(2-ethylhexyl)phthalate | 2023/09/18 | 119 | 30 - 130 | 115 | 30 - 130 | <2 | ug/L | NC | 40 | | |
| 8921699 | Chrysene | 2023/09/18 | 98 | 30 - 130 | 99 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Dibenzo(a,h)anthracene | 2023/09/18 | 93 | 30 - 130 | 95 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Dibenzo(a,i)pyrene | 2023/09/18 | 45 | 30 - 130 | 58 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Dibenzo(a,j) acridine | 2023/09/18 | 89 | 30 - 130 | 90 | 30 - 130 | <0.4 | ug/L | NC | 40 | | |
| 8921699 | Di-N-butyl phthalate | 2023/09/18 | 97 | 30 - 130 | 93 | 30 - 130 | <2 | ug/L | NC | 40 | | |
| 8921699 | Fluoranthene | 2023/09/18 | 101 | 30 - 130 | 98 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Fluorene | 2023/09/18 | 88 | 30 - 130 | 90 | 30 - 130 | <0.3 | ug/L | | | | |
| 8921699 | Indeno(1,2,3-cd)pyrene | 2023/09/18 | 108 | 30 - 130 | 115 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Naphthalene | 2023/09/18 | 64 | 30 - 130 | 69 | 30 - 130 | <0.3 | ug/L | NC | 40 | | |
| 8921699 | Perylene | 2023/09/18 | 99 | 30 - 130 | 99 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Phenanthrene | 2023/09/18 | 86 | 30 - 130 | 87 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8921699 | Pyrene | 2023/09/18 | 102 | 30 - 130 | 100 | 30 - 130 | <0.2 | ug/L | NC | 40 | | |
| 8922558 | Total Oil & Grease | 2023/09/17 | | | 99 | 85 - 115 | <0.50 | mg/L | 0.51 | 25 | | |



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843

Report Date: 2023/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.

Client Project #: 02103035.000

Site Location: 424 Churchill Ave North

Sampler Initials: JB

| QC Batch | Parameter | Date | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | | QC Standard | |
|----------|--------------------------------------|------------|--------------|-----------|--------------|-----------|--------------|-------|-----------|-----------|-------------|-----------|
| | | | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits | % Recovery | QC Limits |
| 8922560 | Total Oil & Grease Mineral/Synthetic | 2023/09/17 | | | 97 | 85 - 115 | <0.50 | mg/L | 0.52 | 25 | | |
| 8922919 | Total Aluminum (Al) | 2023/09/18 | 97 | 80 - 120 | 105 | 80 - 120 | <4.9 | ug/L | NC | 20 | | |
| 8922919 | Total Antimony (Sb) | 2023/09/18 | 106 | 80 - 120 | 104 | 80 - 120 | <0.50 | ug/L | NC | 20 | | |
| 8922919 | Total Arsenic (As) | 2023/09/18 | 102 | 80 - 120 | 99 | 80 - 120 | <1.0 | ug/L | NC | 20 | | |
| 8922919 | Total Bismuth (Bi) | 2023/09/18 | 98 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | NC | 20 | | |
| 8922919 | Total Boron (B) | 2023/09/18 | 97 | 80 - 120 | 97 | 80 - 120 | <10 | ug/L | NC | 20 | | |
| 8922919 | Total Cadmium (Cd) | 2023/09/18 | 100 | 80 - 120 | 98 | 80 - 120 | <0.090 | ug/L | NC | 20 | | |
| 8922919 | Total Chromium (Cr) | 2023/09/18 | 99 | 80 - 120 | 95 | 80 - 120 | <5.0 | ug/L | NC | 20 | | |
| 8922919 | Total Cobalt (Co) | 2023/09/18 | 98 | 80 - 120 | 93 | 80 - 120 | <0.50 | ug/L | NC | 20 | | |
| 8922919 | Total Copper (Cu) | 2023/09/18 | 105 | 80 - 120 | 100 | 80 - 120 | <0.90 | ug/L | NC | 20 | | |
| 8922919 | Total Lead (Pb) | 2023/09/18 | 102 | 80 - 120 | 102 | 80 - 120 | <0.50 | ug/L | NC | 20 | | |
| 8922919 | Total Manganese (Mn) | 2023/09/18 | 100 | 80 - 120 | 98 | 80 - 120 | <2.0 | ug/L | 2.2 | 20 | | |
| 8922919 | Total Molybdenum (Mo) | 2023/09/18 | 110 | 80 - 120 | 101 | 80 - 120 | <0.50 | ug/L | NC | 20 | | |
| 8922919 | Total Nickel (Ni) | 2023/09/18 | 97 | 80 - 120 | 96 | 80 - 120 | <1.0 | ug/L | NC | 20 | | |
| 8922919 | Total Phosphorus (P) | 2023/09/18 | 99 | 80 - 120 | 94 | 80 - 120 | <100 | ug/L | | | | |
| 8922919 | Total Selenium (Se) | 2023/09/18 | 102 | 80 - 120 | 104 | 80 - 120 | <2.0 | ug/L | NC | 20 | | |
| 8922919 | Total Silver (Ag) | 2023/09/18 | 103 | 80 - 120 | 98 | 80 - 120 | <0.090 | ug/L | NC | 20 | | |
| 8922919 | Total Tin (Sn) | 2023/09/18 | 104 | 80 - 120 | 100 | 80 - 120 | <1.0 | ug/L | NC | 20 | | |
| 8922919 | Total Titanium (Ti) | 2023/09/18 | 101 | 80 - 120 | 101 | 80 - 120 | <5.0 | ug/L | NC | 20 | | |
| 8922919 | Total Vanadium (V) | 2023/09/18 | 96 | 80 - 120 | 93 | 80 - 120 | <0.50 | ug/L | NC | 20 | | |
| 8922919 | Total Zinc (Zn) | 2023/09/18 | 101 | 80 - 120 | 99 | 80 - 120 | <5.0 | ug/L | NC | 20 | | |

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Soham Patel, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5717 www.bvna.com

RUSH

Received in Ottawa

CHAIN OF CUSTODY RECORD

| | | | | | | | |
|---------------------------------------|-------------------------------|--|----------------------|-----------------------------|-----------------|-----------------------------|------------------|
| INVOICE TO: | | REPORT TO: | | PROJECT INFORMATION: | | Laboratory Use Only: | |
| Company Name: #3824 Englobe Corp. | Company Name: | Attention: Colette Ogilvie | Quotation #: C30975 | Bureau Veritas Job #: | Bottle Order #: | 953666 | |
| Attention: Accounts Payable | Attention: | Address: | P.O. #: 02103035.000 | Project Name: 424 Churchill | | COC #: | Project Manager: |
| Address: 2713 Lancaster Road Unit 101 | Address: | Tel: cc: Jim.Brooks@englobe.com | Project: | Site #: Jim Brooks | | Katherine Szozda | |
| Ottawa ON K1B 5R6 | Tel: (613) 853-9570 | Email: colette.ogilvie@englobecorp.com | Sampled By: | C#953656-01-01 | | Barcode | |
| Fax: | Email: ap-ONT@englobecorp.com | | | | | | |

| MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY | | | | | | ANALYSIS REQUESTED (PLEASE BE SPECIFIC) | | | | | | | | | | Turnaround Time (TAT) Required: Please provide advance notice for rush projects | | | | | | |
|--|-------------------------------------|--------------------------------------|----------------------------------|---|--------|--|---------------------------------|--|--|--|--|--|--|--|--|---|--|--|--|--|--------------|----------|
| Regulation 153 (2011) | | Other Regulations | | Special Instructions | | | | | | | | | | | | Regular (Standard) TAT: | | | | | | |
| <input type="checkbox"/> Table 1 | <input type="checkbox"/> Res/Park | <input type="checkbox"/> Medium/Fine | <input type="checkbox"/> CCME | <input type="checkbox"/> Sanitary Sewer Bylaw | | | | | | | | | | | | (will be applied if Rush TAT is not specified): | | | | | | |
| <input type="checkbox"/> Table 2 | <input type="checkbox"/> Ind/Comm | <input type="checkbox"/> Coarse | <input type="checkbox"/> Reg 558 | <input type="checkbox"/> Storm Sewer Bylaw | | | | | | | | | | | | Standard TAT = 5-7 Working days for most tests. | | | | | | |
| <input type="checkbox"/> Table 3 | <input type="checkbox"/> Agri/Other | <input type="checkbox"/> For RSC | <input type="checkbox"/> MISA | Municipality | | | | | | | | | | | | Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. | | | | | | |
| <input type="checkbox"/> Table | | | <input type="checkbox"/> PWQO | <input type="checkbox"/> Reg 406 Table | | | | | | | | | | | | Job Specific Rush TAT (if applies to entire submission) | | | | | | |
| Include Criteria on Certificate of Analysis (Y/N)? | | | | | | | | | | | | | | | | Date Required: _____ Time Required: _____ | | | | | | |
| | | | | | | | | | | | | | | | | Rush Confirmation Number: _____ (call lab for #) | | | | | | |
| 1 | Sample Barcode Label | Sample (Location) Identification | Date Sampled | Time Sampled | Matrix | Field Filtered (please circle): Metals / Hg / Cr VI | Reduced Ottawa Sewer Parameters | | | | | | | | | | | | | | # of Bottles | Comments |
| | | MW 23-7 | 13-Sep-2023 | 1300 | GW | M/A | X | | | | | | | | | | | | | | 18 | |
| 2 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |

13-Sep-23 15:59
Katherine Szozda
C3S1843

| | | | | | | | | | | | | | |
|--------------------------------------|--|------------------|------|--------------------------------|--|------------------|-------|-------------------------------|----------------|--------------------------|----------------------|-----|----|
| * RELINQUISHED BY: (Signature/Print) | | Date: (YY/MM/DD) | Time | RECEIVED BY: (Signature/Print) | | Date: (YY/MM/DD) | Time | # jars used and not submitted | ICE PACKS | Laboratory Use Only | | | |
| Jim Brooks | | 23/09/13 | 1430 | Samuel Durand | | 2023/09/13 | 15:59 | | Time Sensitive | Temperature (°C) on Recl | Custody Seal Present | Yes | No |
| | | | | ANERJ | | 2023/09/14 | 08:45 | | | | Intact | | |

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COCC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client
4/2/1 onice

Appendix E

Construction-Related Groundwater Inflow Estimates



eNGLOBE

| Proposed Building Excavation | | | | | | | | | | | |
|--|---|--------------------------|--|---------------------------|---------------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------|---------------------|
| Method: Dupuit-Forcheimer Equation - Worst-Case Scenario Estimate | | | | | | | | | | | |
| To calculate flow from a point source in an unconfined aquifer: | | | | | | | | | | | |
| Equation | $Q = \frac{\pi K (H^2 - h_w^2)}{\ln \frac{R_o}{r_w}}$ | | | | | | | | | | |
| Where: | | | | | | | | | | | |
| Q = | Pumping Rate (m ³ /s) | | | | | | | | | | |
| K = | Hydraulic Conductivity (m/s) | | | | | | | | | | |
| H = | Hydraulic head of the original water table (m) | | | | | | | | | | |
| h _w = | Hydraulic head at maximum dewatering (m) | | | | | | | | | | |
| R _o = | Radius of influence of Well or Point Source (m) | | | | | | | | | | |
| r _w = | Equivalent radius of the well (m) | | | | | | | | | | |
| To calculate the equivalent radius of influence for a Well or Point Source. (Approximated using the Sichart and Kryieleis Method): | | | | | | | | | | | |
| Equation | $R_o = 3000(H - h_w)\sqrt{K}$ | | | | | | | | | | |
| Where: | | | | | | | | | | | |
| R _o = | Radius of Influence for a radial flow structure (m) | | | | | | | | | | |
| K = | Hydraulic Conductivity (m/s) | | | | | | | | | | |
| H = | Initial Groundwater Level (m) | | | | | | | | | | |
| h _w = | Groundwater Level at the Base of the Excavation (m) | | | | | | | | | | |
| To calculate the equivalent radius of the well: | | | | | | | | | | | |
| Equation | $r_w = \sqrt{\frac{ab}{\pi}}$ | | | | | | | | | | |
| Where: | | | | | | | | | | | |
| r _w = | Equivalent radius of the well (m) | | | | | | | | | | |
| a = | Length of excavation area (m) | | | | | | | | | | |
| b = | Width of excavation area (m) | | | | | | | | | | |
| Parameters | | | | | | | | | | | |
| Excavation Parameters | | | | Aquifer Parameters | | | Calculated Parameters | | | | |
| Excavation Length, a (m) | Excavation Width, b (m) | Excavation Depth (m bgs) | Depth Requiring Dewatering (m bgs) | Depth to Aquitard (m bgs) | Groundwater Level (m bgs) | K (m/s) | H (m) | h _w (m) | r _w (m) | R _o (m) | R _{o*} (m) |
| 29.7 | 41.2 | 12 | 12.5 | 14 | 5.71 | 5.51E-05 | 8.29 | 1.5 | 19.74 | 151.21 | 170.95 |
| R _{o*} (m) = R _o + r _w (When R _o estimate is within excavation) | | | | | | | | | | | |
| Dewatering Calculations | | | | | | Incidental Precipitation | | | | | |
| Q = | 0.005331 | m ³ /s | GW Flow Rate per Second | | | | | | | | |
| Q = | 460.58 | m ³ /day | GW Flow Rate per day | | | | | | | | |
| Q = | 460,579 | L/day | GW Flow Rate | | | | | | | | |
| 2 Q = | 921,158 | L/day | GW Flow Rate with 2x Safety Factor | | | | | | | | |
| Q = | 1,061,738 | L/day | Total Volumes with Incidental Precipitation Volume | | | | | | | | |
| Precipitation (m) | | 0.1148 | | | | | | | | | |
| Excavation Area (m ²) | | 1225 | | | | | | | | | |
| Precipitation Volume (m ³ /day) | | 141 | | | | | | | | | |
| Precipitation Volume (L/day) | | 140,580 | | | | | | | | | |

| Proposed Building Excavation | | | | | | | | | | | | |
|--|---|---------------------|--|---------------------------|---------------------------|----------|-----------------------|--------------------|--------------------|--------------------|---------------------|--|
| Method: Dupuit-Forscheimer Equation - Average Conditions Case Scenario Estimate | | | | | | | | | | | | |
| To calculate flow from a point source in an unconfined aquifer: | | | | | | | | | | | | |
| Equation | $Q = \frac{\pi K (H^2 - h_w^2)}{\ln \frac{R_o}{r_w}}$ | | | | | | | | | | | |
| Where: | | | | | | | | | | | | |
| Q = | Pumping Rate (m ³ /s) | | | | | | | | | | | |
| K = | Hydraulic Conductivity (m/s) | | | | | | | | | | | |
| H = | Hydraulic head of the original water table (m) | | | | | | | | | | | |
| h _w = | Hydraulic head at maximum dewatering (m) | | | | | | | | | | | |
| R _o = | Radius of influence of Well or Point Source (m) | | | | | | | | | | | |
| r _w = | Equivalent radius of the well (m) | | | | | | | | | | | |
| To calculate the equivalent radius of influence for a Well or Point Source. (Approximated using the Sichart and Kryieleis Method): | | | | | | | | | | | | |
| Equation | $R_o = 3000(H - h_w)\sqrt{K}$ | | | | | | | | | | | |
| Where: | | | | | | | | | | | | |
| R _o = | Radius of Influence for a radial flow structure (m) | | | | | | | | | | | |
| K = | Hydraulic Conductivity (m/s) | | | | | | | | | | | |
| H = | Initial Groundwater Level (m) | | | | | | | | | | | |
| h _w = | Groundwater Level at the Base of the Excavation (m) | | | | | | | | | | | |
| To calculate the equivalent radius of the well: | | | | | | | | | | | | |
| Equation | $r_w = \sqrt{\frac{ab}{\pi}}$ | | | | | | | | | | | |
| Where: | | | | | | | | | | | | |
| r _w = | Equivalent radius of the well (m) | | | | | | | | | | | |
| a = | Length of excavation area (m) | | | | | | | | | | | |
| b = | Width of excavation area (m) | | | | | | | | | | | |
| Parameters | | | | | | | | | | | | |
| Excavation Parameters | | | | Aquifer Parameters | | | Calculated Parameters | | | | | |
| Length, a (m) | Width, b (m) | Depth (m bgs) | Depth Requiring Dewatering (m bgs) | Depth to Aquitard (m bgs) | Groundwater Level (m bgs) | K (m/s) | H (m) | h _w (m) | r _w (m) | R _o (m) | R _{o'} (m) | |
| 29.7 | 41.2 | 12 | 12.5 | 14 | 6.30 | 1.14E-06 | 7.70 | 1.5 | 19.74 | 19.86 | 39.60 | |
| R _{o'} (m) = R _o + r _w (When R _o estimate is within excavation) | | | | | | | | | | | | |
| Dewatering Calculations | | | | Incidental Precipitation | | | | | | | | |
| Q = | 0.000293 | m ³ /s | GW Flow Rate per Second | | | | | | | | | |
| Q = | 25.35 | m ³ /day | GW Flow Rate per day | | | | | | | | | |
| Q = | 25,349 | L/day | GW Flow Rate | | | | | | | | | |
| 2 Q = | 50,699 | L/day | GW Flow Rate with 2x Safety Factor | | | | | | | | | |
| Q = | 191,279 | L/day | Total Volumes with Incidental Precipitation Volume | | | | | | | | | |
| Precipitation (m) | | 0.1148 | | | | | | | | | | |
| Excavation Area (m ²) | | 1225 | | | | | | | | | | |
| Precipitation Volume (m ³ /day) | | 141 | | | | | | | | | | |
| Precipitation Volume (L/day) | | 140,580 | | | | | | | | | | |

Appendix F

ERIS EcoLog Report



eNGLOBE



DATABASE REPORT

Project Property: *Phase I ESA - 424 Churchill Ave N, Ottawa,
ON
424 Churchill Avenue North
Ottawa ON K1Z 5C8*

Project No:

Report Type: *Quote - Custom-Build Your Own Report*

Order No: *21032600178*

Requested by: *DST Consulting Engineers Inc.*

Date Completed: *March 31, 2021*

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Executive Summary

Property Information:

Project Property: *Phase I ESA - 424 Churchill Ave N, Ottawa, ON
424 Churchill Avenue North Ottawa ON K1Z 5C8*

Project No:

Order Information:

Order No: *21032600178*
Date Requested: *March 26, 2021*
Requested by: *DST Consulting Engineers Inc.*
Report Type: *Quote - Custom-Build Your Own Report*

Historical/Products:

City Directory Search *CD - Subject Site plus 5 Adjacent Properties*
Insurance Products *Fire Insurance Maps/Inspection Reports/Site Plans*

Executive Summary: Report Summary

| <i>Database</i> | <i>Name</i> | <i>Searched</i> | <i>Project Property</i> | <i>Boundary to 0.25km</i> | <i>Total</i> |
|-----------------|--|-----------------|-------------------------|---------------------------|--------------|
| AAGR | <i>Abandoned Aggregate Inventory</i> | N | - | - | - |
| AGR | <i>Aggregate Inventory</i> | N | - | - | - |
| AMIS | <i>Abandoned Mine Information System</i> | N | - | - | - |
| ANDR | <i>Anderson's Waste Disposal Sites</i> | Y | 0 | 0 | 0 |
| AST | <i>Aboveground Storage Tanks</i> | N | - | - | - |
| AUWR | <i>Automobile Wrecking & Supplies</i> | N | - | - | - |
| BORE | <i>Borehole</i> | N | - | - | - |
| CA | <i>Certificates of Approval</i> | N | - | - | - |
| CDRY | <i>Dry Cleaning Facilities</i> | Y | 1 | 0 | 1 |
| CFOT | <i>Commercial Fuel Oil Tanks</i> | Y | 0 | 0 | 0 |
| CHEM | <i>Chemical Manufacturers and Distributors</i> | N | - | - | - |
| CHM | <i>Chemical Register</i> | N | - | - | - |
| CNG | <i>Compressed Natural Gas Stations</i> | N | - | - | - |
| COAL | <i>Inventory of Coal Gasification Plants and Coal Tar Sites</i> | Y | 0 | 0 | 0 |
| CONV | <i>Compliance and Convictions</i> | N | - | - | - |
| CPU | <i>Certificates of Property Use</i> | N | - | - | - |
| DRL | <i>Drill Hole Database</i> | N | - | - | - |
| DTNK | <i>Delisted Fuel Tanks</i> | N | - | - | - |
| EASR | <i>Environmental Activity and Sector Registry</i> | N | - | - | - |
| EBR | <i>Environmental Registry</i> | N | - | - | - |
| ECA | <i>Environmental Compliance Approval</i> | N | - | - | - |
| EEM | <i>Environmental Effects Monitoring</i> | N | - | - | - |
| EHS | <i>ERIS Historical Searches</i> | N | - | - | - |
| EIIS | <i>Environmental Issues Inventory System</i> | N | - | - | - |
| EMHE | <i>Emergency Management Historical Event</i> | N | - | - | - |
| EPAR | <i>Environmental Penalty Annual Report</i> | N | - | - | - |
| EXP | <i>List of Expired Fuels Safety Facilities</i> | Y | 0 | 3 | 3 |
| FCON | <i>Federal Convictions</i> | N | - | - | - |
| FCS | <i>Contaminated Sites on Federal Land</i> | N | - | - | - |
| FOFT | <i>Fisheries & Oceans Fuel Tanks</i> | N | - | - | - |
| FRST | <i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i> | N | - | - | - |
| FST | <i>Fuel Storage Tank</i> | Y | 0 | 3 | 3 |
| FSTH | <i>Fuel Storage Tank - Historic</i> | Y | 0 | 2 | 2 |
| GEN | <i>Ontario Regulation 347 Waste Generators Summary</i> | Y | 14 | 84 | 98 |
| GHG | <i>Greenhouse Gas Emissions from Large Facilities</i> | N | - | - | - |
| HINC | <i>TSSA Historic Incidents</i> | Y | 0 | 2 | 2 |

| Database | Name | Searched | Project Property | Boundary to 0.25km | Total |
|-----------------|--|-----------------|-------------------------|---------------------------|--------------|
| IAFT | <i>Indian & Northern Affairs Fuel Tanks</i> | N | - | - | - |
| INC | <i>Fuel Oil Spills and Leaks</i> | Y | 0 | 1 | 1 |
| LIMO | <i>Landfill Inventory Management Ontario</i> | N | - | - | - |
| MINE | <i>Canadian Mine Locations</i> | N | - | - | - |
| MNR | <i>Mineral Occurrences</i> | N | - | - | - |
| NATE | <i>National Analysis of Trends in Emergencies System (NATES)</i> | N | - | - | - |
| NCPL | <i>Non-Compliance Reports</i> | N | - | - | - |
| NDFT | <i>National Defense & Canadian Forces Fuel Tanks</i> | N | - | - | - |
| NDSP | <i>National Defense & Canadian Forces Spills</i> | N | - | - | - |
| NDWD | <i>National Defence & Canadian Forces Waste Disposal Sites</i> | N | - | - | - |
| NEBI | <i>National Energy Board Pipeline Incidents</i> | N | - | - | - |
| NEBP | <i>National Energy Board Wells</i> | N | - | - | - |
| NEES | <i>National Environmental Emergencies System (NEES)</i> | N | - | - | - |
| NPCB | <i>National PCB Inventory</i> | Y | 0 | 0 | 0 |
| NPRI | <i>National Pollutant Release Inventory</i> | N | - | - | - |
| OGWE | <i>Oil and Gas Wells</i> | N | - | - | - |
| OOGW | <i>Ontario Oil and Gas Wells</i> | N | - | - | - |
| OPCB | <i>Inventory of PCB Storage Sites</i> | Y | 0 | 0 | 0 |
| ORD | <i>Orders</i> | N | - | - | - |
| PAP | <i>Canadian Pulp and Paper</i> | N | - | - | - |
| PCFT | <i>Parks Canada Fuel Storage Tanks</i> | N | - | - | - |
| PES | <i>Pesticide Register</i> | N | - | - | - |
| PINC | <i>Pipeline Incidents</i> | Y | 0 | 7 | 7 |
| PRT | <i>Private and Retail Fuel Storage Tanks</i> | Y | 0 | 1 | 1 |
| PTTW | <i>Permit to Take Water</i> | N | - | - | - |
| REC | <i>Ontario Regulation 347 Waste Receivers Summary</i> | Y | 0 | 0 | 0 |
| RSC | <i>Record of Site Condition</i> | Y | 0 | 1 | 1 |
| RST | <i>Retail Fuel Storage Tanks</i> | Y | 0 | 0 | 0 |
| SCT | <i>Scott's Manufacturing Directory</i> | Y | 0 | 15 | 15 |
| SPL | <i>Ontario Spills</i> | Y | 0 | 16 | 16 |
| SRDS | <i>Wastewater Discharger Registration Database</i> | N | - | - | - |
| TANK | <i>Anderson's Storage Tanks</i> | Y | 0 | 0 | 0 |
| TCFT | <i>Transport Canada Fuel Storage Tanks</i> | N | - | - | - |
| VAR | <i>Variances for Abandonment of Underground Storage Tanks</i> | Y | 0 | 0 | 0 |
| WDS | <i>Waste Disposal Sites - MOE CA Inventory</i> | Y | 0 | 0 | 0 |
| WDSH | <i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i> | Y | 0 | 0 | 0 |
| WWIS | <i>Water Well Information System</i> | N | - | - | - |
| Total: | | | 15 | 135 | 150 |

Executive Summary: Site Report Summary - Project Property

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|-------------------|-----------|--------------------------|---|---------------------|----------------------|--------------------|
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1N 6B5 | ENE/0.0 | -0.14 | 38 |
| 1 | GEN | LAUNDRY LAND 24-215 | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 38 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 38 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 39 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 39 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 39 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | ENE/0.0 | -0.14 | 39 |
| 1 | GEN | LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON | ENE/0.0 | -0.14 | 40 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev diff (m)</i> | <i>Page Number</i> |
|-------------------|-----------|--------------------------|---|---------------------|----------------------|--------------------|
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 40 |
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 40 |
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 41 |
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 41 |
| 1 | CDRY | Laundry Land Cleaning | 424 Churchill Ave N Ottawa ON K1Z5C8 | ENE/0.0 | -0.14 | 41 |
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 41 |
| 1 | GEN | LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | ENE/0.0 | -0.14 | 42 |

Executive Summary: Site Report Summary - Surrounding Properties

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|-------------------|-----------|---------------------------------------|--|---------------------|----------------------|--------------------|
| 2 | GEN | Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON | WSW/16.0 | -0.05 | 42 |
| 2 | GEN | Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | WSW/16.0 | -0.05 | 42 |
| 2 | GEN | Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | WSW/16.0 | -0.05 | 43 |
| 2 | GEN | Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | WSW/16.0 | -0.05 | 43 |
| 3 | SPL | Enbridge Gas Distribution Inc. | 412 & 414 Churchill Ave. Ottawa ON | NNW/30.9 | -0.14 | 43 |
| 3 | INC | | 412 & 414 Churchill Avenue, Ottawa ON | NNW/30.9 | -0.14 | 44 |
| 4 | GEN | ALBERT & SON ENGRAVERS | 412B CHURCHILL AVE. OTTAWA ON K1Z 5C6 | NNW/30.9 | -0.14 | 44 |
| 5 | GEN | PEARL CLEANERS | 354B RICHMOND ROAD OTTAWA ON K2A 0E8 | NW/48.7 | -1.10 | 45 |
| 6 | GEN | VELO SPORTABLE CYCLE | 358 RICHMOND ROAD OTTAWA ON K2A 0E8 | WNW/51.9 | -1.04 | 45 |
| 6 | GEN | 1534244 Ontario Inc | 358 Richmond Road Ottawa ON | WNW/51.9 | -1.04 | 46 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 46 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 46 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|-------------------|-----------|---|---|---------------------|----------------------|--------------------|
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 46 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 47 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON | SSE/59.9 | 1.64 | 47 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 47 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 48 |
| 7 | GEN | Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 48 |
| 7 | GEN | Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 48 |
| 7 | GEN | Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 49 |
| 7 | GEN | Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | SSE/59.9 | 1.64 | 49 |
| 8 | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON | W/62.6 | -1.03 | 50 |
| 8 | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | 50 |
| 8 | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | 50 |
| 8 | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | 50 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|---------------------------|-----------|------------------------------------|---|---------------------|----------------------|---------------------------|
| <u>8</u> | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | <u>51</u> |
| <u>8</u> | GEN | Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | <u>51</u> |
| <u>8</u> | GEN | Mountain Equipment Co-op Ottawa | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | <u>51</u> |
| <u>8</u> | GEN | Mountain Equipment Co-op Ottawa | 366 Richmond Road Ottawa ON K2A 0E8 | W/62.6 | -1.03 | <u>52</u> |
| <u>9</u> | GEN | WESTBOROUGH PHARMASAVE | 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | NNW/71.6 | -1.02 | <u>52</u> |
| <u>9</u> | GEN | WESTBORO PHARMACY LTD | WESTBORO PHARMACY LIMITED 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | NNW/71.6 | -1.02 | <u>52</u> |
| <u>10</u> | SCT | BlackCherry Digital Media Inc. | 346 Richmond Rd Suite 210 Ottawa ON K2A 0E8 | NNW/72.0 | -1.02 | <u>53</u> |
| <u>11</u> | GEN | 561391 Ontario Inc. | 350 Richmond Road Ottawa ON K2A 0E8 | NNW/72.6 | -1.02 | <u>53</u> |
| <u>12</u> | SPL | PRIVATE RESIDENCE | 518 BYRON AVE. STORAGE TANK/BARREL OTTAWA CITY ON K2A 0E3 | SW/78.9 | 0.27 | <u>53</u> |
| <u>13</u> | SCT | Valberg Imaging | 322 Richmond Rd Ottawa ON K1Z 6X6 | NNE/84.6 | -0.11 | <u>54</u> |
| <u>14</u> | GEN | FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | WSW/87.9 | -0.58 | <u>54</u> |
| <u>14</u> | GEN | FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | WSW/87.9 | -0.58 | <u>54</u> |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|---|---|---------------------|----------------------|--------------------|
| 14 | GEN | FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | WSW/87.9 | -0.58 | 54 |
| 15 | GEN | JOSEPH C. GAFFNEY | 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | W/93.0 | -1.01 | 55 |
| 15 | GEN | JOSEPH C. GAFFNEY 22-433 | 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | W/93.0 | -1.01 | 55 |
| 16 | HINC | | 343 RICHMOND ROAD Ottawa ON K2A 0E7 | NNW/96.6 | -1.04 | 55 |
| 17 | GEN | HYBRID PHRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | NNE/105.6 | -1.17 | 56 |
| 17 | GEN | HYBRID PHRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | NNE/105.6 | -1.17 | 56 |
| 17 | GEN | HYBRID PHRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | NNE/105.6 | -1.17 | 56 |
| 18 | GEN | First General Services (URA) | 528 Byron St Ottawa ON K2A 0E3 | SW/121.4 | -0.05 | 57 |
| 19 | RSC | Mr. Arnold Midgley, The Trustees of Kitchissippi United Church | 450 Churchill Avenue North, Ottawa, Ontario, K1Z 5E2 ON K1Z 5E2 | SSE/121.9 | 2.46 | 57 |
| 20 | SCT | Forbie Activewear | 314 Richmond Rd Ottawa ON K1Z 6X6 | NNE/124.6 | -1.17 | 57 |
| 21 | SPL | | 386 Richmond Rd S21 RESIDENCE<UNOFFICIAL> Ottawa ON K2A 0E8 | W/135.1 | -0.96 | 58 |
| 21 | GEN | Ottawa Carleton Construction Group Ltd. | 386 Richmond Road Ottawa ON K2A 0E8 | W/135.1 | -0.96 | 58 |
| 22 | SPL | BANK OF NOVA SCOTIA | 388 RICHMOND ROAD BRANCH 388 RICHMOND ST, OTTAWA OTTAWA CITY ON K2A 0E8 | W/141.0 | -1.05 | 58 |

| <i>Map Key</i> | <i>DB</i> | <i>Company/Site Name</i> | <i>Address</i> | <i>Dir/Dist (m)</i> | <i>Elev Diff (m)</i> | <i>Page Number</i> |
|--------------------|-----------|---------------------------------|---|---------------------|----------------------|--------------------|
| 22 | SPL | PRIVATE BUSINESS | 388 RICHMOND RD. OTTAWA BANK OF NOVA SCOTIA STORAGE TANK OTTAWA CITY ON K2A 0E8 | W/141.0 | -1.05 | 59 |
| 22 | SPL | PRIVATE BUSINESS | BANK OF NOVA SCOTIA, 388 RICHMOND ST STORAGE TANK OTTAWA CITY ON K2A 0E8 | W/141.0 | -1.05 | 59 |
| 22 | SPL | | 388 Richmond Rd. Ottawa ON K2A 0E8 | W/141.0 | -1.05 | 60 |
| 23 | PRT | TWENTY FIRST CENTURY MOTORS INC | 319 RICHMOND RD OTTAWA ON K1Z6X7 | N/147.0 | -1.21 | 60 |
| 23 | FSTH | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA ON K1Z 6X7 | N/147.0 | -1.21 | 61 |
| 23 | FSTH | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA ON K1Z 6X7 | N/147.0 | -1.21 | 61 |
| 23 | GEN | Avenues Garage Ltd. | 319 Richmond Rd Ottawa ON | N/147.0 | -1.21 | 62 |
| 23 | EXP | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 62 |
| 23 | EXP | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 62 |
| 23 | EXP | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 63 |
| 23 | FST | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 63 |
| 23 | FST | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 63 |

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| 23 | FST | AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | N/147.0 | -1.21 | 64 |
| 24 | GEN | Cassone Construction | 300 Richmond Rd. Ottawa ON | NE/148.6 | -1.09 | 64 |
| 25 | GEN | AL PARSONS (OUT OF BUSINESS) | 376 MADISON AVE. OTTAWA ON K2A 0B7 | WNW/159.8 | -2.04 | 65 |
| 25 | GEN | AL PARSONS (OUT OF BUSINESS) 02-233 | 376 MADISON AVE. OTTAWA ON K2A 0B7 | WNW/159.8 | -2.04 | 65 |
| 26 | SPL | PRIVATE RESIDENCE | HOME AT 389 DANFORTH AVE FURNACE OIL TANK FURNACE OIL TANK OTTAWA CITY ON K2A 0E1 | WSW/162.6 | -1.07 | 65 |
| 27 | SCT | GEVC Interactive Inc. | 311 Richmond Rd Suite 204 Ottawa ON K1Z 6X3 | NNE/164.4 | -0.97 | 66 |
| 28 | PINC | ENBRIDGE GAS INC | 401 EDEN AVE.,OTTAWA,ON,K1Z 5J1,CA ON | NE/169.5 | -0.94 | 66 |
| 29 | SCT | Imagnan Corp. | 376 Churchill Ave N Suite 107 Ottawa ON K1Z 5C3 | NW/173.9 | -1.95 | 66 |
| 29 | SCT | C.J.T. Surplus Equipment Ltd. | 376 Churchill Ave N Suite 306 Ottawa ON K1Z 5C3 | NW/173.9 | -1.95 | 66 |
| 29 | GEN | regional elevator | 376 churchill road ottawa ON | NW/173.9 | -1.95 | 67 |
| 30 | SCT | Gold Cast | 377 Churchill Ave N Ottawa ON K1Z 5C4 | N/177.4 | -2.05 | 67 |
| 31 | SCT | Forbie Activewear | 375 Churchill Ave N Ottawa ON K1Z 5C4 | N/184.1 | -2.05 | 67 |
| 32 | SPL | Enbridge Gas Distribution Inc. | 412 Edgewood Avenue Ottawa ON | ENE/184.9 | -0.33 | 68 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--------------------------------|---|---------------------|----------------------|--------------------|
| 32 | PINC | PIPELINE HIT 1/2" | 412 EDGEWOOD AVE,,OTTAWA,ON,K1Z 5K5,CA ON | ENE/184.9 | -0.33 | 68 |
| 33 | SCT | Simply Wood Furnishings Ltd. | 393A Richmond Rd Ottawa ON K2A 0E9 | W/187.7 | -2.07 | 69 |
| 33 | GEN | Mike Steinberg | 393-401 Richmond Road Ottawa ON K2A 0E9 | W/187.7 | -2.07 | 69 |
| 33 | SCT | Simply Wood Furnishings | 393A Richmond Rd Ottawa ON K2A 0E9 | W/187.7 | -2.07 | 69 |
| 34 | SCT | Entomological Society of Cda | 393 Winston Ave Ottawa ON K2A 1Y8 | WNW/193.8 | -2.49 | 69 |
| 35 | SPL | Enbridge Gas Distribution Inc. | 433 Roosevelt Ave. Ottawa ON | WSW/195.7 | -0.12 | 70 |
| 35 | PINC | ENBRIDGE GAS INC | 433 ROOSEVELT AVE,,OTTAWA,ON,K2A 1Z4,CA ON | WSW/195.7 | -0.12 | 70 |
| 36 | GEN | DISTRICT REALTY | 411 ROOSEVELT AVENUE OTTAWA ON K2A3X9 | WSW/202.4 | -2.08 | 71 |
| 37 | HINC | | 464 EVERED AVENUE OTTAWA ON K1Z 5K8 | ESE/211.6 | 3.01 | 71 |
| 38 | GEN | TUBMAN FUNERAL HOMES | 403 RICHMOND RD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 71 |
| 38 | GEN | TUBMAN FUNERAL HOMES 44-171 | 403 RICHMOND RD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 72 |
| 38 | GEN | TUBMAN FUNERAL HOMES | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 72 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|------------------------------------|--|---------------------|----------------------|--------------------|
| 38 | GEN | J.A. TUBMAN FUNERAL HOMES LIMITED | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 72 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 72 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 73 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 73 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 73 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 74 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON | W/218.7 | -2.28 | 74 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 74 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 75 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 75 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 75 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 76 |
| 38 | GEN | TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | W/218.7 | -2.28 | 76 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|---|--|---------------------|----------------------|--------------------|
| 39 | SPL | PRIVATE RESIDENCE | HOUSE AT 356 WHITBY AVE FURNACE OIL TANK OTTAWA CITY ON K2A 0B5 | NW/219.8 | -3.04 | 76 |
| 40 | GEN | Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | NW/220.9 | -3.10 | 77 |
| 40 | GEN | Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | NW/220.9 | -3.10 | 77 |
| 40 | GEN | Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | NW/220.9 | -3.10 | 78 |
| 40 | GEN | Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | NW/220.9 | -3.10 | 78 |
| 41 | GEN | METROTYPE GRAPHICS LTD. | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | NNW/224.8 | -3.00 | 79 |
| 41 | GEN | METROTYPE GRAPHICS LTD. | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | NNW/224.8 | -3.00 | 79 |
| 41 | GEN | METROTYPE GRAPHICS LTD. 26-238 | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | NNW/224.8 | -3.00 | 79 |
| 41 | GEN | METRO(OUT OF BUS) 26-238 | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | NNW/224.8 | -3.00 | 79 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 80 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 80 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 80 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 81 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|---|---|---------------------|----------------------|--------------------|
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 81 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON | NNW/224.8 | -3.00 | 81 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 82 |
| 41 | GEN | Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | NNW/224.8 | -3.00 | 82 |
| 42 | SPL | CANADIAN WASTE SERVICES | 363 CHURCHILL, NORTH OF RICHMOND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON | NNW/225.3 | -3.08 | 82 |
| 43 | PINC | ZONE 5 LANDSCAPING INC | 409 EDGEWOOD AVE,,OTTAWA,ON,K1Z 5K6,CA ON | ENE/227.9 | -1.06 | 83 |
| 43 | SPL | Enbridge Gas Distribution Inc. | 409 Edgewood Avenue Ottawa ON | ENE/227.9 | -1.06 | 83 |
| 44 | SPL | | 424 Athlone St Ottawa ON | ENE/248.5 | -0.05 | 84 |
| 44 | PINC | GARY PATRICK GEHL | 424 ATHLONE AVE,,OTTAWA,ON,K1Z 5M5,CA ON | ENE/248.5 | -0.05 | 84 |
| 45 | SPL | 8596239 Canada Inc. <UNOFFICIAL> | 400 Athlone Ave Ottawa ON | ENE/249.4 | -1.01 | 85 |
| 46 | GEN | J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | WSW/249.6 | -2.74 | 85 |
| 46 | GEN | J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | WSW/249.6 | -2.74 | 86 |
| 46 | GEN | J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | WSW/249.6 | -2.74 | 86 |

| Map Key | DB | Company/Site Name | Address | Dir/Dist (m) | Elev Diff (m) | Page Number |
|--------------------|-----------|--|---|---------------------|----------------------|--------------------|
| 46 | GEN | J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | WSW/249.6 | -2.74 | 86 |
| 46 | GEN | J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | WSW/249.6 | -2.74 | 87 |
| 47 | SCT | Y'S OWL CO-OPERATIVE INC | 290 PICTON AVE OTTAWA ON K1Z 8P8 | NE/249.6 | -1.86 | 87 |
| 47 | SCT | Orezone Resources Inc. | 290 Picton St Suite 201 Ottawa ON K1Z 8P8 | NE/249.6 | -1.86 | 87 |
| 47 | SCT | Apption Software Inc. | 290 Picton Ave Suite 104 Ottawa ON K1Z 8P8 | NE/249.6 | -1.86 | 87 |
| 47 | SCT | Orezone Gold Corporation | 290 Picton Ave Suite 201 Ottawa ON K1Z 8P8 | NE/249.6 | -1.86 | 88 |
| 48 | PINC | PIPELINE HIT - 2" | 310 ELMGROVE AVE,,OTTAWA,ON,K1Z 6V1,CA ON | N/249.7 | -3.05 | 88 |
| 48 | SPL | Enbridge Gas Distribution Inc. | 310 Elmsgrove Ave Ottawa ON | N/249.7 | -3.05 | 88 |
| 49 | PINC | BEAVER CONSTRUCTION GROUP INC | 422 ATHLONE AVE,,OTTAWA,ON,K1Z 5M5,CA ON | ENE/249.8 | 0.00 | 89 |
| 50 | SCT | DOUBLE L PRINTERS | 416 RICHMOND RD OTTAWA ON K2A 0G2 | WSW/250.1 | -2.72 | 89 |
| 50 | SCT | Double L Printers - Div. of 595511 Ontario Inc. | 416 Richmond Rd Ottawa ON K2A 0G2 | WSW/250.1 | -2.72 | 90 |

Executive Summary: Summary By Data Source

CDRY - Dry Cleaning Facilities

A search of the CDRY database, dated Jan 2004-Dec 2018 has found that there are 1 CDRY site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------|---|----------------------------|--------------------------|
| Laundry Land Cleaning | 424 Churchill Ave N Ottawa ON K1Z5C8 | 0.0 | <u>1</u> |

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Jul 31, 2020 has found that there are 3 EXP site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|---|----------------------------|---------------------------|
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | <u>23</u> |
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | <u>23</u> |
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | <u>23</u> |

FST - Fuel Storage Tank

A search of the FST database, dated Jul 31, 2020 has found that there are 3 FST site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|---|----------------------------|---------------------------|
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | <u>23</u> |
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | <u>23</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|---|---------------------|--------------------|
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | 147.0 | 23 |

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 2 FSTH site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------|--------------------------------------|---------------------|--------------------|
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA ON K1Z 6X7 | 147.0 | 23 |
| AVENUES GARAGE LTD | 319 RICHMOND RD OTTAWA ON K1Z 6X7 | 147.0 | 23 |

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Jan 31, 2021 has found that there are 98 GEN site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------|---|---------------------|-------------------|
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1N 6B5 | 0.0 | 1 |
| LAUNDRY LAND 24-215 | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | 1 |
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | 1 |
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | 1 |
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | 1 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|----------------------|---|----------------------------|--------------------------|
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 CHURCHILL AVENUE OTTAWA ON | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| LAUNDRY LAND | 424 Churchill ave. Ottawa ON K1Z 5C8 | 0.0 | <u>1</u> |
| Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON | 16.0 | <u>2</u> |
| Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | 16.0 | <u>2</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------------------|--|----------------------------|--------------------------|
| Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | 16.0 | <u>2</u> |
| Blyth Academy Ottawa | 352 Danforth Ave Ottawa ON K2A 0E2 | 16.0 | <u>2</u> |
| ALBERT & SON ENGRAVERS | 412B CHURCHILL AVE. OTTAWA ON K1Z 5C6 | 30.9 | <u>4</u> |
| PEARL CLEANERS | 354B RICHMOND ROAD OTTAWA ON K2A 0E8 | 48.7 | <u>5</u> |
| VELO SPORTABLE CYCLE | 358 RICHMOND ROAD OTTAWA ON K2A 0E8 | 51.9 | <u>6</u> |
| 1534244 Ontario Inc | 358 Richmond Road Ottawa ON | 51.9 | <u>6</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--|---|----------------------------|--------------------------|
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Ottawa-Carleton District School Board Health & Safety | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | 59.9 | <u>7</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON | 62.6 | <u>8</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| Mountain Equipment Co-op | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |

| Site | Address | Distance (m) | Map Key |
|---------------------------------|---|---------------------|---------------------------|
| Mountain Equipment Co-op Ottawa | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| Mountain Equipment Co-op Ottawa | 366 Richmond Road Ottawa ON K2A 0E8 | 62.6 | <u>8</u> |
| WESTBOROUGH PHARMASAVE | 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | 71.6 | <u>9</u> |
| WESTBORO PHARMACY LTD | WESTBORO PHARMACY LIMITED 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | 71.6 | <u>9</u> |
| 561391 Ontario Inc. | 350 Richmond Road Ottawa ON K2A 0E8 | 72.6 | <u>11</u> |
| FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | 87.9 | <u>14</u> |
| FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | 87.9 | <u>14</u> |
| FREDERICK GRODDE LTD. | 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | 87.9 | <u>14</u> |
| JOSEPH C. GAFFNEY | 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | 93.0 | <u>15</u> |
| JOSEPH C. GAFFNEY 22-433 | 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | 93.0 | <u>15</u> |
| HYBRID PHRRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | 105.6 | <u>17</u> |
| HYBRID PHRRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | 105.6 | <u>17</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---|--|----------------------------|---------------------------|
| HYBRID PHRARM INC | 318 RICHMOND RD OTTAWA ON K1Z6X6 | 105.6 | <u>17</u> |
| First General Services (URA) | 528 Byron St Ottawa ON K2A 0E3 | 121.4 | <u>18</u> |
| Ottawa Carleton Construction Group Ltd. | 386 Richmond Road Ottawa ON K2A 0E8 | 135.1 | <u>21</u> |
| Avenues Garage Ltd. | 319 Richmond Rd Ottawa ON | 147.0 | <u>23</u> |
| Cassone Construction | 300 Richmond Rd. Ottawa ON | 148.6 | <u>24</u> |
| AL PARSONS (OUT OF BUSINESS) | 376 MADISON AVE. OTTAWA ON K2A 0B7 | 159.8 | <u>25</u> |
| AL PARSONS (OUT OF BUSINESS) 02-233 | 376 MADISON AVE. OTTAWA ON K2A 0B7 | 159.8 | <u>25</u> |
| regional elevator | 376 churchill road ottawa ON | 173.9 | <u>29</u> |
| Mike Steinberg | 393-401 Richmond Road Ottawa ON K2A 0E9 | 187.7 | <u>33</u> |
| DISTRICT REALTY | 411 ROOSEVELT AVENUE OTTAWA ON K2A3X9 | 202.4 | <u>36</u> |
| TUBMAN FUNERAL HOMES | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |

| Site | Address | Distance (m) | Map Key |
|------------------------------------|--|---------------------|---------------------------|
| J.A. TUBMAN FUNERAL HOMES LIMITED | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------------|---|----------------------------|---------------------------|
| TUBMAN FUNERAL HOMES AND CREMATION | 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES | 403 RICHMOND RD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| TUBMAN FUNERAL HOMES 44-171 | 403 RICHMOND RD OTTAWA ON K2A 0E9 | 218.7 | <u>38</u> |
| Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | 220.9 | <u>40</u> |
| Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | 220.9 | <u>40</u> |
| Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | 220.9 | <u>40</u> |
| Cameron Veterinary Professional Corp | 348 Whitby Ave Ottawa ON K2A 0B5 | 220.9 | <u>40</u> |
| METROTYPE GRAPHICS LTD. | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | 224.8 | <u>41</u> |
| METROTYPE GRAPHICS LTD. | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | 224.8 | <u>41</u> |
| METROTYPE GRAPHICS LTD. 26-238 | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | 224.8 | <u>41</u> |
| METRO(OUT OF BUS) 26-238 | 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | 224.8 | <u>41</u> |

| Site | Address | Distance (m) | Map Key |
|---|---|---------------------|--------------------|
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| Cameron Veterinary Professional Corporation | 364 Churchill Avenue North Ottawa ON K1Z 5C2 | 224.8 | 41 |
| J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | 249.6 | 46 |
| J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | 249.6 | 46 |
| J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | 249.6 | 46 |
| J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | 249.6 | 46 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-----------------------------|--|---------------------|--------------------|
| J. Clark Pharmacy Care Ltd. | 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | 249.6 | 46 |

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|--------------------|
| | 343 RICHMOND ROAD Ottawa ON K2A 0E7 | 96.6 | 16 |
| | 464 EVERED AVENUE OTTAWA ON K1Z 5K8 | 211.6 | 37 |

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated Jul 31, 2020 has found that there are 1 INC site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------|--|---------------------|-------------------|
| | 412 & 414 Churchill Avenue, Ottawa ON | 30.9 | 3 |

PINC - Pipeline Incidents

A search of the PINC database, dated Oct 31, 2020 has found that there are 7 PINC site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|-------------------|---|---------------------|--------------------|
| ENBRIDGE GAS INC | 401 EDEN AVE.,OTTAWA,ON,K1Z 5J1,CA ON | 169.5 | 28 |
| PIPELINE HIT 1/2" | 412 EDGEWOOD AVE.,OTTAWA,ON,K1Z 5K5,CA ON | 184.9 | 32 |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|----------------------------------|--|---------------------|--------------------|
| ENBRIDGE GAS INC | 433 ROOSEVELT AVE,,OTTAWA,ON,K2A 1Z4,CA ON | 195.7 | 35 |
| ZONE 5 LANDSCAPING INC | 409 EDGEWOOD AVE,,OTTAWA,ON,K1Z 5K6,CA ON | 227.9 | 43 |
| GARY PATRICK GEHL | 424 ATHLONE AVE,,OTTAWA,ON,K1Z 5M5, CA ON | 248.5 | 44 |
| PIPELINE HIT - 2" | 310 ELMGROVE AVE,,OTTAWA,ON,K1Z 6V1,CA ON | 249.7 | 48 |
| BEAVER CONSTRUCTION GROUP INC | 422 ATHLONE AVE,,OTTAWA,ON,K1Z 5M5, CA ON | 249.8 | 49 |

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 1 PRT site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|------------------------------------|-------------------------------------|---------------------|--------------------|
| TWENTY FIRST CENTURY MOTORS INC | 319 RICHMOND RD OTTAWA ON K1Z6X7 | 147.0 | 23 |

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Jan 2021 has found that there are 1 RSC site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---|---|---------------------|--------------------|
| Mr. Arnold Midgley, The Trustees of Kitchissippi United Church | 450 Churchill Avenue North, Ottawa, Ontario, K1Z 5E2 ON K1Z 5E2 | 121.9 | 19 |

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 17 SCT site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------|--|----------------------------|---------------------------|
| BlackCherry Digital Media Inc. | 346 Richmond Rd Suite 210 Ottawa ON K2A 0E8 | 72.0 | <u>10</u> |
| Valberg Imaging | 322 Richmond Rd Ottawa ON K1Z 6X6 | 84.6 | <u>13</u> |
| Forbie Activewear | 314 Richmond Rd Ottawa ON K1Z 6X6 | 124.6 | <u>20</u> |
| GEVC Interactive Inc. | 311 Richmond Rd Suite 204 Ottawa ON K1Z 6X3 | 164.4 | <u>27</u> |
| C.J.T. Surplus Equipment Ltd. | 376 Churchill Ave N Suite 306 Ottawa ON K1Z 5C3 | 173.9 | <u>29</u> |
| Imagnan Corp. | 376 Churchill Ave N Suite 107 Ottawa ON K1Z 5C3 | 173.9 | <u>29</u> |
| Gold Cast | 377 Churchill Ave N Ottawa ON K1Z 5C4 | 177.4 | <u>30</u> |
| Forbie Activewear | 375 Churchill Ave N Ottawa ON K1Z 5C4 | 184.1 | <u>31</u> |
| Simply Wood Furnishings | 393A Richmond Rd Ottawa ON K2A 0E9 | 187.7 | <u>33</u> |
| Simply Wood Furnishings Ltd. | 393A Richmond Rd Ottawa ON K2A 0E9 | 187.7 | <u>33</u> |
| Entomological Society of Cda | 393 Winston Ave Ottawa ON K2A 1Y8 | 193.8 | <u>34</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--|---|----------------------------|---------------------------|
| Y'S OWL CO-OPERATIVE INC | 290 PICTON AVE OTTAWA ON K1Z 8P8 | 249.6 | <u>47</u> |
| Apption Software Inc. | 290 Picton Ave Suite 104 Ottawa ON K1Z 8P8 | 249.6 | <u>47</u> |
| Orezone Resources Inc. | 290 Picton St Suite 201 Ottawa ON K1Z 8P8 | 249.6 | <u>47</u> |
| Orezone Gold Corporation | 290 Picton Ave Suite 201 Ottawa ON K1Z 8P8 | 249.6 | <u>47</u> |
| DOUBLE L PRINTERS | 416 RICHMOND RD OTTAWA ON K2A 0G2 | 250.1 | <u>50</u> |
| Double L Printers - Div. of 595511 Ontario Inc. | 416 Richmond Rd Ottawa ON K2A 0G2 | 250.1 | <u>50</u> |

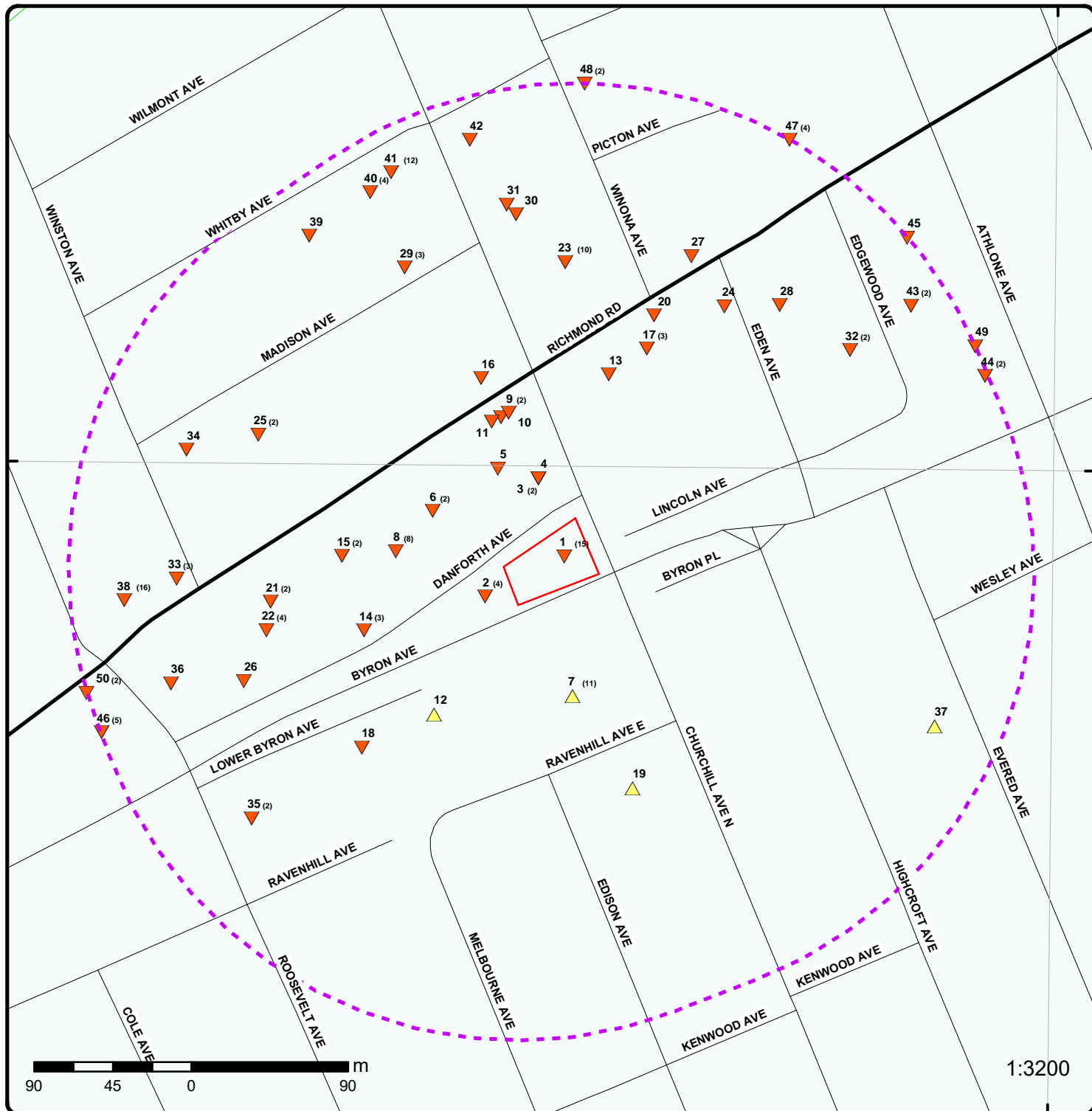
SPL - Ontario Spills

A search of the SPL database, dated 1988-Mar 2020; Jul 2020 - Aug 2020 has found that there are 16 SPL site(s) within approximately 0.25 kilometers of the project property.

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------|---|----------------------------|---------------------------|
| Enbridge Gas Distribution Inc. | 412 & 414 Churchill Ave. Ottawa ON | 30.9 | <u>3</u> |
| PRIVATE RESIDENCE | 518 BYRON AVE. STORAGE TANK/BARREL OTTAWA CITY ON K2A 0E3 | 78.9 | <u>12</u> |
| | 386 Richmond Rd S21 RESIDENCE<UNOFFICIAL> Ottawa ON K2A 0E8 | 135.1 | <u>21</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|---------------------------------|--|----------------------------|---------------------------|
| | 388 Richmond Rd. Ottawa ON K2A 0E8 | 141.0 | <u>22</u> |
| PRIVATE BUSINESS | BANK OF NOVA SCOTIA, 388 RICHMOND ST STORAGE TANK OTTAWA CITY ON K2A 0E8 | 141.0 | <u>22</u> |
| PRIVATE BUSINESS | 388 RICHMOND RD. OTTAWA BANK OF NOVA SCOTIA STORAGE TANK OTTAWA CITY ON K2A 0E8 | 141.0 | <u>22</u> |
| BANK OF NOVA SCOTIA | 388 RICHMOND ROAD BRANCH 388 RICHMOND ST, OTTAWA OTTAWA CITY ON K2A 0E8 | 141.0 | <u>22</u> |
| PRIVATE RESIDENCE | HOME AT 389 DANFORTH AVE FURNACE OIL TANK FURNACE OIL TANK OTTAWA CITY ON K2A 0E1 | 162.6 | <u>26</u> |
| Enbridge Gas Distribution Inc. | 412 Edgewood Avenue Ottawa ON | 184.9 | <u>32</u> |
| Enbridge Gas Distribution Inc. | 433 Roosevelt Ave. Ottawa ON | 195.7 | <u>35</u> |
| PRIVATE RESIDENCE | HOUSE AT 356 WHITBY AVE FURNACE OIL TANK OTTAWA CITY ON K2A 0B5 | 219.8 | <u>39</u> |
| CANADIAN WASTE SERVICES | 363 CHURCHILL, NORTH OF RICHMOND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON | 225.3 | <u>42</u> |
| Enbridge Gas Distribution Inc. | 409 Edgewood Avenue Ottawa ON | 227.9 | <u>43</u> |
| | 424 Athlone St Ottawa ON | 248.5 | <u>44</u> |
| 8596239 Canada Inc.<UNOFFICIAL> | 400 Athlone Ave Ottawa ON | 249.4 | <u>45</u> |

| <u>Site</u> | <u>Address</u> | <u>Distance (m)</u> | <u>Map Key</u> |
|--------------------------------|--------------------------------|---------------------|--------------------|
| Enbridge Gas Distribution Inc. | 310 Elmsgrove Ave Ottawa ON | 249.7 | 48 |



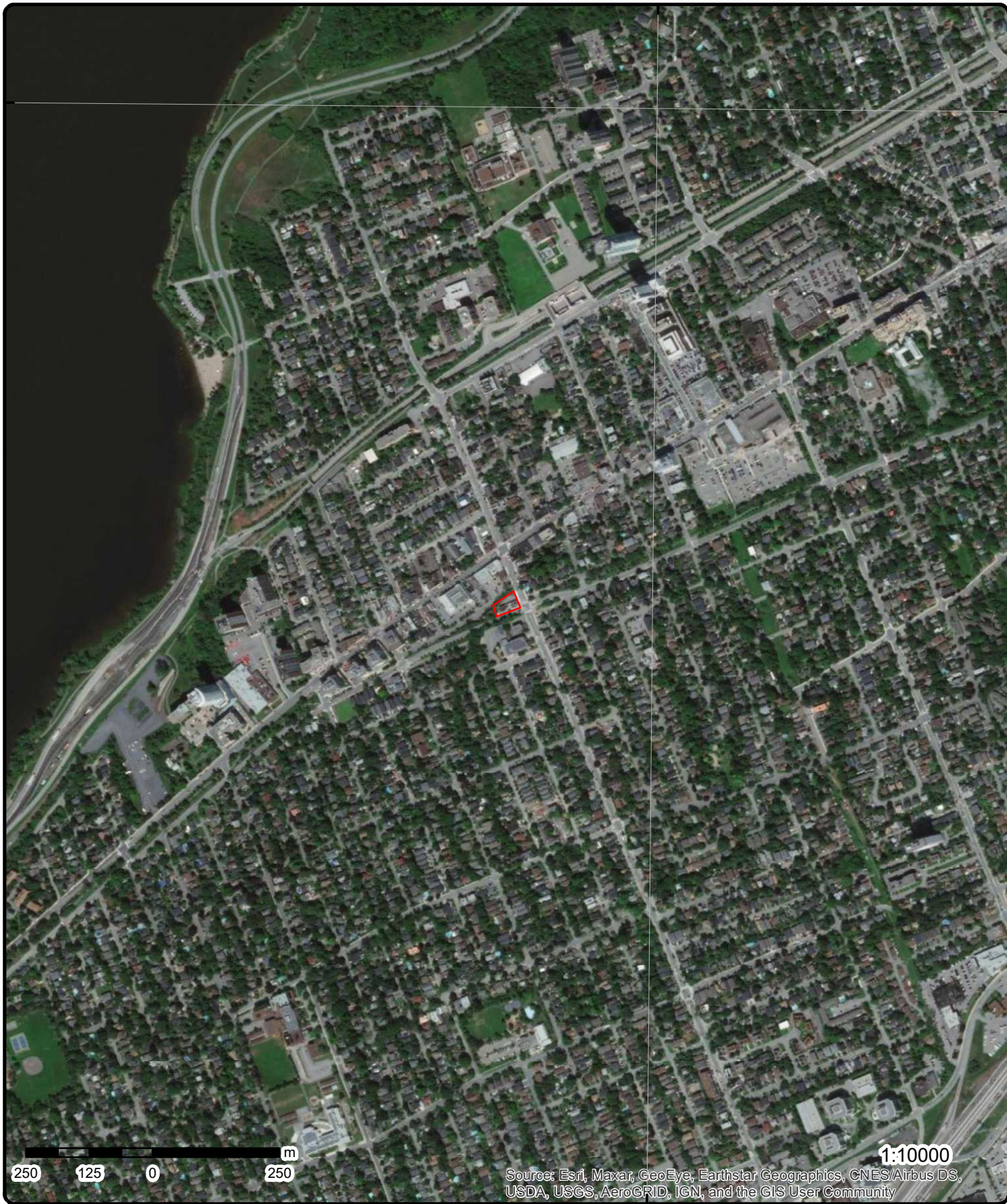
Map: 0.25 Kilometer Radius

Order Number: 21032600178

Address: 424 Churchill Avenue North, Ottawa, ON



| | | | |
|-----------------------------------|----------------------|-----------------------------------|--------------------------------|
| Project Property | Expressway | Industrial and Resource - Regions | National Park |
| Buffer Outline | Principal Highway | Main Line | Provincial or Territorial Park |
| Eris Sites with Higher Elevation | Secondary Highway | Sidetrack | Other Park |
| Eris Sites with Same Elevation | Major Road | Transit Line | Golf Course or Driving Range |
| Eris Sites with Lower Elevation | Local road | Abandoned Line | Park or Sports Field |
| Eris Sites with Unknown Elevation | Trail | Proposed Road | Other Recreation Area |
| | Proposed Road | | |
| | Ferry Route/Ice Road | | |



250 125 0 250 m

1:10000

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial Year: 2008

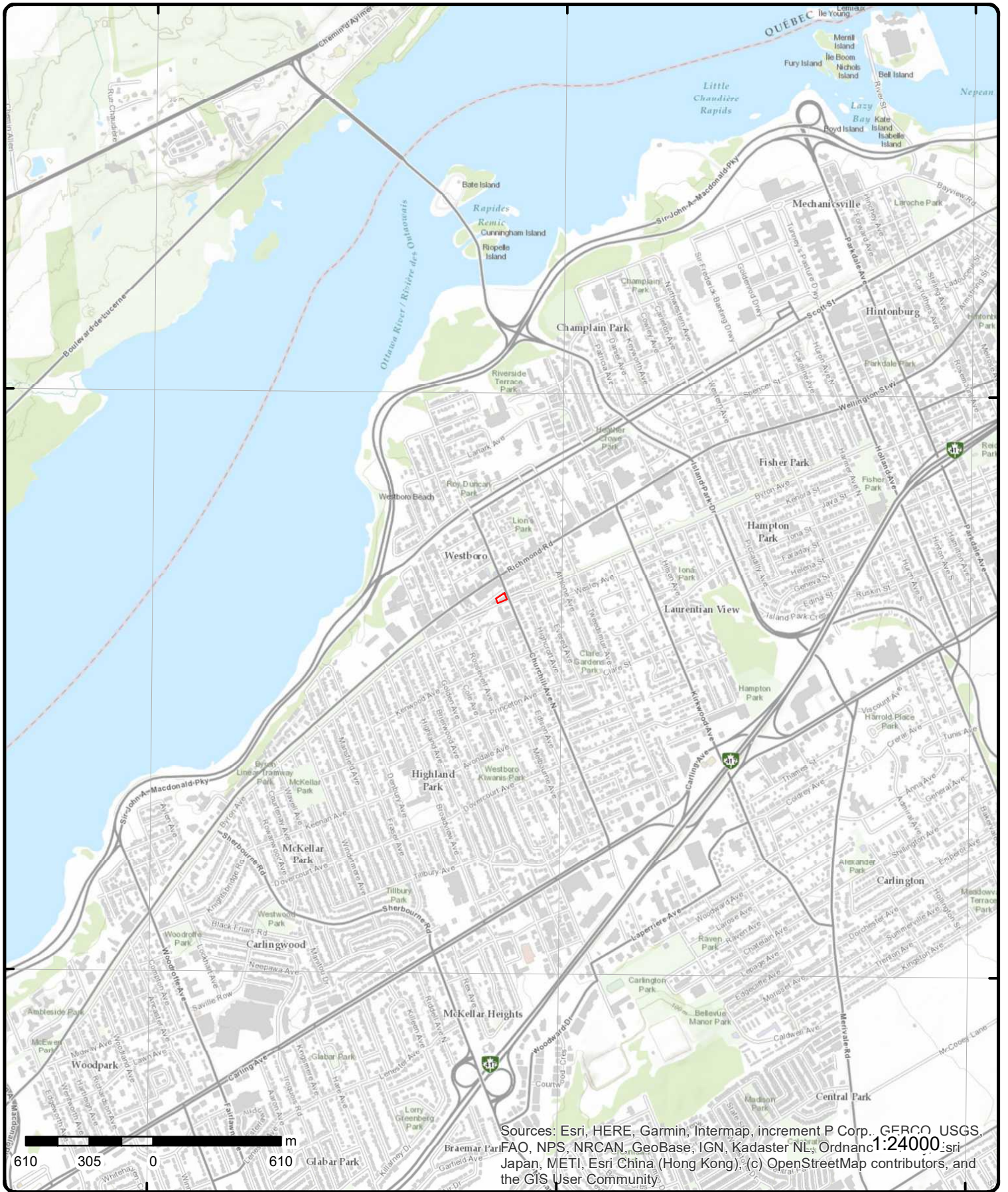
Address: 424 Churchill Avenue North, Ottawa, ON

Source: ESRI World Imagery

Order Number: 21032600178



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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, Sweco, and the GIS User Community.

Topographic Map

Address: 424 Churchill Avenue North, ON

Source: ESRI World Topographic Map

Order Number: 21032600178



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Detail Report

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|---|------------------|--|-----|
| 1 | 1 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1N 6B5 | GEN |
| Generator No: ON0550900 Status: Approval Years: 86,87,88,89 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANERS | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 241 | | Waste Class Desc: HALOGENATED SOLVENTS | | | |
| 1 | 2 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 24-215 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: ON0550900 Status: Approval Years: 92,93,94,95,96,97,98 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANER | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 241 | | Waste Class Desc: HALOGENATED SOLVENTS | | | |
| 1 | 3 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: ON0550900 Status: Approval Years: 99,00,01,02,03,04,05,06,07,08 Contam. Facility: MHSW Facility: SIC Code: 9721 SIC Description: POWER LAUND./CLEANERS | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 241 | | Waste Class Desc: HALOGENATED SOLVENTS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|----------------------------|------------------|---|-----|
| <u>1</u> | 4 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 812310 | | | | |
| SIC Description: | Coin-Operated Laundries and Dry Cleaners | | | | |
| Detail(s) | | | | | |
| Waste Class: | 241 | | | | |
| Waste Class Desc: | HALOGENATED SOLVENTS | | | | |
| <u>1</u> | 5 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 812310 | | | | |
| SIC Description: | Coin-Operated Laundries and Dry Cleaners | | | | |
| Detail(s) | | | | | |
| Waste Class: | 241 | | | | |
| Waste Class Desc: | HALOGENATED SOLVENTS | | | | |
| <u>1</u> | 6 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2011 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 812310 | | | | |
| SIC Description: | Coin-Operated Laundries and Dry Cleaners | | | | |
| Detail(s) | | | | | |
| Waste Class: | 241 | | | | |
| Waste Class Desc: | HALOGENATED SOLVENTS | | | | |
| <u>1</u> | 7 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 812310 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|--|------------------|---|-----------------|
| SIC Description: | | Coin-Operated Laundries and Dry Cleaners | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 241 | | | |
| Waste Class Desc: | | HALOGENATED SOLVENTS | | | |
| <u>1</u> | 8 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 CHURCHILL AVENUE OTTAWA ON | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 812310 | | | | |
| SIC Description: | COIN-OPERATED LAUNDRIES AND DRY CLEANERS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 241 | | | |
| Waste Class Desc: | | HALOGENATED SOLVENTS | | | |
| <u>1</u> | 9 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | Thai Phong Tran |
| MHSW Facility: | No | | | Phone No Admin: | 728-2105 Ext. |
| SIC Code: | 812310 | | | | |
| SIC Description: | COIN-OPERATED LAUNDRIES AND DRY CLEANERS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 241 | | | |
| Waste Class Desc: | | HALOGENATED SOLVENTS | | | |
| <u>1</u> | 10 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | Thai Phong Tran |
| MHSW Facility: | No | | | Phone No Admin: | 728-2105 Ext. |
| SIC Code: | 812310 | | | | |
| SIC Description: | COIN-OPERATED LAUNDRIES AND DRY CLEANERS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 241 | | | |
| Waste Class Desc: | | HALOGENATED SOLVENTS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|-------------------------|---------------|---|-----------------|
| 1 | 11 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | Thai Phong Tran |
| MHSW Facility: | No | | | Phone No Admin: | 728-2105 Ext. |
| SIC Code: | 812310 | | | | |
| SIC Description: | COIN-OPERATED LAUNDRIES AND DRY CLEANERS | | | | |

Detail(s)

Waste Class: 241
Waste Class Desc: HALOGENATED SOLVENTS

| | | | | | |
|--------------------------|----------------|---------|--------------|---|--------|
| 1 | 12 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |

Detail(s)

Waste Class: 241 H
Waste Class Desc: Halogenated solvents and residues

| | | | | | |
|--------------------------------------|---------------------------|---------|--------------|--|------|
| 1 | 13 of 15 | ENE/0.0 | 69.7 / -0.14 | Laundry Land Cleaning 424 Churchill Ave N Ottawa ON K1Z5C8 | CDRY |
| Legal Name of Company: | Laundry Land Dry Cleaning | | | | |
| <u>Waste Quantity by Year</u> | | | | | |
| Reporting Year: | 2018 | | | | |
| Quantity of PERC (kg): | 309 | | | | |
| Total Waste Water (kg): | 230 | | | | |
| Total Waste Water (L): | 0 | | | | |
| Total Residue (kg): | 0 | | | | |
| Total Residue (L): | 0 | | | | |
| Total Mix (kg): | 0 | | | | |
| Total Mix (L): | 0 | | | | |
| Request for Confidentiality: | no | | | | |
| Reason for Confidentiality: | | | | | |

| | | | | | |
|--------------------------|----------------|---------|--------------|---|--------|
| 1 | 14 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: | ON0550900 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jul 2020 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|--|------------------|--|-----|
| MHSW Facility: SIC Code: SIC Description: | | | | Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 241 H Halogenated solvents and residues | | | |
| 1 | 15 of 15 | ENE/0.0 | 69.7 / -0.14 | LAUNDRY LAND 424 Churchill ave. Ottawa ON K1Z 5C8 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON0550900 Registered As of Jan 2021 PO Box No: Country: Canada Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 241 H Halogenated solvents and residues | | | |
| 2 | 1 of 4 | WSW/16.0 | 69.8 / -0.05 | Blyth Academy Ottawa 352 Danforth Ave Ottawa ON | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON7687172 2013 611110 ELEMENTARY AND SECONDARY SCHOOLS PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 263 ORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: Waste Class Desc: | | 148 INORGANIC LABORATORY CHEMICALS | | | |
| 2 | 2 of 4 | WSW/16.0 | 69.8 / -0.05 | Blyth Academy Ottawa 352 Danforth Ave Ottawa ON K2A 0E2 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | ON7687172 2016 No No 611110 ELEMENTARY AND SECONDARY SCHOOLS PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|----------------------------------|--------------------------------|------------------|---|-------------|
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| <u>2</u> | 3 of 4 | WSW/16.0 | 69.8 / -0.05 | Blyth Academy Ottawa 352 Danforth Ave Ottawa ON K2A 0E2 | GEN |
| Generator No: | ON7687172 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| <u>2</u> | 4 of 4 | WSW/16.0 | 69.8 / -0.05 | Blyth Academy Ottawa 352 Danforth Ave Ottawa ON K2A 0E2 | GEN |
| Generator No: | ON7687172 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 148 | | | |
| Waste Class Desc: | | INORGANIC LABORATORY CHEMICALS | | | |
| Waste Class: | | 263 | | | |
| Waste Class Desc: | | ORGANIC LABORATORY CHEMICALS | | | |
| <u>3</u> | 1 of 2 | NNW/30.9 | 69.7 / -0.14 | Enbridge Gas Distribution Inc. 412 & 414 Churchill Ave. Ottawa ON | SPL |
| Ref No: | 8482-84ZNTG | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Discharge or Emission to Air | | | Sector Type: | Pipeline |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | 35 | | | Nearest Watercourse: | |
| Contaminant Name: | NATURAL GAS (METHANE) | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Not Anticipated | | | Site Municipality: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|-------------------------|---------------|--|----|
| Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 4/30/2010 Dt Document Closed: Incident Reason: Equipment/Vehicles Site Name: possible road Construction site<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA: Enbridge:1" plastic damage, methane to atmosphere Contaminant Qty: 40 min (duration) | | | | Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch Source Type: | |

| | | | | | |
|--|--------|----------|--------------|--|-----|
| <u>3</u> | 2 of 2 | NNW/30.9 | 69.7 / -0.14 | 412 & 414 Churchill Avenue, Ottawa ON | INC |
| Incident No: 377302 Incident ID: 2528892 Instance No: Status Code: Causal Analysis Complete Attribute Category: FS-Incident Context: Date of Occurrence: Time of Occurrence: Incident Created On: Instance Creation Dt: Instance Install Dt: Occur Insp Start Date: Approx Quant Rel: Tank Capacity: Fuels Occur Type: Fuel Type Involved: Enforcement Policy: Prc Escalation Req: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Cap: Task No: Notes: Drainage System: Sub Surface Contam.: Aff Prop Use Water: Contam. Migrated: Contact Natural Env: Incident Location: 412 & 414 Churchill Avenue, Ottawa - 1" Pipeline Hit Occurrence Narrative: Gas Line not properly Located. Operation Type Involved: Item: Item Description: Device Installed Location: | | | | Any Health Impact: Any Enviro Impact: Service Interrupted: Was Prop Damaged: Reside App. Type: Commer App. Type: Indus App. Type: Institut App. Type: Venting Type: Vent Conn Mater: Vent Chimney Mater: Pipeline Type: Service / Riser Distribution Pipeline Pipeline Involved: Pipe Material: Plastic Depth Ground Cover: .8m Regulator Location: Outside Regulator Type: Service Regulator (up to 60 psi intake) Operation Pressure: IP Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Liquid Prop Notes: Equipment Type: Equipment Model: Serial No: Cylinder Capacity: Cylinder Cap Units: Cylinder Mat Type: Near Body of Water: | |

| | | | | | |
|--|--------|----------|--------------|---|-----|
| <u>4</u> | 1 of 1 | NNW/30.9 | 69.7 / -0.14 | ALBERT & SON ENGRAVERS 412B CHURCHILL AVE. OTTAWA ON K1Z 5C6 | GEN |
| Generator No: ON2135900 Status: Approval Years: 96,97,98 Contam. Facility: MHSW Facility: | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|---|--------------------------------|---------------------|---|------------|
| SIC Code: SIC Description: | 2821 | | | | |
| | | PLATEMAKING, ETC. | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 112 | | | | |
| | | ACID WASTE - HEAVY METALS | | | |
| Waste Class: Waste Class Desc: | 211 | | | | |
| | | AROMATIC SOLVENTS | | | |
| Waste Class: Waste Class Desc: | 212 | | | | |
| | | ALIPHATIC SOLVENTS | | | |
| 5 | 1 of 1 | NW/48.7 | 68.8 / -1.10 | PEARL CLEANERS 354B RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON1984500 95,96,97,98,99,00,01 2499 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| | | OTHER CLOTHING ETC. | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 241 | | | | |
| | | HALOGENATED SOLVENTS | | | |
| 6 | 1 of 2 | WNW/51.9 | 68.8 / -1.04 | VELO SPORTABLE CYCLE 358 RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON1830701 00,01 6541 | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| | | SPORTING GOODS STORE | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 145 | | | | |
| | | PAINT/PIGMENT/COATING RESIDUES | | | |
| Waste Class: Waste Class Desc: | 212 | | | | |
| | | ALIPHATIC SOLVENTS | | | |
| Waste Class: Waste Class Desc: | 213 | | | | |
| | | PETROLEUM DISTILLATES | | | |
| Waste Class: Waste Class Desc: | 221 | | | | |
| | | LIGHT FUELS | | | |
| Waste Class: Waste Class Desc: | 251 | | | | |
| | | OIL SKIMMINGS & SLUDGES | | | |
| Waste Class: Waste Class Desc: | 252 | | | | |
| | | WASTE OILS & LUBRICANTS | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|----------------------------------|----------------------------|------------------|--|-----|
| 6 | 2 of 2 | WNW/51.9 | 68.8 / -1.04 | 1534244 Ontario Inc 358 Richmond Road Ottawa ON | GEN |
| Generator No: | ON5993376 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 03,04,06 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 451110 | | | | |
| SIC Description: | Sporting Goods Stores | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 211 | | | | |
| Waste Class Desc: | AROMATIC SOLVENTS | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| 7 | 1 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2009 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | Elementary and Secondary Schools | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| 7 | 2 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2010 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | Elementary and Secondary Schools | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| 7 | 3 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|----------------------------------|----------------------------|--------------------|---|------------|
| <i>Ottawa ON K2A 0J5</i> | | | | | |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2011 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | Elementary and Secondary Schools | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| <u>7</u> | 4 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | Elementary and Secondary Schools | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| <u>7</u> | 5 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| <u>7</u> | 6 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|----------------------------------|----------------------------|------------------|---|-----------------------|
| <i>Ottawa ON K2A 0J5</i> | | | | | |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Greg Benson |
| MHSW Facility: | No | | | Phone No Admin: | 613-596-8211 Ext.8549 |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| <u>7</u> | 7 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Greg Benson |
| MHSW Facility: | No | | | Phone No Admin: | 613-596-8211 Ext.8549 |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| <u>7</u> | 8 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Greg Benson |
| MHSW Facility: | No | | | Phone No Admin: | 613-596-8211 Ext.8549 |
| SIC Code: | 611110 | | | | |
| SIC Description: | ELEMENTARY AND SECONDARY SCHOOLS | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 | | | | |
| Waste Class Desc: | PAINT/PIGMENT/COATING RESIDUES | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| <u>7</u> | 9 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board Health & Safety | GEN |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|--|--------|
| | | | | 345 Ravenhill Ave. Ottawa ON K2A 0J5 | |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 I | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| Waste Class: | 146 T | | | | |
| Waste Class Desc: | Other specified inorganic sludges, slurries or solids | | | | |
| <u>7</u> | 10 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board Health & Safety 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jul 2020 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 146 T | | | | |
| Waste Class Desc: | Other specified inorganic sludges, slurries or solids | | | | |
| Waste Class: | 145 I | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| <u>7</u> | 11 of 11 | SSE/59.9 | 71.5 / 1.64 | Ottawa-Carleton District School Board Health & Safety 345 Ravenhill Ave. Ottawa ON K2A 0J5 | GEN |
| Generator No: | ON6810332 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jan 2021 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 145 I | | | | |
| Waste Class Desc: | Wastes from the use of pigments, coatings and paints | | | | |
| Waste Class: | 146 T | | | | |
| Waste Class Desc: | Other specified inorganic sludges, slurries or solids | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|----------------------------|------------------|--|------------------|
| <u>8</u> | 1 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | SPORTING GOODS STORES, OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE | | | | |
| Detail(s) | | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| <u>8</u> | 2 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2011 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | | | | | |
| <u>8</u> | 3 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | Sporting Goods Stores, Other Personal and Household Goods Repair and Maintenance | | | | |
| <u>8</u> | 4 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Justin Partridge |
| MHSW Facility: | No | | | Phone No Admin: | 6137297802 Ext. |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | SPORTING GOODS STORES, OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE | | | | |
| Detail(s) | | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|--|-------------------------|---------------|--|------------------|
| <u>8</u> | 5 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Justin Partridge |
| MHSW Facility: | No | | | Phone No Admin: | 6137297802 Ext. |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | SPORTING GOODS STORES, OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE | | | | |
| Detail(s) | | | | | |
| Waste Class: | 146 | | | | |
| Waste Class Desc: | OTHER SPECIFIED INORGANICS | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |
| Waste Class: | 252 | | | | |
| Waste Class Desc: | WASTE OILS & LUBRICANTS | | | | |

| | | | | | |
|--------------------------|--|--------|--------------|--|-------------------|
| <u>8</u> | 6 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Lukasz Dybinksi |
| MHSW Facility: | No | | | Phone No Admin: | 613 729 7802 Ext. |
| SIC Code: | 451110, 811490 | | | | |
| SIC Description: | SPORTING GOODS STORES, OTHER PERSONAL AND HOUSEHOLD GOODS REPAIR AND MAINTENANCE | | | | |
| Detail(s) | | | | | |
| Waste Class: | 251 | | | | |
| Waste Class Desc: | OIL SKIMMINGS & SLUDGES | | | | |

| | | | | | |
|--------------------------|---|--------|--------------|---|--------|
| <u>8</u> | 7 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op Ottawa 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| Detail(s) | | | | | |
| Waste Class: | 146 T | | | | |
| Waste Class Desc: | Other specified inorganic sludges, slurries or solids | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| Waste Class: | 331 I | | | | |
| Waste Class Desc: | Waste compressed gases including cylinders | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|---|----------------------------|------------------|--|--------|
| 8 | 8 of 8 | W/62.6 | 68.9 / -1.03 | Mountain Equipment Co-op Ottawa 366 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON6336429 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Oct 2019 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| Waste Class: | 331 I | | | | |
| Waste Class Desc: | Waste compressed gases including cylinders | | | | |
| Waste Class: | 146 T | | | | |
| Waste Class Desc: | Other specified inorganic sludges, slurries or solids | | | | |
| 9 | 1 of 2 | NNW/71.6 | 68.9 / -1.02 | WESTBOROUGH PHARMASAVE 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: | ON1842422 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 6031 | | | | |
| SIC Description: | PHARMACIES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 | | | | |
| Waste Class Desc: | PHARMACEUTICALS | | | | |
| Waste Class: | 312 | | | | |
| Waste Class Desc: | PATHOLOGICAL WASTES | | | | |
| 9 | 2 of 2 | NNW/71.6 | 68.9 / -1.02 | WESTBORO PHARMACY LTD WESTBORO PHARMACY LIMITED 340 RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: | ON1842422 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 02,03,04 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 | | | | |
| Waste Class Desc: | PHARMACEUTICALS | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|--|---------------------|--|------------|
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| 10 | 1 of 1 | NNW/72.0 | 68.9 / -1.02 | BlackCherry Digital Media Inc. 346 Richmond Rd Suite 210 Ottawa ON K2A 0E8 | SCT |
| Established: | | 01-AUG-04 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Graphic Design Services | | | |
| SIC/NAICS Code: | | 541430 | | | |
| Description: | | Software Publishers | | | |
| SIC/NAICS Code: | | 511210 | | | |
| Description: | | Computer Systems Design and Related Services | | | |
| SIC/NAICS Code: | | 541510 | | | |
| Description: | | Motion Picture and Video Production | | | |
| SIC/NAICS Code: | | 512110 | | | |
| 11 | 1 of 1 | NNW/72.6 | 68.9 / -1.02 | 561391 Ontario Inc. 350 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | | ON1337355 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 03,04 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| 12 | 1 of 1 | SW/78.9 | 70.2 / 0.27 | PRIVATE RESIDENCE 518 BYRON AVE. STORAGE TANK/BARREL OTTAWA CITY ON K2A 0E3 | SPL |
| Ref No: | | 27129 | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | 10/28/1989 | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | | OTHER CAUSE (N.O.S.) | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | | NOT ANTICIPATED | | Site Municipality: | 20101 |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | | LAND | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | | 10/28/1989 | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | | CORROSION | | Source Type: | |
| Site Name: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|-----|
| Site County/District: Site Geo Ref Meth: Incident Summary: 400 L FURNACE OIL TO GRD AT RESIDENCE. Contaminant Qty: | | | | | |
| 13 | 1 of 1 | NNE/84.6 | 69.8 / -0.11 | Valberg Imaging 322 Richmond Rd Ottawa ON K1Z 6X6 | SCT |
| Established: 01-DEC-85 Plant Size (ft²): Employment: | | | | | |
| --Details-- | | | | | |
| Description: Other Printing SIC/NAICS Code: 323119 Description: Photographic Services SIC/NAICS Code: 541920 | | | | | |
| 14 | 1 of 3 | WSW/87.9 | 69.3 / -0.58 | FREDERICK GRODDE LTD. 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | GEN |
| Generator No: ON1788600 Status: Approval Years: 93,94,95,96,97,98,99,00,01 Contam. Facility: MHSW Facility: SIC Code: 9999 SIC Description: OTHER SERVICES PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | | | |
| Detail(s) | | | | | |
| Waste Class: 211 Waste Class Desc: AROMATIC SOLVENTS Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES | | | | | |
| 14 | 2 of 3 | WSW/87.9 | 69.3 / -0.58 | FREDERICK GRODDE LTD. 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | GEN |
| Generator No: ON1788600 Status: Approval Years: 02,03 Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | | | | |
| 14 | 3 of 3 | WSW/87.9 | 69.3 / -0.58 | FREDERICK GRODDE LTD. 379 DANFORTH AVENUE OTTAWA ON K2A 0E1 | GEN |
| Generator No: ON1788600 Status: Approval Years: 04 PO Box No: Country: Choice of Contact: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|---|---------------|--|------|
| Contam. Facility: MHSW Facility: SIC Code: SIC Description: | | Co Admin: Phone No Admin: | | | |
| 15 | 1 of 2 | W/93.0 | 68.9 / -1.01 | JOSEPH C. GAFFNEY 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: ON1338700 Status: Approval Years: 90 Contam. Facility: MHSW Facility: SIC Code: 6331 SIC Description: GASOLINE SERV. ST. | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 221 Waste Class Desc: LIGHT FUELS | | | | | |
| 15 | 2 of 2 | W/93.0 | 68.9 / -1.01 | JOSEPH C. GAFFNEY 22-433 372 RICHMOND ROAD OTTAWA ON K2A 0E8 | GEN |
| Generator No: ON1338700 Status: Approval Years: 92,93,94,95,96,97,98 Contam. Facility: MHSW Facility: SIC Code: 6331 SIC Description: GASOLINE SERV. ST. | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 221 Waste Class Desc: LIGHT FUELS | | | | | |
| 16 | 1 of 1 | NNW/96.6 | 68.9 / -1.04 | 343 RICHMOND ROAD Ottawa ON K2A 0E7 | HINC |
| External File Num: FS INC 0609-02847 Fuel Occurrence Type: Pipeline Strike Date of Occurrence: 10/18/2006 Fuel Type Involved: Natural Gas Status Desc: Completed - Causal Analysis(End) Job Type Desc: Incident/Near-Miss Occurrence (FS) Oper. Type Involved: Commercial (e.g. restaurant, business unit, etc) Service Interruptions: Yes Property Damage: No Fuel Life Cycle Stage: Utilization Root Cause: Root Cause: Equipment/Material/Component:No Procedures:No Maintenance:No Design:No Training:No Management:No Human Factors:Yes Reported Details: Fuel Category: Gaseous Fuel Occurrence Type: Incident Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) County Name: Ottawa Approx. Quant. Rel: Nearby body of water: Enter Drainage Syst.: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|---------------------|-------------------------|---------------|--|--------|
| <i>Approx. Quant. Unit: Environmental Impact:</i> | | | | | |
| 17 | 1 of 3 | NNE/105.6 | 68.7 / -1.17 | HYBRID PHRARM INC 318 RICHMOND RD OTTAWA ON K1Z6X6 | GEN |
| Generator No: | ON3143006 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 C | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |
| 17 | 2 of 3 | NNE/105.6 | 68.7 / -1.17 | HYBRID PHRARM INC 318 RICHMOND RD OTTAWA ON K1Z6X6 | GEN |
| Generator No: | ON3143006 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jul 2020 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 A | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |
| Waste Class: | 261 C | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |
| Waste Class: | 312 P | | | | |
| Waste Class Desc: | Pathological wastes | | | | |
| 17 | 3 of 3 | NNE/105.6 | 68.7 / -1.17 | HYBRID PHRARM INC 318 RICHMOND RD OTTAWA ON K1Z6X6 | GEN |
| Generator No: | ON3143006 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jan 2021 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 C | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------------|---|----------------------------|------------------|--|-------------------------|
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| Waste Class: | | 261 A | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |
| 18 | 1 of 1 | SW/121.4 | 69.8 / -0.05 | First General Services (URA) 528 Byron St Ottawa ON K2A 0E3 | GEN |
| Generator No: | ON3182297 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 03,04 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| 19 | 1 of 1 | SSE/121.9 | 72.4 / 2.46 | Mr. Arnold Midgley, The Trustees of Kitchissippi United Church 450 Churchill Avenue North, Ottawa, Ontario, K1Z 5E2 ON K1Z 5E2 | RSC |
| RSC ID: | 108923 | | | Cert Date: | 15-Apr-11 |
| RA No: | | | | Cert Prop Use No: | No CPU |
| RSC Type: | | | | Intended Prop Use: | Residential |
| Curr Property Use: | Institutional | | | Qual Person Name: | |
| Ministry District: | OTTAWA | | | Stratified (Y/N): | |
| Filing Date: | 16-Jun-11 | | | Audit (Y/N): | |
| Date Ack: | | | | Entire Leg Prop. (Y/N): | Yes |
| Date Returned: | | | | Accuracy Estimate: | 11 to 20 meters |
| Restoration Type: | | | | Telephone: | 613-7227254 |
| Soil Type: | | | | Fax: | 613-7229530 |
| Criteria: | | | | Email: | kitchissippi@bellnet.ca |
| CPU Issued Sect 1686: | No | | | | |
| Asmt Roll No: | 0614 084 502 05000 0000 | | | | |
| Prop ID No (PIN): | 04016-0077 (LT) | | | | |
| Property Municipal Address: | 450 Churchill Avenue North, Ottawa, Ontario, K1Z 5E2 | | | | |
| Mailing Address: | 630 Island Park Drive, Ottawa, Ontario, K1Y 0B7 | | | | |
| Latitude & Longitude: | 45.39000000N 75.75305560W | | | | |
| UTM Coordinates: | NAD83 18-441052-5026552 (converted from Latitude & Longitude) | | | | |
| Consultant: | | | | | |
| Legal Desc: | LTS 10 & 11, PL 204, E EDISON ST; LTS 10 & 11, PL 204, W CHURCHILL AV; OTTAWA/NEPEAN | | | | |
| Measurement Method: | Digitized from a satellite image | | | | |
| Applicable Standards: | Background Site Conditions Standard, with Potable Ground Water, Coarse Textured Soil, for Residential/Parkland/Institutional property use | | | | |
| RSC PDF: | | | | | |
| 20 | 1 of 1 | NNE/124.6 | 68.7 / -1.17 | Forbie Activewear 314 Richmond Rd Ottawa ON K1Z 6X6 | SCT |
| Established: | 1993 | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | Cut and Sew Clothing Contracting | | | | |
| SIC/NAICS Code: | 315210 | | | | |
| Description: | Other Men's and Boys' Cut and Sew Clothing Manufacturing | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--|---|------------------|--|------------|
| SIC/NAICS Code: | | 315229 | | | |
| Description: | | Other Women's and Girls' Cut and Sew Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315239 | | | |
| Description: | | All Other Cut and Sew Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315299 | | | |
| Description: | | Clothing Accessories and Other Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315990 | | | |
| 21 | 1 of 2 | W/135.1 | 68.9 / -0.96 | 386 Richmond Rd S21 RESIDENCE<UNOFFICIAL> Ottawa ON K2A 0E8 | SPL |
| Ref No: | 6156-6P2LJU | Discharger Report: | | | |
| Site No: | | Material Group: | | Oils | |
| Incident Dt: | 4/20/2006 | Health/Env Conseq: | | | |
| Year: | | Client Type: | | | |
| Incident Cause: | Unknown | Sector Type: | | Other | |
| Incident Event: | | Agency Involved: | | | |
| Contaminant Code: | 13 | Nearest Watercourse: | | | |
| Contaminant Name: | FURNACE OIL | Site Address: | | 386 RICHMOND RD | |
| Contaminant Limit 1: | | Site District Office: | | Ottawa | |
| Contam Limit Freq 1: | | Site Postal Code: | | | |
| Contaminant UN No 1: | | Site Region: | | | |
| Environment Impact: | Possible | Site Municipality: | | Ottawa | |
| Nature of Impact: | Air Pollution | Site Lot: | | | |
| Receiving Medium: | Air | Site Conc: | | | |
| Receiving Env: | | Northing: | | | |
| MOE Response: | | Easting: | | | |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | | | |
| MOE Reported Dt: | 4/20/2006 | Site Map Datum: | | | |
| Dt Document Closed: | | SAC Action Class: | | | |
| Incident Reason: | Unknown - Reason not determined | Source Type: | | | |
| Site Name: | 386 RICHMOND RD | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | TSSA: fuel odour complaint-386 Richmond Rd. Ottawa | | | | |
| Contaminant Qty: | Not Specified | | | | |
| 21 | 2 of 2 | W/135.1 | 68.9 / -0.96 | Ottawa Carleton Construction Group Ltd. 386 Richmond Road Ottawa ON K2A 0E8 | GEN |
| Generator No: | ON3053460 | PO Box No: | | | |
| Status: | Registered | Country: | | Canada | |
| Approval Years: | As of Oct 2019 | Choice of Contact: | | | |
| Contam. Facility: | | Co Admin: | | | |
| MHSW Facility: | | Phone No Admin: | | | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 221 L | | | | |
| Waste Class Desc: | Light fuels | | | | |
| 22 | 1 of 4 | W/141.0 | 68.8 / -1.05 | BANK OF NOVA SCOTIA 388 RICHMOND ROAD BRANCH 388 RICHMOND | SPL |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|---|-------------------------|---------------|--------------------------------------|-------|
| | | | | ST, OTTAWA OTTAWA CITY ON K2A 0E8 | |
| Ref No: | 85046 | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 5/4/1993 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | ABOVE-GROUND TANK LEAK | | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | POSSIBLE | | | Site Municipality: | 20101 |
| Nature of Impact: | Multi Media Pollution | | | Site Lot: | |
| Receiving Medium: | LAND | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 5/4/1993 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | OVERSTRESS/OVERPRESSURE | | | Source Type: | |
| Site Name: | | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | BANK OF NOVA SCOTIA-2 L FURNACE OIL TO GROUND, CONTAINED. | | | | |
| Contaminant Qty: | | | | | |

| | | | | | |
|------------------------------|--|---------|--------------|---|-------|
| <u>22</u> | 2 of 4 | W/141.0 | 68.8 / -1.05 | PRIVATE BUSINESS 388 RICHMOND RD. OTTAWA BANK OF NOVA SCOTIA STORAGE TANK OTTAWA CITY ON K2A 0E8 | SPL |
| Ref No: | 222829 | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 3/8/2002 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | OTHER CONTAINER LEAK | | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | POSSIBLE | | | Site Municipality: | 20107 |
| Nature of Impact: | Soil contamination | | | Site Lot: | |
| Receiving Medium: | LAND | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 3/8/2002 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | GASKET, JOINT | | | Source Type: | |
| Site Name: | | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | BANK OF NOVA SCOTIA:SPILL FUEL OIL TO PARKING LOT CONTAINED /CLEANING. | | | | |
| Contaminant Qty: | | | | | |

| | | | | | |
|---------------------------|--------|---------|--------------|--|-----|
| <u>22</u> | 3 of 4 | W/141.0 | 68.8 / -1.05 | PRIVATE BUSINESS BANK OF NOVA SCOTIA, 388 RICHMOND ST | SPL |
|---------------------------|--------|---------|--------------|--|-----|

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--|----------------------------|------------------|---|-------------|
| | | | | STORAGE TANK OTTAWA CITY ON K2A 0E8 | |
| Ref No: | 222842 | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 3/8/2002 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | ABOVE-GROUND TANK LEAK | | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | POSSIBLE | | | Site Municipality: | 20107 |
| Nature of Impact: | Soil contamination | | | Site Lot: | |
| Receiving Medium: | LAND | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 3/8/2002 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | EQUIPMENT FAILURE | | | Source Type: | |
| Site Name: | | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | BANK OF NOVA SCOTIA: 50L FURNACE OIL TO GROUND, NO WATER, CLEANED UP | | | | |
| Contaminant Qty: | | | | | |
| 22 | 4 of 4 | W/141.0 | 68.8 / -1.05 | 388 Richmond Rd. Ottawa ON K2A 0E8 | SPL |
| Ref No: | 3388-6HZHC2 | | | Discharger Report: | 0 |
| Site No: | | | | Material Group: | Oil |
| Incident Dt: | 11/8/2005 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | Tank (Above Ground) Leak | | | Sector Type: | Other |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | FUEL OIL | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | Ottawa |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | Not Anticipated | | | Site Municipality: | Ottawa |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | Land | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 11/8/2005 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | Land Spills |
| Incident Reason: | Error- Operator error | | | Source Type: | |
| Site Name: | Bank of Nova Scotia<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | Furnace oil spill, qty unkn, Ottawa | | | | |
| Contaminant Qty: | | | | | |
| 23 | 1 of 10 | N/147.0 | 68.7 / -1.21 | TWENTY FIRST CENTURY MOTORS INC 319 RICHMOND RD OTTAWA ON K1Z6X7 | PRT |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|--|------------------|--|------|
| Location ID: Type: Expiry Date: Capacity (L): Licence #: | | 11058 retail 1995-11-30 68100 0076376086 | | | |
| 23 | 2 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA ON K1Z 6X7 | FSTH |
| License Issue Date: Tank Status: Tank Status As Of: Operation Type: Facility Type: | | 4/1/2002 Licensed August 2007 Retail Fuel Outlet Gasoline Station - Full Serve | | | |
| --Details-- | | | | | |
| Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type: | | Active 1984 22700 Liquid Fuel Single Wall UST - Gasoline | | | |
| Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type: | | Active 1984 22700 Liquid Fuel Single Wall UST - Gasoline | | | |
| Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type: | | Active 1984 22700 Liquid Fuel Single Wall UST - Diesel | | | |
| 23 | 3 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA ON K1Z 6X7 | FSTH |
| License Issue Date: Tank Status: Tank Status As Of: Operation Type: Facility Type: | | 4/1/2002 Licensed December 2008 Retail Fuel Outlet Gasoline Station - Full Serve | | | |
| --Details-- | | | | | |
| Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type: | | Active 1984 22700 Liquid Fuel Single Wall UST - Gasoline | | | |
| Status: Year of Installation: Corrosion Protection: Capacity: Tank Fuel Type: | | Active 1984 22700 Liquid Fuel Single Wall UST - Gasoline | | | |
| Status: Year of Installation: Corrosion Protection: | | Active 1984 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--------------------------------------|--------------------------------------|------------------|---|------|
| Capacity: | | 22700 | | | |
| Tank Fuel Type: | | Liquid Fuel Single Wall UST - Diesel | | | |
| 23 | 4 of 10 | N/147.0 | 68.7 / -1.21 | Avenues Garage Ltd. 319 Richmond Rd Ottawa ON | GEN |
| Generator No: | ON3859040 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2013 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 811111 | | | | |
| SIC Description: | GENERAL AUTOMOTIVE REPAIR | | | | |
| Detail(s) | | | | | |
| Waste Class: | 221 | | | | |
| Waste Class Desc: | LIGHT FUELS | | | | |
| 23 | 5 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | EXP |
| Instance No: | 10905908 | | | Model: | NULL |
| Status: | EXPIRED | | | Quantity: | 1 |
| Instance ID: | | | | Unit of Measure: | EA |
| Instance Type: | | | | Fuel Type2: | NULL |
| Instance Creation Dt: | 7/19/2000 8:15:15 PM | | | Fuel Type3: | NULL |
| Instance Install Dt: | 5/21/2009 | | | Piping Steel: | |
| Item: | | | | Piping Galvanized: | |
| Item Description: | FS Liquid Fuel Tank | | | Tank Single Wall St: | |
| Facility Type: | FS LIQUID FUEL TANK | | | Piping Underground: | |
| Overfill Prot Type: | NULL | | | Tank Underground: | |
| Creation Date: | 7/5/2009 1:22:04 AM | | | Panam Related: | NULL |
| Expired Date: | | | | Panam Venue Nm: | NULL |
| Manufacturer: | NULL | | | | |
| Source: | FS Liquid Fuel Tank | | | | |
| Description: | 2009VBS | | | | |
| Serial No: | NULL | | | | |
| Ulc Standard: | NULL | | | | |
| Facility Location: | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | | |
| 23 | 6 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | EXP |
| Instance No: | 10905926 | | | Model: | NULL |
| Status: | EXPIRED | | | Quantity: | 1 |
| Instance ID: | | | | Unit of Measure: | EA |
| Instance Type: | | | | Fuel Type2: | NULL |
| Instance Creation Dt: | 7/19/2000 8:15:15 PM | | | Fuel Type3: | NULL |
| Instance Install Dt: | 5/21/2009 | | | Piping Steel: | |
| Item: | | | | Piping Galvanized: | |
| Item Description: | FS Liquid Fuel Tank | | | Tank Single Wall St: | |
| Facility Type: | FS LIQUID FUEL TANK | | | Piping Underground: | |
| Overfill Prot Type: | NULL | | | Tank Underground: | |
| Creation Date: | 7/5/2009 1:22:06 AM | | | Panam Related: | NULL |
| Expired Date: | | | | Panam Venue Nm: | NULL |
| Manufacturer: | NULL | | | | |
| Source: | FS Liquid Fuel Tank | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------------|-------------------|--------------------------------------|------------------|--|-----|
| Description: | | 2009VBS | | | |
| Serial No: | | NULL | | | |
| Ulc Standard: | | NULL | | | |
| Facility Location: | | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | |
| 23 | 7 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | EXP |
| Instance No: | | 10905941 | | Model: NULL | |
| Status: | | EXPIRED | | Quantity: 1 | |
| Instance ID: | | | | Unit of Measure: EA | |
| Instance Type: | | | | Fuel Type2: NULL | |
| Instance Creation Dt: | | 7/19/2000 8:15:15 PM | | Fuel Type3: NULL | |
| Instance Install Dt: | | 5/21/2009 | | Piping Steel: | |
| Item: | | | | Piping Galvanized: | |
| Item Description: | | FS Liquid Fuel Tank | | Tank Single Wall St: | |
| Facility Type: | | FS LIQUID FUEL TANK | | Piping Underground: | |
| Overfill Prot Type: | | NULL | | Tank Underground: | |
| Creation Date: | | 7/5/2009 1:22:07 AM | | Panam Related: NULL | |
| Expired Date: | | | | Panam Venue Nm: NULL | |
| Manufacturer: | | NULL | | | |
| Source: | | FS Liquid Fuel Tank | | | |
| Description: | | 2009VBS | | | |
| Serial No: | | NULL | | | |
| Ulc Standard: | | NULL | | | |
| Facility Location: | | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | |
| 23 | 8 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | FST |
| Instance No: | | 10905908 | | Manufacturer: | |
| Status: | | | | Serial No: | |
| Cont Name: | | | | Ulc Standard: | |
| Instance Type: | | | | Quantity: | |
| Item: | | FS LIQUID FUEL TANK | | Unit of Measure: | |
| Item Description: | | FS Liquid Fuel Tank | | Fuel Type: Gasoline | |
| Tank Type: | | Liquid Fuel Single Wall UST | | Fuel Type2: NULL | |
| Install Date: | | 5/21/2009 | | Fuel Type3: NULL | |
| Install Year: | | 1984 | | Piping Steel: | |
| Years in Service: | | | | Piping Galvanized: | |
| Model: | | NULL | | Tanks Single Wall St: | |
| Description: | | | | Piping Underground: | |
| Capacity: | | 22700 | | Num Underground: | |
| Tank Material: | | Steel | | Panam Related: | |
| Corrosion Protect: | | | | Panam Venue: | |
| Overfill Protect: | | | | | |
| Facility Type: | | FS Liquid Fuel Tank | | | |
| Parent Facility Type: | | | | | |
| Facility Location: | | | | | |
| Device Installed Location: | | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | |
| Fuel Storage Tank Details | | | | | |
| Owner Account Name: | | AVENUES GARAGE LTD | | | |
| 23 | 9 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | FST |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------------|--------------------------------------|-------------------------|---------------|------------------------------|----------|
| Instance No: | 10905926 | | | Manufacturer: | |
| Status: | | | | Serial No: | |
| Cont Name: | | | | Ulc Standard: | |
| Instance Type: | | | | Quantity: | |
| Item: | FS LIQUID FUEL TANK | | | Unit of Measure: | |
| Item Description: | FS Liquid Fuel Tank | | | Fuel Type: | Gasoline |
| Tank Type: | Liquid Fuel Single Wall UST | | | Fuel Type2: | NULL |
| Install Date: | 5/21/2009 | | | Fuel Type3: | NULL |
| Install Year: | 1984 | | | Piping Steel: | |
| Years in Service: | | | | Piping Galvanized: | |
| Model: | NULL | | | Tanks Single Wall St: | |
| Description: | | | | Piping Underground: | |
| Capacity: | 22700 | | | Num Underground: | |
| Tank Material: | Steel | | | Panam Related: | |
| Corrosion Protect: | | | | Panam Venue: | |
| Overfill Protect: | | | | | |
| Facility Type: | FS Liquid Fuel Tank | | | | |
| Parent Facility Type: | | | | | |
| Facility Location: | | | | | |
| Device Installed Location: | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | | |

Fuel Storage Tank Details

Owner Account Name: AVENUES GARAGE LTD

| | | | | | |
|--------------------|----------|---------|--------------|--|-----|
| 23 | 10 of 10 | N/147.0 | 68.7 / -1.21 | AVENUES GARAGE LTD 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA ON | FST |
|--------------------|----------|---------|--------------|--|-----|

| | | | | | |
|-----------------------------------|--------------------------------------|--|--|------------------------------|--------|
| Instance No: | 10905941 | | | Manufacturer: | |
| Status: | | | | Serial No: | |
| Cont Name: | | | | Ulc Standard: | |
| Instance Type: | | | | Quantity: | |
| Item: | FS LIQUID FUEL TANK | | | Unit of Measure: | |
| Item Description: | FS Liquid Fuel Tank | | | Fuel Type: | Diesel |
| Tank Type: | Liquid Fuel Single Wall UST | | | Fuel Type2: | NULL |
| Install Date: | 5/21/2009 | | | Fuel Type3: | NULL |
| Install Year: | 1984 | | | Piping Steel: | |
| Years in Service: | | | | Piping Galvanized: | |
| Model: | NULL | | | Tanks Single Wall St: | |
| Description: | | | | Piping Underground: | |
| Capacity: | 22700 | | | Num Underground: | |
| Tank Material: | Steel | | | Panam Related: | |
| Corrosion Protect: | | | | Panam Venue: | |
| Overfill Protect: | | | | | |
| Facility Type: | FS Liquid Fuel Tank | | | | |
| Parent Facility Type: | | | | | |
| Facility Location: | | | | | |
| Device Installed Location: | 319 RICHMOND RD OTTAWA K1Z 6X7 ON CA | | | | |

Fuel Storage Tank Details

Owner Account Name: AVENUES GARAGE LTD

| | | | | | |
|--------------------|--------|----------|--------------|---|-----|
| 24 | 1 of 1 | NE/148.6 | 68.8 / -1.09 | Cassone Construction 300 Richmond Rd. Ottawa ON | GEN |
|--------------------|--------|----------|--------------|---|-----|

| | | | | | |
|--------------------------|-----------|--|--|---------------------------|--|
| Generator No: | ON4702399 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 2012 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------------|--|--|------------------|--|-------|
| SIC Code: 236220 | | SIC Description: Commercial and Institutional Building Construction | | | |
| 25 | 1 of 2 | WNW/159.8 | 67.9 / -2.04 | AL PARSONS (OUT OF BUSINESS) 376 MADISON AVE. OTTAWA ON K2A 0B7 | GEN |
| Generator No: | ON1029900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 88,89,90 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 5412 | | | | |
| SIC Description: | ELECTRONIC HH. APP. | | | | |
| Detail(s) | | | | | |
| Waste Class: | 213 | | | | |
| Waste Class Desc: | PETROLEUM DISTILLATES | | | | |
| 25 | 2 of 2 | WNW/159.8 | 67.9 / -2.04 | AL PARSONS (OUT OF BUSINESS) 02-233 376 MADISON AVE. OTTAWA ON K2A 0B7 | GEN |
| Generator No: | ON1029900 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,94,95,96,97,98 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 5412 | | | | |
| SIC Description: | ELECTRONIC HH. APP. | | | | |
| 26 | 1 of 1 | WSW/162.6 | 68.8 / -1.07 | PRIVATE RESIDENCE HOME AT 389 DANFORTH AVE FURNACE OIL TANK FURNACE OIL TANK OTTAWA CITY ON K2A 0E1 | SPL |
| Ref No: | 36769 | | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | 3/29/1990 | | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | OTHER CONTAINER LEAK | | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | POSSIBLE | | | Site Municipality: | 20101 |
| Nature of Impact: | Vegetation | | | Site Lot: | |
| Receiving Medium: | LAND | | | Site Conc: | |
| Receiving Env: | | | | Northing: | |
| MOE Response: | | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 3/29/1990 | | | Site Map Datum: | |
| Dt Document Closed: | | | | SAC Action Class: | |
| Incident Reason: | CORROSION | | | Source Type: | |
| Site Name: | | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | BACKENTRY- UNKNOWN QUANTITY OF FURNACE OIL TO GROUND, PINHOLE LEAK | | | | |
| Contaminant Qty: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------|-------------------|--|------------------|---|------|
| 27 | 1 of 1 | NNE/164.4 | 68.9 / -0.97 | GEVC Interactive Inc. 311 Richmond Rd Suite 204 Ottawa ON K1Z 6X3 | SCT |
| Established: | | 01-AUG-94 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Software Publishers | | | |
| SIC/NAICS Code: | | 511210 | | | |
| 28 | 1 of 1 | NE/169.5 | 69.0 / -0.94 | ENBRIDGE GAS INC 401 EDEN AVE,,OTTAWA,ON,K1Z 5J1,CA ON | PINC |
| Incident ID: | | | | | |
| Incident No: | | 2833556 | | | |
| Incident Reported Dt: | | 4/22/2020 | | | |
| Type: | | FS-Pipeline Incident | | | |
| Status Code: | | | | | |
| Customer Acct Name: | | ENBRIDGE GAS INC | | | |
| Incident Address: | | 401 EDEN AVE,,OTTAWA,ON,K1Z 5J1,CA | | | |
| Tank Status: | | Pipeline Damage Reason Est | | | |
| Task No: | | | | | |
| Spills Action Centre: | | | | | |
| Fuel Type: | | | | | |
| Fuel Occurrence Tp: | | | | | |
| Date of Occurrence: | | | | | |
| Occurrence Start Dt: | | | | | |
| Operation Type: | | | | | |
| Pipeline Type: | | | | | |
| Regulator Type: | | | | | |
| Summary: | | | | | |
| Reported By: | | | | | |
| Affiliation: | | | | | |
| Occurrence Desc: | | | | | |
| Damage Reason: | | | | | |
| Notes: | | | | | |
| Fuel Category: | | | | | |
| Health Impact: | | | | | |
| Environment Impact: | | | | | |
| Property Damage: | | | | | |
| Service Interupt: | | | | | |
| Enforce Policy: | | | | | |
| Public Relation: | | | | | |
| Pipeline System: | | | | | |
| Depth: | | | | | |
| Pipe Material: | | | | | |
| PSIG: | | | | | |
| Attribute Category: | | | | | |
| Regulator Location: | | | | | |
| Method Details: | | | | | |
| 29 | 1 of 3 | NW/173.9 | 67.9 / -1.95 | Imagnan Corp. 376 Churchill Ave N Suite 107 Ottawa ON K1Z 5C3 | SCT |
| Established: | | 01-JUN-95 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Stationery and Office Supplies Wholesaler-Distributors | | | |
| SIC/NAICS Code: | | 418210 | | | |
| Description: | | All Other Industrial Machinery Manufacturing | | | |
| SIC/NAICS Code: | | 333299 | | | |
| 29 | 2 of 3 | NW/173.9 | 67.9 / -1.95 | C.J.T. Surplus Equipment Ltd. 376 Churchill Ave N Suite 306 | SCT |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------|-------------------|--|---------------------|--|------------|
| <i>Ottawa ON K1Z 5C3</i> | | | | | |
| | | | 01-DEC-70 | | |
| Established: | | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Wholesale Trade Agents and Brokers | | | |
| SIC/NAICS Code: | | 419120 | | | |
| Description: | | Wholesale Trade Agents and Brokers | | | |
| SIC/NAICS Code: | | 419120 | | | |
| <u>29</u> | 3 of 3 | NW/173.9 | 67.9 / -1.95 | <i>regional elevator 376 churchill road ottawa ON</i> | GEN |
| Generator No: | | ON2901040 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2011 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 238291 | | | |
| SIC Description: | | | | | |
| <u>30</u> | 1 of 1 | N/177.4 | 67.8 / -2.05 | <i>Gold Cast 377 Churchill Ave N Ottawa ON K1Z 5C4</i> | SCT |
| Established: | | 01-AUG-93 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Jewellery and Silverware Manufacturing | | | |
| SIC/NAICS Code: | | 339910 | | | |
| <u>31</u> | 1 of 1 | N/184.1 | 67.8 / -2.05 | <i>Forbie Activewear 375 Churchill Ave N Ottawa ON K1Z 5C4</i> | SCT |
| Established: | | 01-MAY-93 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Cut and Sew Clothing Contracting | | | |
| SIC/NAICS Code: | | 315210 | | | |
| Description: | | Other Men's and Boys' Cut and Sew Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315229 | | | |
| Description: | | All Other Cut and Sew Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315299 | | | |
| Description: | | Cut and Sew Clothing Contracting | | | |
| SIC/NAICS Code: | | 315210 | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------|-------------------|---|------------------|------|----|
| Description: | | Clothing Accessories and Other Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315990 | | | |
| Description: | | Other Women's and Girls' Cut and Sew Clothing Manufacturing | | | |
| SIC/NAICS Code: | | 315239 | | | |

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|------------------------------|---|-----------|--------------|--|--|
| 32 | 1 of 2 | ENE/184.9 | 69.6 / -0.33 | Enbridge Gas Distribution Inc. 412 Edgewood Avenue Ottawa ON | SPL |
| Ref No: | 1132-AYMLE7 | | | Discharger Report: | |
| Site No: | NA | | | Material Group: | |
| Incident Dt: | 2018/05/10 | | | Health/Env Conseq: | 2 - Minor Environment |
| Year: | | | | Client Type: | Corporation |
| Incident Cause: | | | | Sector Type: | Miscellaneous Communal |
| Incident Event: | Leak/Break | | | Agency Involved: | |
| Contaminant Code: | 35 | | | Nearest Watercourse: | |
| Contaminant Name: | NATURAL GAS (METHANE) | | | Site Address: | 412 Edgewood Avenue |
| Contaminant Limit 1: | | | | Site District Office: | Ottawa |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | 1075 | | | Site Region: | Eastern |
| Environment Impact: | | | | Site Municipality: | Ottawa |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | Air | | | Northing: | |
| MOE Response: | No | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 2018/05/10 | | | Site Map Datum: | |
| Dt Document Closed: | 2018/05/18 | | | SAC Action Class: | TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill |
| Incident Reason: | Operator/Human Error | | | Source Type: | Pipeline/Components |
| Site Name: | Residence<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | TSSA FSB: 1/2 inch plastic IP service line strike, made safe. | | | | |
| Contaminant Qty: | 0 other - see incident description | | | | |

| | | | | | |
|------------------------------|--|-----------|--------------|---|------|
| 32 | 2 of 2 | ENE/184.9 | 69.6 / -0.33 | PIPELINE HIT 1/2" 412 EDGEWOOD AVE,,OTTAWA,ON,K1Z 5K5,CA ON | PINC |
| Incident ID: | | | | Fuel Category: | |
| Incident No: | 2302974 | | | Health Impact: | |
| Incident Reported Dt: | 5/11/2018 | | | Environment Impact: | |
| Type: | FS-Pipeline Incident | | | Property Damage: | |
| Status Code: | | | | Service Interrupt: | |
| Customer Acct Name: | PIPELINE HIT 1/2" | | | Enforce Policy: | |
| Incident Address: | 412 EDGEWOOD AVE,,OTTAWA,ON,K1Z 5K5,CA | | | Public Relation: | |
| Tank Status: | Pipeline Damage Reason Est | | | Pipeline System: | |
| Task No: | | | | Depth: | |
| Spills Action Centre: | | | | Pipe Material: | |
| Fuel Type: | | | | PSIG: | |
| Fuel Occurrence Tp: | | | | Attribute Category: | |
| Date of Occurrence: | | | | Regulator Location: | |
| Occurrence Start Dt: | | | | Method Details: | |
| Operation Type: | | | | | |
| Pipeline Type: | | | | | |
| Regulator Type: | | | | | |
| Summary: | | | | | |
| Reported By: | | | | | |
| Affiliation: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|--|---------------------------|---|-----|
| Occurrence Desc: Damage Reason: Notes: | | | | | |
| 33 | 1 of 3 | W/187.7 | 67.8 / -2.07 | Simply Wood Furnishings Ltd. 393A Richmond Rd Ottawa ON K2A 0E9 | SCT |
| Established: | | 1987 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | 5 | | | |
| --Details-- | | | | | |
| Description: | | Wood Kitchen Cabinet and Counter Top Manufacturing | | | |
| SIC/NAICS Code: | | 337110 | | | |
| 33 | 2 of 3 | W/187.7 | 67.8 / -2.07 | Mike Steinberg 393-401 Richmond Road Ottawa ON K2A 0E9 | GEN |
| Generator No: | | ON1851952 | PO Box No: | | |
| Status: | | | Country: | | |
| Approval Years: | | 02,03,04,05 | Choice of Contact: | | |
| Contam. Facility: | | | Co Admin: | | |
| MHSW Facility: | | | Phone No Admin: | | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| Detail(s) | | | | | |
| Waste Class: | | 221 | | | |
| Waste Class Desc: | | LIGHT FUELS | | | |
| Waste Class: | | 252 | | | |
| Waste Class Desc: | | WASTE OILS & LUBRICANTS | | | |
| 33 | 3 of 3 | W/187.7 | 67.8 / -2.07 | Simply Wood Furnishings 393A Richmond Rd Ottawa ON K2A 0E9 | SCT |
| Established: | | 1987 | | | |
| Plant Size (ft²): | | 7000 | | | |
| Employment: | | 5 | | | |
| --Details-- | | | | | |
| Description: | | Wood Kitchen Cabinet and Counter Top Manufacturing | | | |
| SIC/NAICS Code: | | 337110 | | | |
| 34 | 1 of 1 | WNW/193.8 | 67.4 / -2.49 | Entomological Society of Cda 393 Winston Ave Ottawa ON K2A 1Y8 | SCT |
| Established: | | 01-DEC-68 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|------------------------|-------------------|----------------------------|---------------|------|----|
| --Details-- | | | | | |
| Description: | | Professional Organizations | | | |
| SIC/NAICS Code: | | 813920 | | | |

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|------------------------------|---|-----------|--------------|--|--|
| 35 | 1 of 2 | WSW/195.7 | 69.8 / -0.12 | Enbridge Gas Distribution Inc. 433 Roosevelt Ave. Ottawa ON | SPL |
| Ref No: | 8230-BFSLAG | | | Discharger Report: | |
| Site No: | NA | | | Material Group: | |
| Incident Dt: | 9/7/2019 | | | Health/Env Conseq: | 2 - Minor Environment Corporation |
| Year: | | | | Client Type: | Miscellaneous Industrial |
| Incident Cause: | | | | Sector Type: | |
| Incident Event: | Leak/Break | | | Agency Involved: | |
| Contaminant Code: | 35 | | | Nearest Watercourse: | |
| Contaminant Name: | NATURAL GAS (METHANE) | | | Site Address: | 433 Roosevelt Ave. |
| Contaminant Limit 1: | | | | Site District Office: | Ottawa |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | 1075 | | | Site Region: | Eastern |
| Environment Impact: | | | | Site Municipality: | Ottawa |
| Nature of Impact: | | | | Site Lot: | |
| Receiving Medium: | | | | Site Conc: | |
| Receiving Env: | Air | | | Northing: | |
| MOE Response: | No | | | Easting: | |
| Dt MOE Arvl on Scn: | | | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 9/7/2019 | | | Site Map Datum: | |
| Dt Document Closed: | 10/24/2019 | | | SAC Action Class: | TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill Pipeline/Components |
| Incident Reason: | Operator/Human Error | | | Source Type: | |
| Site Name: | Residential<UNOFFICIAL> | | | | |
| Site County/District: | | | | | |
| Site Geo Ref Meth: | | | | | |
| Incident Summary: | TSSA FSB: Enbridge: 1/2" plastic IP nat gas line strike to atm. | | | | |
| Contaminant Qty: | 0 other - see incident description | | | | |

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|------------------------------|---|-----------|--------------|--|-------------|
| 35 | 2 of 2 | WSW/195.7 | 69.8 / -0.12 | ENBRIDGE GAS INC 433 ROOSEVELT AVE,,OTTAWA,ON,K2A 1Z4,CA ON | PINC |
| Incident ID: | | | | Fuel Category: | |
| Incident No: | 2679440 | | | Health Impact: | |
| Incident Reported Dt: | 9/9/2019 | | | Environment Impact: | |
| Type: | FS-Pipeline Incident | | | Property Damage: | |
| Status Code: | | | | Service Interrupt: | |
| Customer Acct Name: | ENBRIDGE GAS INC | | | Enforce Policy: | |
| Incident Address: | 433 ROOSEVELT AVE,,OTTAWA,ON,K2A 1Z4,CA | | | Public Relation: | |
| Tank Status: | Pipeline Damage Reason Est | | | Pipeline System: | |
| Task No: | | | | Depth: | |
| Spills Action Centre: | | | | Pipe Material: | |
| Fuel Type: | | | | PSIG: | |
| Fuel Occurrence Tp: | | | | Attribute Category: | |
| Date of Occurrence: | | | | Regulator Location: | |
| Occurrence Start Dt: | | | | Method Details: | |
| Operation Type: | | | | | |
| Pipeline Type: | | | | | |
| Regulator Type: | | | | | |
| Summary: | | | | | |
| Reported By: | | | | | |
| Affiliation: | | | | | |
| Occurrence Desc: | | | | | |
| Damage Reason: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------|-------------------|-------------------------|---------------|------|----|
|---------|-------------------|-------------------------|---------------|------|----|

Notes:

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|--------------------------|---|-----------|--------------|---|-------------|
| 36 | 1 of 1 | WSW/202.4 | 67.8 / -2.08 | DISTRICT REALTY 411 ROOSEVELT AVENUE OTTAWA ON K2A3X9 | GEN |
| Generator No: | ON9318155 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 531111 | | | | |
| SIC Description: | LESSORS OF RESIDENTIAL BUILDINGS AND DWELLINGS (EXCEPT SOCIAL HOUSING PROJECTS) | | | | |

Detail(s)

| | |
|--------------------------|-------------------------|
| Waste Class: | 252 |
| Waste Class Desc: | WASTE OILS & LUBRICANTS |

| | | | | | |
|-------------------------------|---|-----------|-------------|--|------|
| 37 | 1 of 1 | ESE/211.6 | 72.9 / 3.01 | 464 EVERED AVENUE OTTAWA ON K1Z 5K8 | HINC |
| External File Num: | FS INC 0810-06021 | | | | |
| Fuel Occurrence Type: | Pipeline Strike | | | | |
| Date of Occurrence: | 9/30/2008 | | | | |
| Fuel Type Involved: | Natural Gas | | | | |
| Status Desc: | Completed - Causal Analysis(End) | | | | |
| Job Type Desc: | Incident/Near-Miss Occurrence (FS) | | | | |
| Oper. Type Involved: | Construction Site (pipeline strike) | | | | |
| Service Interruptions: | Yes | | | | |
| Property Damage: | No | | | | |
| Fuel Life Cycle Stage: | Transmission, Distribution and Transportation | | | | |
| Root Cause: | Root Cause: Equipment/Material/Component:Yes Procedures:Yes Maintenance:No Design:No Training:Yes Management:No Human Factors:Yes | | | | |
| Reported Details: | | | | | |
| Fuel Category: | Gaseous Fuel | | | | |
| Occurrence Type: | Incident | | | | |
| Affiliation: | Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.) | | | | |
| County Name: | Ottawa | | | | |
| Approx. Quant. Rel: | | | | | |
| Nearby body of water: | | | | | |
| Enter Drainage Syst.: | | | | | |
| Approx. Quant. Unit: | | | | | |
| Environmental Impact: | | | | | |

| | | | | | |
|--------------------------|---------------|---------|--------------|--|-----|
| 38 | 1 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES 403 RICHMOND RD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 88,89,90 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 9731 | | | | |
| SIC Description: | FUNERAL HOMES | | | | |

Detail(s)

| | |
|---------------------|-----|
| Waste Class: | 312 |
|---------------------|-----|

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------------|----------------------------|------------------|--|-----|
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| 38 | 2 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES 44-171 403 RICHMOND RD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,94,95,96,97,98,99 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 9731 | | | | |
| SIC Description: | FUNERAL HOMES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 312 | | | | |
| Waste Class Desc: | PATHOLOGICAL WASTES | | | | |
| 38 | 3 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 00,01 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 9731 | | | | |
| SIC Description: | FUNERAL HOMES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 312 | | | | |
| Waste Class Desc: | PATHOLOGICAL WASTES | | | | |
| 38 | 4 of 16 | W/218.7 | 67.6 / -2.28 | J.A. TUBMAN FUNERAL HOMES LIMITED 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 02,03 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 | | | | |
| Waste Class Desc: | PHARMACEUTICALS | | | | |
| 38 | 5 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 04,05,06,07,08 | | | Choice of Contact: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|------------|
| Contam. Facility: MHSW Facility: SIC Code: 812210 SIC Description: Funeral Homes | | | | Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 261 PHARMACEUTICALS | | | |
| Waste Class: Waste Class Desc: | | 312 PATHOLOGICAL WASTES | | | |
| 38 | 6 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: ONF017100 Status: Approval Years: 2009 Contam. Facility: MHSW Facility: SIC Code: 812210 SIC Description: Funeral Homes | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 261 PHARMACEUTICALS | | | |
| Waste Class: Waste Class Desc: | | 312 PATHOLOGICAL WASTES | | | |
| 38 | 7 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: ONF017100 Status: Approval Years: 2010 Contam. Facility: MHSW Facility: SIC Code: 812210 SIC Description: Funeral Homes | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | | 261 PHARMACEUTICALS | | | |
| Waste Class: Waste Class Desc: | | 312 PATHOLOGICAL WASTES | | | |
| 38 | 8 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: ONF017100 Status: Approval Years: 2011 Contam. Facility: | | | | PO Box No: Country: Choice of Contact: Co Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|--|-----|
| MHSW Facility: SIC Code: 812210 SIC Description: Funeral Homes | | | | Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| Waste Class: 261 Waste Class Desc: PHARMACEUTICALS | | | | | |
| 38 | 9 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: ONF017100 Status: Approval Years: 2012 Contam. Facility: MHSW Facility: SIC Code: 812210 SIC Description: Funeral Homes | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 261 Waste Class Desc: PHARMACEUTICALS | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| 38 | 10 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON | GEN |
| Generator No: ONF017100 Status: Approval Years: 2013 Contam. Facility: MHSW Facility: SIC Code: 812210 SIC Description: | | | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: 261 Waste Class Desc: PHARMACEUTICALS | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |
| 38 | 11 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: ONF017100 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No | | | | PO Box No: Country: Canada Choice of Contact: CO_OFFICIAL Co Admin: Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------|-------------------|----------------------------|------------------|--|-------------|
| SIC Code: | 812210 | | | | |
| SIC Description: | | 812210 | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| <u>38</u> | 12 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 812210 | | | | |
| SIC Description: | | 812210 | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| <u>38</u> | 13 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2014 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | |
| MHSW Facility: | No | | | Phone No Admin: | |
| SIC Code: | 812210 | | | | |
| SIC Description: | | 812210 | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| <u>38</u> | 14 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | ONF017100 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------------|-------------------|----------------------------|------------------|--|-----|
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| <u>38</u> | 15 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | | ONF017100 | | PO Box No: | |
| Status: | | Registered | | Country: Canada | |
| Approval Years: | | As of Jul 2020 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| <u>38</u> | 16 of 16 | W/218.7 | 67.6 / -2.28 | TUBMAN FUNERAL HOMES AND CREMATION 403 RICHMOND ROAD OTTAWA ON K2A 0E9 | GEN |
| Generator No: | | ONF017100 | | PO Box No: | |
| Status: | | Registered | | Country: Canada | |
| Approval Years: | | As of Jan 2021 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| <u>39</u> | 1 of 1 | NW/219.8 | 66.8 / -3.04 | PRIVATE RESIDENCE HOUSE AT 356 WHITBY AVE FURNACE OIL TANK OTTAWA CITY ON K2A 0B5 | SPL |
| Ref No: | | 44037 | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | // | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | | UNKNOWN | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |
| Contaminant Limit 1: | | | | Site District Office: | |
| Contam Limit Freq 1: | | | | Site Postal Code: | |
| Contaminant UN No 1: | | | | Site Region: | |
| Environment Impact: | | POSSIBLE | | Site Municipality: 20101 | |
| Nature of Impact: | | Soil contamination | | Site Lot: | |
| Receiving Medium: | | LAND | | Site Conc: | |
| Receiving Env: | | | | Northing: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|---|----|
| MOE Response: Dt MOE Arvl on Scrn: MOE Reported Dt: 8/1/1996 Dt Document Closed: Incident Reason: UNKNOWN Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: PRIVATE RESIDENCE:UNK QUANTITY OF FURNACE OIL TO GROUND. Contaminant Qty: | | | | Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: | |

| | | | | | |
|--------------------------|---------------------|----------|--------------|--|-----------------|
| 40 | 1 of 4 | NW/220.9 | 66.8 / -3.10 | Cameron Veterinary Professional Corp 348 Whitby Ave Ottawa ON K2A 0B5 | GEN |
| Generator No: | ON3065966 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2016 | | | Choice of Contact: | CO_OFFICIAL |
| Contam. Facility: | No | | | Co Admin: | Dan Cameron |
| MHSW Facility: | No | | | Phone No Admin: | 6137225717 Ext. |
| SIC Code: | 541940 | | | | |
| SIC Description: | VETERINARY SERVICES | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 | | | | |
| Waste Class Desc: | PHARMACEUTICALS | | | | |
| Waste Class: | 312 | | | | |
| Waste Class Desc: | PATHOLOGICAL WASTES | | | | |

| | | | | | |
|--------------------------|--|----------|--------------|--|--------|
| 40 | 2 of 4 | NW/220.9 | 66.8 / -3.10 | Cameron Veterinary Professional Corp 348 Whitby Ave Ottawa ON K2A 0B5 | GEN |
| Generator No: | ON3065966 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 122 C | | | | |
| Waste Class Desc: | Alkaline slutions - containing other metals and non-metals (not cyanide) | | | | |
| Waste Class: | 212 I | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 212 L | | | | |
| Waste Class Desc: | Aliphatic solvents and residues | | | | |
| Waste Class: | 252 L | | | | |
| Waste Class Desc: | Waste crankcase oils and lubricants | | | | |
| Waste Class: | 261 A | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |
| Waste Class: | 264 L | | | | |
| Waste Class Desc: | Photoprocessing wastes | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|---------------------------------|------------------|--|--------|
| Waste Class: | | 264 T | | | |
| Waste Class Desc: | | Photoprocessing wastes | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| 40 | 3 of 4 | NW/220.9 | 66.8 / -3.10 | Cameron Veterinary Professional Corp 348 Whitby Ave Ottawa ON K2A 0B5 | GEN |
| Generator No: | | ON3065966 | | PO Box No: | |
| Status: | | Registered | | Country: | Canada |
| Approval Years: | | As of Jul 2020 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 A | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |
| Waste Class: | | 212 I | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| Waste Class: | | 264 L | | | |
| Waste Class Desc: | | Photoprocessing wastes | | | |
| Waste Class: | | 212 L | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| 40 | 4 of 4 | NW/220.9 | 66.8 / -3.10 | Cameron Veterinary Professional Corp 348 Whitby Ave Ottawa ON K2A 0B5 | GEN |
| Generator No: | | ON3065966 | | PO Box No: | |
| Status: | | Registered | | Country: | Canada |
| Approval Years: | | As of Jan 2021 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 212 I | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| Waste Class: | | 212 L | | | |
| Waste Class Desc: | | Aliphatic solvents and residues | | | |
| Waste Class: | | 264 L | | | |
| Waste Class Desc: | | Photoprocessing wastes | | | |
| Waste Class: | | 261 A | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|------------------------|----------------------------|------------------|---|-----|
| Waste Class Desc: | | Pharmaceuticals | | | |
| 41 | 1 of 12 | NNW/224.8 | 66.9 / -3.00 | METROTYPE GRAPHICS LTD. 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | GEN |
| Generator No: | ON0785600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 88,89 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 2821 | | | | |
| SIC Description: | PLATEMAKING, ETC. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 264 | | | | |
| Waste Class Desc: | PHOTOPROCESSING WASTES | | | | |
| 41 | 2 of 12 | NNW/224.8 | 66.9 / -3.00 | METROTYPE GRAPHICS LTD. 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | GEN |
| Generator No: | ON0785600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 90 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 2821 | | | | |
| SIC Description: | PLATEMAKING, ETC. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 264 | | | | |
| Waste Class Desc: | PHOTOPROCESSING WASTES | | | | |
| 41 | 3 of 12 | NNW/224.8 | 66.9 / -3.00 | METROTYPE GRAPHICS LTD. 26-238 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | GEN |
| Generator No: | ON0785600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 92,93,94,95,96 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | 2821 | | | | |
| SIC Description: | PLATEMAKING, ETC. | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 264 | | | | |
| Waste Class Desc: | PHOTOPROCESSING WASTES | | | | |
| 41 | 4 of 12 | NNW/224.8 | 66.9 / -3.00 | METRO(OUT OF BUS) 26-238 364 CHURCHILL STREET NORTH OTTAWA ON K1Z 5G9 | GEN |
| Generator No: | ON0785600 | | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | 97,98 | | | Choice of Contact: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|------------------------------|----------------------------|---------------------|---|------------|
| Contam. Facility: MHSW Facility: SIC Code: SIC Description: | 2821 | PLATEMAKING, ETC. | | Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 264 | PHOTOPROCESSING WASTES | | | |
| 41 | 5 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON2549408 07,08 541940 | Veterinary Services | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 261 | PHARMACEUTICALS | | | |
| Waste Class: Waste Class Desc: | 312 | PATHOLOGICAL WASTES | | | |
| 41 | 6 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON2549408 2009 541940 | Veterinary Services | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: Waste Class Desc: | 312 | PATHOLOGICAL WASTES | | | |
| Waste Class: Waste Class Desc: | 261 | PHARMACEUTICALS | | | |
| 41 | 7 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: Status: Approval Years: Contam. Facility: MHSW Facility: SIC Code: SIC Description: | ON2549408 2010 541940 | Veterinary Services | | PO Box No: Country: Choice of Contact: Co Admin: Phone No Admin: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|--|-----|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| 41 | 8 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: | | ON2549408 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2011 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 541940 | | | |
| SIC Description: | | Veterinary Services | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| 41 | 9 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: | | ON2549408 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2012 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 541940 | | | |
| SIC Description: | | Veterinary Services | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| 41 | 10 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON | GEN |
| Generator No: | | ON2549408 | | PO Box No: | |
| Status: | | | | Country: | |
| Approval Years: | | 2013 | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | 541940 | | | |
| SIC Description: | | VETERINARY SERVICES | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|-------------------------------|------------------|--|------------|
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| 41 | 11 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: | | ON2549408 | | PO Box No: | |
| Status: | | | | Country: Canada | |
| Approval Years: | | 2015 | | Choice of Contact: CO_OFFICIAL | |
| Contam. Facility: | | No | | Co Admin: | |
| MHSW Facility: | | No | | Phone No Admin: | |
| SIC Code: | | 541940 | | | |
| SIC Description: | | VETERINARY SERVICES | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| 41 | 12 of 12 | NNW/224.8 | 66.9 / -3.00 | Cameron Veterinary Professional Corporation 364 Churchill Avenue North Ottawa ON K1Z 5C2 | GEN |
| Generator No: | | ON2549408 | | PO Box No: | |
| Status: | | | | Country: Canada | |
| Approval Years: | | 2014 | | Choice of Contact: CO_OFFICIAL | |
| Contam. Facility: | | No | | Co Admin: | |
| MHSW Facility: | | No | | Phone No Admin: | |
| SIC Code: | | 541940 | | | |
| SIC Description: | | VETERINARY SERVICES | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| 42 | 1 of 1 | NNW/225.3 | 66.8 / -3.08 | CANADIAN WASTE SERVICES 363 CHURCHILL, NORTH OF RICHMOND MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON | SPL |
| Ref No: | | 207678 | | Discharger Report: | |
| Site No: | | | | Material Group: | |
| Incident Dt: | | 8/2/2001 | | Health/Env Conseq: | |
| Year: | | | | Client Type: | |
| Incident Cause: | | VALVE/FITTING LEAK OR FAILURE | | Sector Type: | |
| Incident Event: | | | | Agency Involved: | |
| Contaminant Code: | | | | Nearest Watercourse: | |
| Contaminant Name: | | | | Site Address: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|----------------------------|------------------|--|------|
| Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Other Receiving Medium: Land, Water Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 8/2/2001 Dt Document Closed: Incident Reason: MATERIAL FAILURE Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: CAN WASTE: TRUCK BLEW HYDRAULIC LINE, 140 L TO ROAD, C/B-CLEANING Contaminant Qty: | | | | Site District Office: Site Postal Code: Site Region: Site Municipality: 20107 Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type: | |
| 43 | 1 of 2 | ENE/227.9 | 68.8 / -1.06 | ZONE 5 LANDSCAPING INC 409 EDGEWOOD AVE,, OTTAWA, ON, K1Z 5K6, CA ON | PINC |
| Incident ID: Incident No: 1732174 Incident Reported Dt: 10/6/2015 Type: FS-Pipeline Incident Status Code: Customer Acct Name: ZONE 5 LANDSCAPING INC Incident Address: 409 EDGEWOOD AVE,, OTTAWA, ON, K1Z 5K6, CA Tank Status: Pipeline Damage Reason Est Task No: 5891737 Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: 2015/10/06 Operation Type: Pipeline Type: Regulator Type: Summary: 409 EDGEWOOD AVENUE, OTTAWA - PIPELINE HIT - 1 ¼" Reported By: Peter O'Gorman - ENBRIDGE Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes: | | | | Fuel Category: Natural Gas Health Impact: Environment Impact: Property Damage: Yes Service Interrupt: Enforce Policy: Yes Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Method Details: E-mail | |
| 43 | 2 of 2 | ENE/227.9 | 68.8 / -1.06 | Enbridge Gas Distribution Inc. 409 Edgewood Avenue Ottawa ON | SPL |
| Ref No: 6661-A32JXW Site No: NA Incident Dt: 10/6/2015 Year: Incident Cause: Incident Event: Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: | | | | Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Unknown / N/A Agency Involved: Nearest Watercourse: Site Address: 409 Edgewood Avenue Site District Office: Site Postal Code: Site Region: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|-------------------|----------------------------|------------------|--|------|
| Environment Impact: Nature of Impact: Receiving Medium: Receiving Env: MOE Response: No Dt MOE Arvl on Scn: MOE Reported Dt: 10/6/2015 Dt Document Closed: 11/27/2015 | | | | Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill | |
| Incident Reason: Operator/Human Error Site Name: Residential Line Strike<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA FSB: 1 1/4" pl intermediate main dmgd; made safe Contaminant Qty: 0 other - see incident description | | | | Source Type: | |
| 44 | 1 of 2 | ENE/248.5 | 69.8 / -0.05 | 424 Athlone St Ottawa ON | SPL |
| Ref No: 6566-9UVP49 Site No: NA Incident Dt: 3/23/2015 Year: Incident Cause: Leak/Break Incident Event: Contaminant Code: 35 Contaminant Name: METHANE GAS, COMPRESSED (NATURAL GAS) | | | | Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: 424 Athlone St | |
| Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Nature of Impact: Air Receiving Medium: Receiving Env: MOE Response: N Dt MOE Arvl on Scn: MOE Reported Dt: 3/23/2015 Dt Document Closed: Incident Reason: Material Failure - Poor Design/Substandard Material Site Name: line strike<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA: line strike 424 Athlone St, made safe Contaminant Qty: 1 other - see incident description | | | | Site District Office: Site Postal Code: Site Region: Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Air Spills - Gases and Vapours Source Type: | |
| 44 | 2 of 2 | ENE/248.5 | 69.8 / -0.05 | GARY PATRICK GEHL 424 ATHLONE AVE., OTTAWA, ON, K1Z 5M5, CA ON | PINC |
| Incident ID: Incident No: 1602350 Incident Reported Dt: 3/23/2015 Type: FS-Pipeline Incident Status Code: Customer Acct Name: GARY PATRICK GEHL Incident Address: 424 ATHLONE AVE., OTTAWA, ON, K1Z 5M5, CA Tank Status: Pipeline Damage Reason Est Task No: 5415185 Spills Action Centre: | | | | Fuel Category: Natural Gas Health Impact: Environment Impact: Property Damage: Yes Service Interupt: Enforce Policy: Yes Public Relation: Pipeline System: Depth: Pipe Material: | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---|-------------------|--|---------------|------|----|
| Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: 2015/03/24 Operation Type: Pipeline Type: Regulator Type: Summary: 424 ATHLONE AVENUE, OTTAWA - PIPELINE HIT - 1 ¼" Reported By: Tracy Penney - ENBRIDGE Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes: | | PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Method Details: E-mail | | | |

| | | | | | |
|---|--------|---|--------------|---|-----|
| 45 | 1 of 1 | ENE/249.4 | 68.9 / -1.01 | 8596239 Canada Inc.<UNOFFICIAL> 400 Athlone Ave Ottawa ON | SPL |
| Ref No: 7053-9DKMY8 Site No: Incident Dt: 2013/11/14 Year: Incident Cause: Vandalism Incident Event: Contaminant Code: 15 Contaminant Name: HYDRAULIC OIL Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Possible Nature of Impact: Soil Contamination Receiving Medium: Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 2013/11/18 Dt Document Closed: Incident Reason: Deliberate Act Site Name: construction site<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: 400 Athlone Ave: excavator fire, fuel & operating fluids Contaminant Qty: 0 other - see incident description | | Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Motor Vehicle Agency Involved: Nearest Watercourse: Site Address: 400 Athlone Ave Site District Office: Site Postal Code: Site Region: Site Municipality: Ottawa Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Land Spills Source Type: | | | |

| | | | | | |
|---|--------|---|--------------|---|-----|
| 46 | 1 of 5 | WSW/249.6 | 67.1 / -2.74 | J. Clark Pharmacy Care Ltd. 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | GEN |
| Generator No: ON7312008 Status: Approval Years: 2016 Contam. Facility: No MHSW Facility: No SIC Code: 446110 SIC Description: 446110 | | PO Box No: Country: Canada Choice of Contact: CO_ADMIN Co Admin: NASTRAN NAJAFI-FARD Phone No Admin: 4164931120 Ext.3218 | | | |
| Detail(s) | | | | | |
| Waste Class: 312 Waste Class Desc: PATHOLOGICAL WASTES | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--------------------------|-------------------|----------------------------|------------------|---|---------------------|
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| 46 | 2 of 5 | WSW/249.6 | 67.1 / -2.74 | J. Clark Pharmacy Care Ltd. 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | GEN |
| Generator No: | ON7312008 | | | PO Box No: | |
| Status: | | | | Country: | Canada |
| Approval Years: | 2015 | | | Choice of Contact: | CO_ADMIN |
| Contam. Facility: | No | | | Co Admin: | NASTRAN NAJAFI-FARD |
| MHSW Facility: | No | | | Phone No Admin: | 4164931120 Ext.3218 |
| SIC Code: | 446110 | | | | |
| SIC Description: | 446110 | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 312 | | | |
| Waste Class Desc: | | PATHOLOGICAL WASTES | | | |
| Waste Class: | | 261 | | | |
| Waste Class Desc: | | PHARMACEUTICALS | | | |
| 46 | 3 of 5 | WSW/249.6 | 67.1 / -2.74 | J. Clark Pharmacy Care Ltd. 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | GEN |
| Generator No: | ON7312008 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Dec 2018 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 A | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |
| Waste Class: | | 312 P | | | |
| Waste Class Desc: | | Pathological wastes | | | |
| 46 | 4 of 5 | WSW/249.6 | 67.1 / -2.74 | J. Clark Pharmacy Care Ltd. 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | GEN |
| Generator No: | ON7312008 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jul 2020 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | | 261 A | | | |
| Waste Class Desc: | | Pharmaceuticals | | | |
| Waste Class: | | 312 P | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|---------------------------|--|----------------------------|------------------|--|--------|
| Waste Class Desc: | | Pathological wastes | | | |
| 46 | 5 of 5 | WSW/249.6 | 67.1 / -2.74 | J. Clark Pharmacy Care Ltd. 410 RICHMOND ROAD OTTAWA ON K2A 4C4 | GEN |
| Generator No: | ON7312008 | | | PO Box No: | |
| Status: | Registered | | | Country: | Canada |
| Approval Years: | As of Jan 2021 | | | Choice of Contact: | |
| Contam. Facility: | | | | Co Admin: | |
| MHSW Facility: | | | | Phone No Admin: | |
| SIC Code: | | | | | |
| SIC Description: | | | | | |
| <u>Detail(s)</u> | | | | | |
| Waste Class: | 261 A | | | | |
| Waste Class Desc: | Pharmaceuticals | | | | |
| Waste Class: | 312 P | | | | |
| Waste Class Desc: | Pathological wastes | | | | |
| 47 | 1 of 4 | NE/249.6 | 68.0 / -1.86 | Y'S OWL CO-OPERATIVE INC 290 PICTON AVE OTTAWA ON K1Z 8P8 | SCT |
| Established: | 1981 | | | | |
| Plant Size (ft²): | 8000 | | | | |
| Employment: | 17 | | | | |
| <u>--Details--</u> | | | | | |
| Description: | PLASTICS PRODUCTS, N.E.C. | | | | |
| SIC/NAICS Code: | 3089 | | | | |
| 47 | 2 of 4 | NE/249.6 | 68.0 / -1.86 | Orezone Resources Inc. 290 Picton St Suite 201 Ottawa ON K1Z 8P8 | SCT |
| Established: | 1987 | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | 10 | | | | |
| 47 | 3 of 4 | NE/249.6 | 68.0 / -1.86 | Apption Software Inc. 290 Picton Ave Suite 104 Ottawa ON K1Z 8P8 | SCT |
| Established: | 01-NOV-04 | | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| <u>--Details--</u> | | | | | |
| Description: | Computer Systems Design and Related Services | | | | |
| SIC/NAICS Code: | 541510 | | | | |
| Description: | Computer Systems Design and Related Services | | | | |
| SIC/NAICS Code: | 541510 | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|-----------------------|-------------------|--|------------------|---|------|
| 47 | 4 of 4 | NE/249.6 | 68.0 / -1.86 | Orezone Gold Corporation 290 Picton Ave Suite 201 Ottawa ON K1Z 8P8 | SCT |
| Established: | | 01-JUL-87 | | | |
| Plant Size (ft²): | | | | | |
| Employment: | | | | | |
| --Details-- | | | | | |
| Description: | | Other Support Activities for Mining | | | |
| SIC/NAICS Code: | | 213119 | | | |
| 48 | 1 of 2 | N/249.7 | 66.8 / -3.05 | PIPELINE HIT - 2" 310 ELMGROVE AVE,,OTTAWA,ON,K1Z 6V1,CA ON | PINC |
| Incident ID: | | | | | |
| Incident No: | | 1899576 | | | |
| Incident Reported Dt: | | 7/8/2016 | | | |
| Type: | | FS-Pipeline Incident | | | |
| Status Code: | | | | | |
| Customer Acct Name: | | PIPELINE HIT - 2" | | | |
| Incident Address: | | 310 ELMGROVE AVE,,OTTAWA,ON,K1Z 6V1,CA | | | |
| Tank Status: | | Pipeline Damage Reason Est | | | |
| Task No: | | 6241143 | | | |
| Spills Action Centre: | | | | | |
| Fuel Type: | | | | | |
| Fuel Occurrence Tp: | | | | | |
| Date of Occurrence: | | | | | |
| Occurrence Start Dt: | | 2016/07/18 | | | |
| Operation Type: | | | | | |
| Pipeline Type: | | | | | |
| Regulator Type: | | | | | |
| Summary: | | 310 ELMGROVE AVE, OTTAWA - PIPELINE HIT - 2" | | | |
| Reported By: | | Bernie Monette - ENBRIDGE | | | |
| Affiliation: | | | | | |
| Occurrence Desc: | | | | | |
| Damage Reason: | | Facility was not located or marked | | | |
| Notes: | | | | | |
| 48 | 2 of 2 | N/249.7 | 66.8 / -3.05 | Enbridge Gas Distribution Inc. 310 Elmsgrove Ave Ottawa ON | SPL |
| Ref No: | | 2365-ABMRJS | | | |
| Site No: | | NA | | | |
| Incident Dt: | | 2016/07/07 | | | |
| Year: | | | | | |
| Incident Cause: | | | | | |
| Incident Event: | | Leak/Break | | | |
| Contaminant Code: | | 35 | | | |
| Contaminant Name: | | NATURAL GAS (METHANE) | | | |
| Contaminant Limit 1: | | | | | |
| Contam Limit Freq 1: | | | | | |
| Contaminant UN No 1: | | | | | |
| Environment Impact: | | | | | |
| Nature of Impact: | | | | | |
| Receiving Medium: | | | | | |
| Receiving Env: | | Air | | | |
| Discharger Report: | | | | | |
| Material Group: | | | | | |
| Health/Env Conseq: | | | | | |
| Client Type: | | | | | |
| Sector Type: | | Miscellaneous Industrial | | | |
| Agency Involved: | | | | | |
| Nearest Watercourse: | | | | | |
| Site Address: | | 310 Elmsgrove Ave | | | |
| Site District Office: | | | | | |
| Site Postal Code: | | | | | |
| Site Region: | | | | | |
| Site Municipality: | | Ottawa | | | |
| Site Lot: | | | | | |
| Site Conc: | | | | | |
| Northing: | | | | | |

| Map Key | Number of Records | Direction/ Distance (m) | Elev/Diff (m) | Site | DB |
|--|---|----------------------------|------------------|--|--|
| MOE Response: Dt MOE Arvl on Scrn: MOE Reported Dt: Dt Document Closed: | No 2016/07/07 2016/08/10 | | | Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: | TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill |
| Incident Reason: Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: Contaminant Qty: | Operator/Human Error Residential<UNOFFICIAL> TSSA 2 inch main damage, made safe 0 other - see incident description | | | Source Type: | |

| | | | | | |
|--|--|------------------|--------------------|---|---|
| 49 | 1 of 1 | ENE/249.8 | 69.9 / 0.00 | BEAVER CONSTRUCTION GROUP INC 422 ATHLONE AVE,, OTTAWA, ON, K1Z 5M5, CA ON | PINC |
| Incident ID: Incident No: Incident Reported Dt: Type: Status Code: Customer Acct Name: Incident Address: Tank Status: Task No: Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: Operation Type: Pipeline Type: Regulator Type: Summary: Reported By: Affiliation: Occurrence Desc: Damage Reason: Notes: | 1609794 4/2/2015 FS-Pipeline Incident BEAVER CONSTRUCTION GROUP INC 422 ATHLONE AVE., OTTAWA, ON, K1Z 5M5, CA Pipeline Damage Reason Est 5430081 2105/04/02 422 ATHLONE AVE, OTTAWA - PIPELINE HIT 1 1/4" Jeff Stiles - Enbridge Gas Excavation practices not sufficient | | | Fuel Category: Health Impact: Environment Impact: Property Damage: Service Interupt: Enforce Policy: Public Relation: Pipeline System: Depth: Pipe Material: PSIG: Attribute Category: Regulator Location: Method Details: | Natural Gas Yes Yes FS-Perform P-line Inc Invest E-mail |

| | | | | | |
|---|---|------------------|---------------------|--|------------|
| 50 | 1 of 2 | WSW/250.1 | 67.2 / -2.72 | DOUBLE L PRINTERS 416 RICHMOND RD OTTAWA ON K2A 0G2 | SCT |
| Established: Plant Size (ft²): Employment: --Details-- Description: SIC/NAICS Code: Description: SIC/NAICS Code: Description: SIC/NAICS Code: Description: SIC/NAICS Code: | 1969 2500 6 COMMERCIAL PRINTING, LITHOGRAPHIC 2752 COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED 2759 Quick Printing 323114 Digital Printing 323115 | | | | |

| <i>Map Key</i> | <i>Number of Records</i> | <i>Direction/ Distance (m)</i> | <i>Elev/Diff (m)</i> | <i>Site</i> | <i>DB</i> |
|---|--------------------------|--------------------------------|----------------------|---|-----------|
| <i>Description:</i> <i>SIC/NAICS Code:</i> | | Other Printing 323119 | | | |
| 50 | 2 of 2 | WSW/250.1 | 67.2 / -2.72 | Double L Printers - Div. of 595511 Ontario Inc. 416 Richmond Rd Ottawa ON K2A 0G2 | SCT |
| <i>Established:</i> | | 1969 | | | |
| <i>Plant Size (ft²):</i> | | 2500 | | | |
| <i>Employment:</i> | | 6 | | | |

Unplottable Summary

Total: **3** Unplottable sites

| DB | Company Name/Site Name | Address | City | Postal |
|-----|---|---|----------------|---------|
| GEN | Kiewit Eurovia Vinci | Cleary Station Richmond Road | Ottawa ON | K2A 0G6 |
| GEN | Ottawa Greenbelt Construction Company Limited | Churchill Ave Reconstruction - Carling to Byron | Ottawa ON | |
| SPL | TEXACO | RICHMOND RD. SERVICE STATION | OTTAWA CITY ON | |

Unplottable Report

Site: *Kiewit Eurovia Vinci
Cleary Station Richmond Road Ottawa ON K2A 0G6*

Database:
GEN

| | | | |
|--------------------------|----------------|---------------------------|--------|
| Generator No: | ON6388739 | PO Box No: | |
| Status: | Registered | Country: | Canada |
| Approval Years: | As of Jan 2021 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | | | |
| SIC Description: | | | |

Detail(s)

Waste Class: 146 L
Waste Class Desc: Other specified inorganic sludges, slurries or solids

Waste Class: 221 L
Waste Class Desc: Light fuels

Site: *Ottawa Greenbelt Construction Company Limited
Churchill Ave Reconstruction - Carling to Byron Ottawa ON*

Database:
GEN

| | | | |
|--------------------------|--|---------------------------|--|
| Generator No: | ON4886021 | PO Box No: | |
| Status: | | Country: | |
| Approval Years: | 2013 | Choice of Contact: | |
| Contam. Facility: | | Co Admin: | |
| MHSW Facility: | | Phone No Admin: | |
| SIC Code: | 237110 | | |
| SIC Description: | WATER AND SEWER LINE AND RELATED STRUCTURES CONSTRUCTION | | |

Detail(s)

Waste Class: 251
Waste Class Desc: OIL SKIMMINGS & SLUDGES

Site: *TEXACO
RICHMOND RD. SERVICE STATION OTTAWA CITY ON*

Database:
SPL

| | | | |
|-----------------------------|----------------------|------------------------------|-------|
| Ref No: | 14431 | Discharger Report: | |
| Site No: | | Material Group: | |
| Incident Dt: | 2/2/1989 | Health/Env Conseq: | |
| Year: | | Client Type: | |
| Incident Cause: | OTHER CAUSE (N.O.S.) | Sector Type: | |
| Incident Event: | | Agency Involved: | |
| Contaminant Code: | | Nearest Watercourse: | |
| Contaminant Name: | | Site Address: | |
| Contaminant Limit 1: | | Site District Office: | |
| Contam Limit Freq 1: | | Site Postal Code: | |
| Contaminant UN No 1: | | Site Region: | |
| Environment Impact: | NOT ANTICIPATED | Site Municipality: | 20101 |
| Nature of Impact: | | Site Lot: | |
| Receiving Medium: | LAND | Site Conc: | |
| Receiving Env: | | Northing: | |
| MOE Response: | | Easting: | |
| Dt MOE Arvl on Scn: | | Site Geo Ref Accu: | |
| MOE Reported Dt: | 2/2/1989 | Site Map Datum: | |

Dt Document Closed:
Incident Reason: ERROR
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary:
Contaminant Qty:

SAC Action Class:
Source Type:

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

The Ontario Ministry of Natural Resources maintains a database of all active pits and quarries. The database provides information regarding the registered owner/operator, location name, operation type, approval type, and maximum annual tonnage.

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private [ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Dec 31, 2020

Borehole:

Provincial [BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2018

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Dec 31, 2020

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Dec 2020

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Nov 2020

Certificates of Property Use:

Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994-Feb 28, 2021

Drill Hole Database:

Provincial [DRL](#)

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial [DTNK](#)

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Jul 31, 2020

Environmental Activity and Sector Registry:

Provincial [EASR](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Jan 31, 2021

Environmental Registry:

Provincial [EBR](#)

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994-Feb 28, 2021

Environmental Compliance Approval:

Provincial [ECA](#)

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Jan 31, 2021

Environmental Effects Monitoring:

Federal [EEM](#)

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private [EHS](#)

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Jan 31, 2021

Environmental Issues Inventory System:

Federal [EIIS](#)

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2019

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jan 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Jan 31, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2018

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial

[MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

Federal

[NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial

[NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2018

National Defense & Canadian Forces Fuel Tanks:

Federal

[NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal

[NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal

[NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal

[NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Dec 31, 2020

National Energy Board Wells:

Federal

[NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory:

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory:

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017

Oil and Gas Wells:

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Aug 31, 2020

Ontario Oil and Gas Wells:

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jun 2020

Inventory of PCB Storage Sites:

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders:

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994-Feb 28, 2021

Canadian Pulp and Paper:

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks:

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

| | | |
|---|------------|-------------|
| <u>Pesticide Register:</u> | Provincial | PES |
| The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides. | | |
| Government Publication Date: Oct 2011-Jan 31, 2021 | | |
| <u>Pipeline Incidents:</u> | Provincial | PINC |
| List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness. | | |
| Government Publication Date: Oct 31, 2020 | | |
| <u>Private and Retail Fuel Storage Tanks:</u> | Provincial | PRT |
| The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA). | | |
| Government Publication Date: 1989-1996* | | |
| <u>Permit to Take Water:</u> | Provincial | PTTW |
| This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water. | | |
| Government Publication Date: 1994-Feb 28, 2021 | | |
| <u>Ontario Regulation 347 Waste Receivers Summary:</u> | Provincial | REC |
| Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data. | | |
| Government Publication Date: 1986-2016 | | |
| <u>Record of Site Condition:</u> | Provincial | RSC |
| The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. | | |
| RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). | | |
| Government Publication Date: 1997-Sept 2001, Oct 2004-Jan 2021 | | |
| <u>Retail Fuel Storage Tanks:</u> | Private | RST |
| This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks. | | |
| Government Publication Date: 1999-Dec 31, 2020 | | |
| <u>Scott's Manufacturing Directory:</u> | Private | SCOT |
| Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database. | | |
| Government Publication Date: 1992-Mar 2011* | | |
| <u>Ontario Spills:</u> | Provincial | SPL |
| List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. | | |
| Government Publication Date: 1988-Mar 2020; Jul 2020 - Aug 2020 | | |

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2017

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: Jul 31, 2020

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Jan 31, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.