REPORT

# PLAINS ROAD & FAIRVIEW STREET DEVELOPMENT

BURLINGTON, ONTARIO

## AIR QUALITY ASSESSMENT

RWDI #2004217

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### SUBMITTED TO

**Vince Molinaro**
President
vincemol@molinaro.ca

**Plains Road East Joint Venture**
472 Brock Avenue Unit 103
Burlington, ON L7S 1N1

### SUBMITTED BY

**Dan Bacon**
Project Delivery Manager, Principal
Dan.Bacon@rwdi.com

**Tara Bailey, P.Eng.**
Senior Engineer
Tara.Bailey@rwdi.com

**Juan Castillo, B.Eng.**
Air Quality Scientist
Juan.Castillo@rwdi.com

**RWDI**
600 Southgate Drive,
Guelph, Canada, N1G 4P6
T: 519.823.1311
F: 519.823.1316



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# 1 INTRODUCTION

RWDI was retained by Plains Road East Joint Venture to conduct a Transportation Related Air Pollutants (TRAP) Study for the proposed residential development to be located at the northwest corner of Plains Road and Fairview Street ("subject lands") in Burlington, Ontario. The proposed development consists of two Parcels. Parcel A will consist of a 35-storey and a 30-storey tower connected with a 2-storey podium. Parcel B will include 30-storey and 22-storey towers connected with a 2-storey podium. Figure 1 shows a site layout with receptor locations at the proposed towers. The TRAP assessment addresses air quality effects associated with vehicle and diesel locomotive traffic in the vicinity of the subject lands.

Note that the results presented herein are based on an earlier iteration of this design with a shorter version of the Parcel B towers. RWDI does not expect the alteration to materially change the conclusions of this report.

# 2 METHODOLOGY

The TRAP study followed the approach requested previously by the City of Burlington for similar projects. It relied on the following two components:

- Air quality monitoring data published by Environment Canada and/or the Ministry of Environment, Conservation, and Parks (MECP) to estimate what current air quality conditions are at the subject lands if the Queen Elizabeth Way (QEW) and Canadian National (CN) railway were not located in close proximity to the development (referred to as background air quality); and
- A computer simulation technique known as dispersion modelling to predict the contribution of vehicle exhaust from a section of the QEW and the contribution of nearby CN railway emissions to contaminant levels at the proposed development.

The predicted concentrations of air contaminants contributed by the QEW and CN railway were added to the estimated background concentrations. The resulting cumulative concentrations were compared to relevant air quality objectives.

## 2.1 Air Pollutants of Interest

The TRAP study assessed the following key air pollutants associated with motor vehicles and diesel locomotives: nitrogen dioxide ($NO_2$), inhalable particulate matter ($PM_{10}$), respirable particulate matter ($PM_{2.5}$), benzo(a)pyrene, benzene, 1,3-butadiene, acrolein, acetaldehyde, formaldehyde, and carbon monoxide (CO). Table 1 lists the ambient air quality objectives for these air contaminants that have been established by the provincial and federal governments. For each air contaminant, the objectives consist of upper limits of desired concentration in air, for various averaging periods, presented in units of micrograms per cubic metre of air ($\mu g/m^3$).

**Table 1: Air Quality Criteria**

| Pollutant | Basis | Objective (µg/m³) | Description |
|---|---|---|---|
| **$NO_2$** | Max 1-hour concentration | 400 | Ontario Ambient Air Quality Criterion (AAQC) |
| | Max 24-hour concentration | 200 | AAQC |
| | Annual 8th highest daily max 1-hour concentration (3-year average) | 83 | 2025 Canadian Ambient Air Quality Standard (CAAQS) |
| | 1-year average concentration | 24 | 2025 CAAQS |
| **Benzene** | Maximum 24-hour concentration | 2.3 | AAQC |
| | 1-year Average concentration | 0.45 | AAQC |
| **$PM_{10}$** | Max 24-hour concentration | 50 | AAQC |
| **$PM_{2.5}$** | 8th highest 24-hour concentration | 27 | 2020 CAAQS |
| | 3-year Average | 8.8 | 2020 CAAQS |
| **Benzo(a)pyrene** | Maximum 24-hour concentration | 5.0E-05 | AAQC |
| | 1-year Average concentration | 1.0E-05 | |
| **Acrolein** | Maximum 1-hour concentration | 4.5 | AAQC |
| | Maximum 24-hour concentration | 0.4 | |
| **Acetaldehyde** | Maximum 1-hour concentration | 500 | AAQC |
| **1,3-Butadiene** | Maximum 24-hour concentration | 10 | AAQC |
| | 1-year Average concentration | 2 | |
| **Formaldehyde** | Maximum 1-hour concentration | 65 | AAQC |
| **CO** | Maximum 1-hour concentration | 36,200 | AAQC |
| | Maximum 8-hour concentration | 15,700 | |

## 2.2 Estimating Background Concentrations

Background pollutant concentrations were estimated using monitoring data from Environment and Climate Change Canada's National Pollutant Surveillance (NAPS) program. In addition to air pollutants identified in Section 2.1, monitoring data for ground-level ozone ($O_3$) was obtained, as it is used to predict $NO_2$ concentrations contributed by highway and railway traffic.

All monitoring data came from the NAPS monitoring stations (Table 2). Each station is located in an urban or suburban setting well removed from major highway and rail corridors. Since the monitoring data was recorded near the ground, they are likely to overestimate background concentrations at the upper floors of the towers of the proposed development. Thus, the background data represent a conservatively high estimate of background conditions.

In the case of $NO_2$, $O_3$, CO and $PM_{2.5}$, hourly monitoring data were available. For $PM_{10}$, background concentrations were estimated by scaling the $PM_{2.5}$ concentrations by a factor of two. These data were analyzed to determine representative values of background concentration to be added to the predicted concentrations contributed by the QEW and railway. For short averaging periods (1 hour, 8 hours and 24 hours) the representative values consisted of 90th percentile concentrations (in keeping with widely accepted practice) by hour of the day. For the annual averaging period the representative values consisted of annual average values by hour of the day.

For benzene, benzo(a)pyrene, 1,3-butadiene, formaldehyde, acetaldehyde and acrolein, the monitoring data consisted of 24-hour average concentrations. It was not possible to calculate background values by hour of the day, therefore, for these contaminants, the background concentrations for the 24-hour averaging period consisted of 90$^{th}$ percentile values. The sources of background monitoring data used for this study are presented in Table 2.

**Table 2: Source of Background Monitoring Data Used in Study**

| Chemical | NAPS ID and Location | Years included |
|---|---|---|
| NO2 | 60512 - Hamilton Downtown<br>60513 - Hamilton Mountain<br>63001 – Burlington<br>MECCP 29118 - Hamilton West | 2013 to 2017 |
| Benzene | 60512 - Hamilton Downtown | 2013 to 2017 |
| $PM_{10}$ | No Data Available | |
| $PM_{2.5}$ | 60512 - Hamilton Downtown<br>60513 - Hamilton Mountain<br>63001 – Burlington<br>MECCP 29118 - Hamilton West | 2013 to 2017 |
| Acrolein | 60211 – Windsor West (College and South St.)<br>60439 - Roadside-Wallberg (UofT) | 2014 to 2016 |
| Benzo(a) Pyrene | 60512 - Hamilton Downtown | 2013, to 2016 |

| Chemical | NAPS ID and Location | Years included |
|---|---|---|
| Acetaldehyde | 60211 – Windsor West (College and South St.)<br>60439 - Roadside-Wallberg (UofT) | 2014 to 2016 |
| 1,3-Butadiene | 60512 - Hamilton Downtown | 2013 to 2017 |
| Formaldehyde | 60211 – Windsor West (College and South St.)<br>60439 - Roadside-Wallberg (UofT) | 2014 to 2016 |
| Carbon Monoxide | 60512 - Hamilton Downtown | 2013 to 2017 |
| Ozone | 63001 – Burlington | 2013 to 2017 |

## 2.3 Dispersion Modelling

The dispersion model used in this study is the US EPA's AERMOD version 19191. This is a widely used dispersion model and is an approved model for regulatory purposes in Ontario. The model predicted how vehicle-related emissions on the QEW and diesel locomotive related emissions from the nearby railway disperse and contribute to air pollutant concentrations at selected impact locations on the proposed development. The dispersion model requires information on vehicle and locomotive emission rates for the air pollutants of interest, the layout of the highway and rail lines, terrain elevation data and hourly meteorological data. In order to estimate vehicle and diesel locomotive emission rates, traffic data were needed. The input data for the dispersion model are discussed in the following sections.

### 2.3.1 Meteorological Data

Meteorological data used in the modelling was obtained from the Regional Meteorological and Terrain Data for Air Dispersion Modelling web site of the MECP. This data set covers the time span from 1996-2000 for suburban areas in Toronto and surrounding regions.

### 2.3.2 Terrain Data and Land Use

Terrain information for the area surrounding the facility were obtained from the Regional Meteorological and Terrain Data for Air Dispersion Modelling web site of the MECP. The terrain data are based on the North American Datum 1983 (NAD83) horizontal reference datum. The surrounding land use was identified as urban and selected as such in the dispersion modelling analysis.

### 2.3.3 Impact Locations (Receptors)

Receptor locations associated with the proposed development are identified in Figure 2 and in Appendix C. On the multi-storey towers, receptors were placed at every floor level.

### 2.3.4 Chemical Transformations

The only chemical reaction among the emitted contaminants of relevance to local air quality impacts is the conversion of nitric oxide (NO) to nitrogen dioxide ($NO_2$). Oxides of nitrogen (NOx) emitted in combustion

exhausts are composed primarily of NO. However, once the exhaust is emitted to the atmosphere and begins to mix with outside air, some of the NO is oxidized in reactions with other contaminants (principally ground-level ozone, $O_3$) to produce $NO_2$.

The Ozone Limiting Method (OLM) was used in the assessment to estimate the maximum short-term $NO_2$ concentrations resulting from emissions of NOx. The OLM assumes that the conversion of NO to $NO_2$ is limited only by the amount of ozone present in the outside air. If the concentration of available $O_3$ (ppb) is less than that of the NO contributed by the modelled roadway emissions, then the portion of NO that is converted to $NO_2$ equals the available $O_3$. On the other hand, if the concentration of available $O_3$ exceeds that of the NO contributed by the modelled roadway, then all the NO is converted to $NO_2$.

To represent background ozone conditions, 90$^{th}$ percentile ozone concentrations by hour of day were derived from measurements recorded by the MECP at the Burlington monitoring station (years 2013-2017).

### 2.3.5 Sources

Sources accounted for in the dispersion modelling conducted for this study include:

• Moving diesel locomotives, throughout the study area; and,

• Vehicles travelling on the QEW Expressway.

The assumed configuration of engines on all diesel trains was a main locomotive engine for motive power, and a generator, known as a Head End Power (HEP) unit, to provide electricity to passenger cars for lighting, heating/cooling, etc.

## 2.4 Emission Estimations

### 2.4.1 Diesel Locomotives Emissions

The U.S. EPA has sets of standards for emissions from various internal combustion sources including locomotives and generators. Railway operations in Canada comply with these standards through the Railway Safety Act. These standards are phased in through a tiered approach, where Tier 0 is the least stringent (highest emissions) and Tier 4 is the most stringent (lowest emissions). GO Transit currently uses a mix of diesel-powered locomotives ranging from Tier 0 to Tier 4. For each tier, the US EPA provides emission limits (g/bhp-hr) for CO, $PM_{10}$, NOX, and hydrocarbons (HC) applicable to locomotive and HEP engines. It was assumed that freight locomotives have the same tier standard mix.

All locomotives were assumed to emit contaminants at rates corresponding to the U.S. EPA emission limits. $PM_{2.5}$ emissions were calculated as a fraction of the $PM_{10}$ emissions. Emissions of acrolein, benzene, formaldehyde, acetaldehyde, and 1,3- butadiene were calculated as fractions of total volatile organic compounds (VOCs), which in turn were calculated as a fraction of the total hydrocarbons (HC). Benzo(a)pyrene emissions were calculated as a fraction of the PM10 emissions. The necessary speciation fractions were obtained from U.S. EPA data on speciation of diesel exhaust emissions. The speciation fractions are shown in Table 3 below.

**Table 3: Speciation Factors for PM2.5, PAHs, VOCs, and Carbonyls**

| Contaminant | Tier 0 | Tier 2 | Tier 3 | Tier 4 |
|---|---|---|---|---|
| VOC [1] | 1.05 x HC | | | |
| $PM_{2.5}$ [1] | 0.97 x $PM_{10}$ | | | |
| Acrolein [2] | 3.0E-02 x VOC | 1.9E-02 x VOC | 1.9E-02 x VOC | 1.0E-02 x VOC |
| Benzene [2] | 2.0E-02 x VOC | 5.4E-02 x VOC | 5.4E-02 x VOC | 5.4E-02 x VOC |
| Benzo(a)pyrene [2] | 2.1E-06 x $PM_{10}$ | 6.7E-06 x $PM_{10}$ | 6.7E-06 x $PM_{10}$ | 6.7E-06 x $PM_{10}$ |
| Formaldehyde [2] | 2.1E-01 x VOC | 2.9E-01 x VOC | 2.9E-01 x VOC | 2.9E-01 x VOC |
| Acetaldehyde [2] | 7.5E-02 x VOC | 1.0E-01 x VOC | 1.0E-01 x VOC | 1.0E-01 x VOC |
| 1,3 Butadiene [2] | 1.9E-03 x VOC | 1.9E-03 x VOC | 1.9E-03 x VOC | 1.9E-03 x VOC |

[1] Emission Factors for Locomotives", U.S. EPA Office of Transportation and Air Quality, EPA-420-F-09-025, April 2009, p.4

[2] Speciation Profiles and Toxic Emission Factors for Non-Road in MOVES2014b, July 2018, p. 16 & p. 18

In order to quantify emissions from the diesel fleet, a weighted average approach was taken where the emission factors associated with specific tiers were weighted based on the number of locomotives from that respective tier within the fleet. The GO transit fleet distribution assumption is based on information available online at https://en.wikipedia.org/wiki/GO_Transit_fleet, and is shown in Tables D1 and D2 in Appendix D. Table 4 shows the weighted emission factors estimated to represent emissions from diesel-powered locomotives and HEP units. The tier-weighted emission factors were also assumed to apply to CN freight trains, as well as CN passenger trains.

**Table 4: Locomotive Tier Weighted Emission Factors**

| Contaminant | Weighted Locomotive Emission Factor (g/bhp-hr) | Weighted HEP Unit Emission Factor (g/bhp-hr) |
|---|---|---|
| CO | 1.5 | 2.4 |
| $PM_{10}$ | 0.15 | 0.13 |
| NOx | 4.7 | 3.9 |
| $PM_{2.5}$ | 0.15 | 0.12 |
| Acrolein | 5.0E-03 | 8.9E-03 |
| Benzene | 1.5E-02 | 2.7E-02 |
| Benzo(a)pyrene | 1.0E-06 | 8.4E-07 |
| Formaldehyde | 8.2E-02 | 1.4E-01 |
| Acetaldehyde | 2.9E-02 | 5.1E-02 |
| 1,3 Butadiene | 5.2E-04 | 9.1E-04 |

In dispersion models, emissions from moving vehicles such as locomotives are represented as if coming from stationary sources distributed along the route of travel. This approach is based on guidance from the US EPA. The route is divided into short segments, referred to as volume sources, and each segment is treated as a

stationary source. The emission from each volume source corresponds to the amount of emissions produced by the vehicles while travelling on that segment of the route.

The emission rate for each volume source was calculated based on the number of trains expected to pass through each hour, the expected speed of these trains, the length of the segment, and the engine load factor (brake horsepower) at that location. These calculations required hour-by-hour information on the number of trains travelling along the corridor. This hourly distribution of trains was determined through train-by-train projections of departure and arrival from publicly available Metrolinx studies (Metrolinx, 2017) and assumptions from information received from CN rail. The hour-by-hour distribution of trains is presented in Appendix A. GO trains were assumed to be comprised of one diesel locomotive and 12 cars. CN freight trains were considered to have 4 locomotives per consist (train) and CN passenger trains were assumed to have 2 diesel locomotives per consist.

The calculations also require the engine brake horsepower (BHP) and train speed to be distributed along the section of rail corridor that was modelled. Table 5 relates the throttle notch settings to brake horsepower for an MP-40 locomotive, which was chosen as representative of the fleet. It was assumed that this relationship applies to all train engines (GO and CN freight and passenger).

**Table 5: Notch Setting and Corresponding Brake Horsepower for an MP40 Locomotive [1]**

| | NOTCH | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | L. Idle | Idle | DB [2] | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| BHP | 9.0 | 27.8 | 46.7 | 231.6 | 448.7 | 982.9 | 1,445 | 1,876 | 2,878 | 3,658 | 4,230 |

[1] Data from an MP40PH-3C EMD 16-710G3C-T2 engine test on 12/11/07

[2] DB = Dynamic Braking

Conservative values of speed and notch settings were assigned to the study area segments. Table 6 shows the mean speeds and notch settings for trains operating within the modelled segments.

**Table 6: Average GO and CN Train Speed and Horsepower Assumptions for Study Segment**

| Study Segment | Direction | Average Speed (km/hr) | Average Notch Setting | BHP |
|---|---|---|---|---|
| GO Lakeshore West Corridor CN Halton / Oakville Subdivision | Eastbound | 80 | 5 | 1876 |
| | Westbound | 80 | 5 | 1876 |

The Head End Power (HEP) unit was modelled as operating at a constant brake horsepower. For the purposes of this modelling scenario, the HEP units were assumed to operate at 50% of total load, or 600 bhp, whenever the trains are in operation. The height of each volume source was set at 9.44 m, which is twice the GO train locomotive height. The release height was taken to be half of the source height, at 4.72 m. The width of the volume sources was selected in order to encompass the width of the rail tracks with trains travelling on the tracks. Where multiple rail lines were included within a volume source, rail traffic from all rail lines included in the emission calculation for emission rates. Figure E1 in Appendix E shows an example of the configuration of volume sources in AERMOD. Further information and sample calculations for emissions from the trains is presented in Appendix D.

### 2.4.2 Highway Traffic Emissions

The QEW falls within the study area. Therefore, emissions from vehicles travelling on the QEW were included in the assessment of air quality impacts.

Exhaust emissions from vehicle traffic were estimated using the U.S. EPA's emission model for on-road vehicles, MOVES2014b (MOVES). Emissions were modelled in MOVES for the year 2025. The QEW posted speed limit of 100 km/h was used as the hourly speed distribution in the MOVES model input. Hourly emission factors were generated for three broad categories of vehicles: cars, buses and single unit trucks, and combination trucks. The distribution of these vehicle types on the QEW was assumed to be 75%, 10%, and 15%, respectively. Weighted emission factors for each contaminant and hour of day are provided in Appendix B.

Emissions from moving vehicles are represented as stationary sources distributed along the route of travel. For the QEW, each stationary segment of the highway was represented as an area source in AERMOD. The emissions from each area source corresponds to the amount of emissions produced by vehicles while travelling on that segment of the route. An hourly distribution profile of vehicles travelling on the QEW was used to calculate the number of vehicles on the highway at a given hour. The emission factors estimated from the MOVES model are in units of g/mile. This emission factor represents the emissions created by each vehicle travelling one mile. The weighted emission factors from MOVES (representing the mix of vehicles on the QEW) were applied to the length of each area source and the hourly traffic rate. These values were then divided by the total area of each respective area source, as AERMOD requires area source emission rates in units of $g/s/m^2$.

### 2.4.3 Traffic Data

Road traffic data for the QEW was obtained from the Ministry of Transportation (Appendix B) and projected to the year 2030 at a conservative growth rate of 2.5% per year. Although these traffic volumes represent conservatively predicted traffic in 2030, the MOVES modelling was projected to the year 2025 to obtain a conservative worst-case emissions scenario. In general, future vehicle emissions are expected to decline due to the advancement of vehicle technology such that any effects of future traffic growth would be offset by the reduction in tailpipe emissions generated.

In absence of any readily available information on hourly distribution on the QEW, data for a nearby section of the QEW was used as a surrogate. The QEW data came from a previous study undertaken by RWDI for proposed improvements to the QEW from Evans Avenue to Cawthra Road (December 2014). Tables B4 and B5 in Appendix B outline these hourly traffic distributions. Table 7 below presents the projected hourly traffic distribution for the QEW.

**Table 7: Hourly Distribution of different vehicle types on QEW**

| Hour of Day | Total Vehicles on Highway | Cars | Buses & Single Unit Trucks | Combination Trucks |
|---|---|---|---|---|
| | | FHWA1-3 | FHWA4-7 | FHWA8-13 |
| 24 | 6372 | 4779 | 637 | 956 |
| 1 | 3118 | 2339 | 312 | 468 |
| 2 | 1762 | 1322 | 176 | 264 |
| 3 | 1220 | 915 | 122 | 183 |
| 4 | 1220 | 915 | 122 | 183 |
| 5 | 1762 | 1322 | 176 | 264 |
| 6 | 5965 | 4474 | 597 | 895 |
| 7 | 13829 | 10371 | 1383 | 2074 |
| 8 | 17354 | 13015 | 1735 | 2603 |

| Hour of Day | Total Vehicles on Highway | Cars | Buses & Single Unit Trucks | Combination Trucks |
|---|---|---|---|---|
| | | FHWA1-3 | FHWA4-7 | FHWA8-13 |
| 9 | 17082 | 12812 | 1708 | 2562 |
| 10 | 15184 | 11388 | 1518 | 2278 |
| 11 | 13964 | 10473 | 1396 | 2095 |
| 12 | 13964 | 10473 | 1396 | 2095 |
| 13 | 14371 | 10778 | 1437 | 2156 |
| 14 | 14371 | 10778 | 1437 | 2156 |
| 15 | 15456 | 11592 | 1546 | 2318 |
| 16 | 17354 | 13015 | 1735 | 2603 |
| 17 | 17625 | 13219 | 1762 | 2644 |
| 18 | 17082 | 12812 | 1708 | 2562 |
| 19 | 16811 | 12608 | 1681 | 2522 |
| 20 | 13964 | 10473 | 1396 | 2095 |
| 21 | 11524 | 8643 | 1152 | 1729 |
| 22 | 10439 | 7829 | 1044 | 1566 |
| 23 | 9355 | 7016 | 935 | 1403 |

Rail traffic data was obtained from both Metrolinx and CN representatives by HGC Engineering and is included in the Noise and Vibration Feasibility Study. The data were projected to the year 2030 at an assumed growth of 2.5% per year, as required by MECP and CN guidelines. The hourly distribution of trains was determined through train-by-train projections of departure and arrival of existing Metrolinx GO transit schedules. Table 8 below shows this hourly distribution.

**Table 8: Hourly Distribution of Diesel Locomotives in the Study segment**

| Hour of Day | Direction | |
|---|---|---|
| | Eastbound | Westbound |
| 0:00 | - | 1 |
| 1:00 | - | - |
| 2:00 | - | - |
| 3:00 | - | - |
| 4:00 | 4 | 4 |
| 5:00 | 5 | 4 |
| 6:00 | 8 | 1 |
| 7:00 | 8 | 3 |
| 8:00 | 10 | 3 |
| 9:00 | 5 | 5 |
| 10:00 | 5 | 5 |
| 11:00 | 5 | 5 |
| 12:00 | 5 | 5 |
| 13:00 | 5 | 5 |
| 14:00 | 5 | 5 |
| 15:00 | 3 | 4 |
| 16:00 | 3 | 6 |

| Hour of Day | Direction | |
|---|---|---|
| | Eastbound | Westbound |
| 17:00 | 3 | 9 |
| 18:00 | 3 | 12 |
| 19:00 | 5 | 6 |
| 20:00 | 5 | 5 |
| 21:00 | 5 | 5 |
| 22:00 | 5 | 5 |
| 23:00 | 5 | 5 |
| **Daily Total** | **102** | **103** |

# 3 RESULTS

## 3.1 Background Air Quality

Tables 9 and 10 present background concentrations for all contaminants and relevant averaging times. The 90th percentile 24-hour concentrations for $NO_2$ and $PM_{2.5}$ were determined using data from the Burlington monitoring station for the years 2013 to 2017.

**Table 9: Summary of Background Concentrations in the Study Area**

| Contaminant | Averaging Time | Background concentrations (µg/m$^3$) |
|---|---|---|
| CO | 1 hour | 289 |
| | 8 hours [2] | 1185 |
| $NO_2$ | Annual | 21 |
| $PM_{2.5}$ | Annual | 8.7 |
| | 24 hours | 17 |
| $PM_{10}$ [1] | 24 hours | 34 |
| Benzene | 24 hours | 1.78 |
| | Annual | 0.88 |
| Benzo(a)pyrene | 24 hours | 9.7E-04 |
| | Annual | 3.2E-04 |
| 1,3-Butadiene | 24 hours | 0.06 |
| | Annual | 0.04 |
| Formaldehyde | 24 hours | 3.5 |
| Acetaldehyde | 24 hours | 1.7 |
| Acrolein | 1 hour [3] | 0.12 |
| | 24 hours | 0.07 |

[1] Ambient Background Level estimated from PM2.5 levels using published emission factors (Lall et al., 2004)
[2] 90th percentile 8-hour ambient CO data was not available; the maximum 8-hour concentration from NAPS Station 60430 –Burlington West and NAPS Station 60440 - Burlington North was used
[3] 1-hr average ambient acrolein data was not available; the maximum 24-hr concentration from NAPS Station 62601- Experimental Farm, Simcoe, ON was used.

**Table 10: 90th Percentile Background NO2 and $O_3$ Concentrations by Hour of Day**

| Hour of Day | $NO_2$ (ppb) | $O_3$ (ppb) |
|---|---|---|
| 1 | 24.4 | 39.2 |
| 2 | 23.9 | 38.4 |
| 3 | 24.5 | 37.9 |
| 4 | 24.0 | 37.0 |
| 5 | 23.6 | 35.8 |
| 6 | 25.2 | 33.6 |
| 7 | 26.8 | 32.6 |
| 8 | 27.7 | 31.7 |
| 9 | 26.9 | 32.8 |
| 10 | 24.1 | 35.2 |
| 11 | 20.4 | 37.6 |
| 12 | 17.4 | 40.6 |
| 13 | 15.0 | 43.2 |
| 14 | 13.4 | 46.5 |
| 15 | 13.0 | 48.6 |
| 16 | 13.0 | 50.2 |
| 17 | 13.4 | 50.9 |
| 18 | 14.3 | 51.2 |
| 19 | 16.5 | 50.7 |
| 20 | 18.7 | 48.2 |
| 21 | 21.3 | 45.9 |
| 22 | 24.3 | 42.5 |
| 23 | 25.4 | 41.2 |
| 24 | 25.2 | 40.3 |

## 3.2 Maximum Cumulative Concentrations

Table 11 shows the highest predicted cumulative concentrations (background plus highway and railway contributions) at the proposed development. The table shows that the air quality objectives are not met for all contaminants, specifically $NO_2$, $PM_{2.5}$, benzene, and benzo(a)pyrene.

Appendix F provides predicted cumulative concentrations for $NO_2$, benzene and benzo(a)pyrene at representative receptors on the proposed development and Appendix C presents 3-dimensional colour plots of the maximum concentrations predicted at each receptor modelled on the proposed development. These plots are presented for the contaminants predicted to exceed their respective air quality objectives: $NO_2$, $PM_{2.5}$, benzene, and benzo(a)pyrene.

In the case of $NO_2$, the locations where the predicted concentrations do not meet the objectives is limited to the lower floors of the proposed multi-storey towers; specifically, at heights below approximately 73m.

In the case of benzene, the predicted annual average concentrations exceed the AAQC at all receptors on the proposed development. However, the current background level of benzene exceeds the AAQC on its own with the modelled concentrations from the railway and QEW predicted at insignificant levels, approximately 10% of background at all receptors. Thus, the predicted benzene concentrations at the proposed development are not significantly different from anywhere else in the urban area.

In the case of benzo(a)pyrene, the modelling appears to overestimate benzo(a)pyrene concentrations significantly. The predicted annual average benzo(a)pyrene concentration contributed by the QEW and railway is about 0.01% of the predicted annual average $PM_{2.5}$ concentration. In reality, it should be closer to the percentage observed in the background monitoring data, i.e., approximately 0.004% of the annual average $PM_{2.5}$ concentration. The following are two possible explanations for the overestimate: (1) available published vehicle emission factors for benzo(a)pyrene and other polycyclic aromatic hydrocarbons (PAH) are based on more limited data and have much higher uncertainty than those for other contaminants; and (2) the model does not account for the fact that benzo(a)pyrene is susceptible to photolysis and other chemical interactions and has a relatively short half-life in air (as little as a few hours). In any case, the model results for benzo(a)pyrene are considered unreliable and the data for benzene and the other pollutants are considered better indicators of potential air quality effects from transportation related air pollutants.

**Table 11: Predicted Maximum Pollutant Concentrations at the Plains Road & Fairview Street Site**

| Pollutant | Averaging Time | Roadway and Rail Lines contribution (µg/m³) | Ambient Background Level (µg/m³) | Cumulative Concentration (µg/m³) | Objective (µg/m³) | Percentage of Criteria, Total Concentration |
|---|---|---|---|---|---|---|
| **AAQC** | | | | | | |
| $NO_2$ | 1-hr | 141 | 31 | 172 | 400 | 43% |
| | 24-hr | 90 | 39 | 130 | 200 | 65% |
| Acrolein | 1-hr | 0.17 | 0.12 | 0.29 | 4.50 | 6% |
| | 24-hr | 0.08 | 0.07 | 0.15 | 0.4 | 37% |
| CO | 1-hr | 647 | 289 | 936 | 36200 | 2.6% |
| | 8-hr | 435 | 1195 | 1630 | 15700 | 10% |
| $PM_{10}$ | 24-hr | 9.6 | 34 | 44 | 50 | 87% |
| Benzene | 24-hr | 0.35 | 1.78 | 2.1 | 2.3 | 93% |
| | Annual | 0.09 | 0.88 | 0.97 | 0.45 | 216% |
| B(a)P | 24-hr | 7.2E-04 | 9.7E-04 | 1.7E-03 | 5.0E-05 | 3373% |
| | Annual | 1.7E-04 | 3.2E-04 | 4.9E-04 | 1.0E-05 | 4851% |
| Formaldehyde | 24-hr | 1.2 | 3.5 | 4.7 | 65 | 7.2% |
| Acetaldehyde | 24-hr | 0.5 | 1.7 | 2.2 | 500 | 0.4% |
| 1,3-Butadiene | 24-hr | 0.03 | 0.06 | 0.09 | 10 | 0.9% |
| | Annual | 0.007 | 0.036 | 0.043 | 2 | 2.2% |
| **CAAQS** | | | | | | |
| $NO_2$ [1] | 1-hr | 135 | 32 | 167 | 83 | 201% |
| $NO_2$ [2] | Annual | 35.7 | 21 | 57 | 24 | 240% |
| $PM_{2.5}$ [3] | 24-hr | 4.2 | 17.1 | 21.3 | 27 | 79% |
| $PM_{2.5}$ | Annual | 1.6 | 8.7 | 10.3 | 8.8 | 117% |

[1] Modelled Project Impact corresponds to the 3-year average of the annual 98th percentile daily maximum 1-hour average.

[2] Modelled Project Impact corresponds the average over a single calendar year of all the 1-hour average concentrations.

[3] Modelled Project Impact corresponds to the 3-year average of the annual 98th percentile of the daily 24-hour average concentrations.

# 4 CONCLUSIONS AND RECOMMENDATIONS

The analysis indicates the air quality at the proposed development site is adversely affected by the proximity to the QEW and CN railway. At heights below approximately 73m above grade, the predicted levels of some of the air contaminants of interest do not meet their air quality objectives. Above 73m, the predicted levels either meet the objectives or, if they do not meet the objectives, it is because the objectives are not met anywhere in the urban area due to the existing background levels in the ambient air.

Based on the above, we would recommend that the following items be taken into consideration at the site plan development and building permit stages:

- Central ventilation be provided to residential units, with the fresh air supply located at no less than 73m above grade;
- Commercial units could have the option of individual ventilation systems with appropriate particle filtering and activated carbon filtering for the environment;
- Consideration should be given to reducing the size or eliminating open balconies on floors below 73m;
- Outdoor amenity spaces, other than those designed only for brief transient use (such as a pedestrian podium) should be placed as far as possible from the highway or located where they are screened from the highway by intervening buildings.
- Warning clauses could be incorporated into condominium sales agreements.
- In addition, due to the high levels of some contaminants, as modelled and in background data, it may be valuable to consider completing an ambient air monitoring program at the subject lands to confirm the current ambient air quality at the site for the contaminants of concern.
- Air quality recommendations should be re-examined at Site Plan Approval, once built forms and construction phasing have been finalized.

# 5 REFERENCES

1. Ministry of Transportation Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Project (October 2019)

2. Go Rail Network Electrification Transit Project Assessment Process, Noise and Vibration Impact Assessment Report (Metrolinx, 2017).

3. Control of Emissions of Air Pollution from Locomotive Engines and Marine Compression-Ignition Engines Less Than 30 Litres per Cylinder 73 Federal Register 126 (30 June 2008)

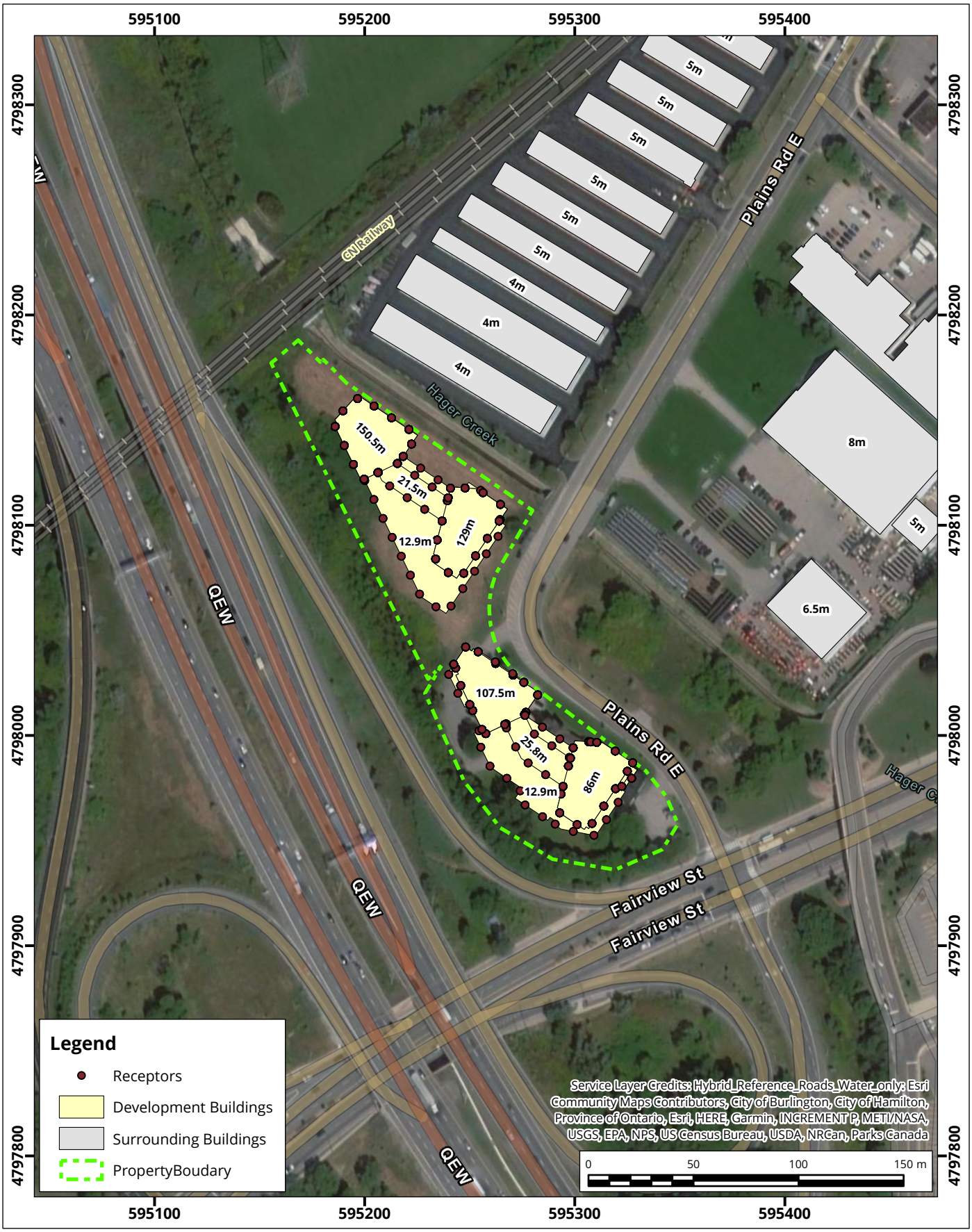
4. Emission Factors for Locomotives, US EPA Office of Transportation and Air Quality (April 2009)

5. Control of Emissions of Air Pollution from Locomotives Engines and Marine Compression-Ignition Engines Less Than 30 Litres per Cylinder", US EPA (30 June 2008)

6. Speciation Profiles and Toxin Emission Factors for Nonroad Engines in MOVES2014b, US EPA (July 2018)

7. Estimation of historical annual PM2.5 exposures for health effects assessment, Lall et al. (14 Jan 2004)

# FIGURES




# Site Plan Showing Receptors, Buildings, and Property Line

True North

Map Projection: NAD 1983 UTM Zone 17N

1134 & 1167 Plains Road East Development - Burlington, Ontario

Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: 1 |
| Approx. Scale: | 1:2,500 |
| Date Revised: | Nov 25, 2020 |

Map Document: C:\GIS Temp - Copy\2004217\Plains_Road_East_1134_and_1167.aprx

# APPENDIX A

**Table A1. Hourly Rail Service Levels (2030) - GO Lakeshore West Corridor / CN Halton /CN Oakville**

| Operator | Locomotives per Consist (Train) | Direction | 0:00 1:00 | 1:00 2:00 | 2:00 3:00 | 3:00 4:00 | 4:00 5:00 | 5:00 6:00 | 6:00 7:00 | 7:00 8:00 | 8:00 9:00 | 9:00 10:00 | 10:00 11:00 | 11:00 12:00 | 12:00 13:00 | 13:00 14:00 | 14:00 15:00 | 15:00 16:00 | 16:00 17:00 | 17:00 18:00 | 18:00 19:00 | 19:00 20:00 | 20:00 21:00 | 21:00 22:00 | 22:00 23:00 | 23:00 0:00 | Daily Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GO Transit | 1 | Eastbound | - | - | - | - | - | 1 | 4 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 26 |
| | | Westbound | 1 | - | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 5 | 4 | 2 | 1 | 1 | 1 | 1 | 29 |
| CN Passenger | 2 | Eastbound | - | - | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | - | - | 8 |
| | | Westbound | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | 1 | 2 | 2 | 2 | - | - | - | - | - | 9 |
| CN Freight | 4 | Eastbound | - | - | - | - | 1 | 1 | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 15 |
| | | Westbound | - | - | - | - | 1 | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 14 |
| **Total Diesel Locomotives** | | **Eastbound** | **-** | **-** | **-** | **-** | **4** | **5** | **8** | **8** | **10** | **5** | **5** | **5** | **5** | **5** | **5** | **3** | **3** | **3** | **3** | **5** | **5** | **5** | **5** | **5** | **102** |
| | | **Westbound** | **1** | **-** | **-** | **-** | **4** | **4** | **1** | **3** | **3** | **5** | **5** | **5** | **5** | **5** | **5** | **4** | **6** | **9** | **12** | **6** | **5** | **5** | **5** | **5** | **103** |

**Notes:** CN Passenger trains distributed throughout peak hours (7:00-9:00 and 15:00-19:00).

CN Freight day time trains distributed evenly throughout non peak hours. If required, additional train added to peak hours (8:00 and/or 18:00). Night time trains added closest to day time hours (4:00-6:00 and 23:00-1:00).

GO Traffic Between Burlington GO Station and Aldershot GO Station

# APPENDIX B

**Table B1. Traffic Hourly Distribution and Speed (2030) - QEW**

| Time - Hour Starting | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Traffic on Gardiner | 6372 | 3118 | 1762 | 1220 | 1220 | 1762 | 5965 | 13829 | 17354 | 17082 | 15184 | 13964 | 13964 | 14371 | 14371 | 15456 | 17354 | 17625 | 17082 | 16811 | 13964 | 11524 | 10439 | 9355 |
| Speed (km/hr) [2] | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

[1] Future traffic volumes were based on 2.5% growth rate forecasted to 2030

**Table B2. Vehicle Distribution on QEW**

| | |
|---|---|
| Fraction of Cars | 75% |
| Fraction of Buses & Single Unit Trucks | 10% |
| Fraction of Combination Trucks | 15% |

[1] Based on vehicle distribution assumption from NAV

**Table B3. Total Vehicle Emission Factors**

| Hour Starting | Total Emission Factor (g/s-mile) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | BUT | ACT | ACR | BEN | CO | FORM | NOx | PM10 | PM25 | Benzo_a_pyrene |
| 1 | 1.53E-04 | 1.98E-03 | 3.33E-04 | 1.58E-03 | 1.58E+00 | 4.62E-03 | 1.12E+00 | 5.11E-02 | 3.45E-02 | 4.15E-06 |
| 2 | 8.66E-05 | 1.12E-03 | 1.88E-04 | 8.94E-04 | 8.95E-01 | 2.61E-03 | 6.35E-01 | 2.89E-02 | 1.95E-02 | 2.36E-06 |
| 3 | 5.99E-05 | 7.75E-04 | 1.30E-04 | 6.19E-04 | 6.20E-01 | 1.81E-03 | 4.39E-01 | 2.00E-02 | 1.35E-02 | 1.64E-06 |
| 4 | 5.99E-05 | 7.75E-04 | 1.30E-04 | 6.19E-04 | 6.20E-01 | 1.81E-03 | 4.39E-01 | 2.00E-02 | 1.35E-02 | 1.64E-06 |
| 5 | 8.66E-05 | 1.12E-03 | 1.88E-04 | 8.94E-04 | 8.95E-01 | 2.61E-03 | 6.35E-01 | 2.89E-02 | 1.96E-02 | 2.38E-06 |
| 6 | 2.93E-04 | 3.79E-03 | 6.36E-04 | 3.03E-03 | 3.03E+00 | 8.83E-03 | 2.15E+00 | 9.80E-02 | 6.62E-02 | 8.07E-06 |
| 7 | 6.79E-04 | 8.78E-03 | 1.47E-03 | 7.01E-03 | 7.02E+00 | 2.05E-02 | 4.98E+00 | 2.27E-01 | 1.54E-01 | 1.87E-05 |
| 8 | 8.52E-04 | 1.10E-02 | 1.85E-03 | 8.80E-03 | 8.81E+00 | 2.57E-02 | 6.25E+00 | 2.85E-01 | 1.93E-01 | 2.35E-05 |
| 9 | 8.39E-04 | 1.08E-02 | 1.82E-03 | 8.66E-03 | 8.68E+00 | 2.53E-02 | 6.15E+00 | 2.80E-01 | 1.89E-01 | 2.29E-05 |
| 10 | 7.46E-04 | 9.64E-03 | 1.62E-03 | 7.70E-03 | 7.71E+00 | 2.25E-02 | 5.47E+00 | 2.48E-01 | 1.68E-01 | 2.00E-05 |
| 11 | 6.86E-04 | 8.87E-03 | 1.49E-03 | 7.08E-03 | 7.09E+00 | 2.07E-02 | 5.03E+00 | 2.28E-01 | 1.54E-01 | 1.81E-05 |
| 12 | 6.86E-04 | 8.87E-03 | 1.49E-03 | 7.08E-03 | 7.09E+00 | 2.07E-02 | 5.03E+00 | 2.27E-01 | 1.53E-01 | 1.79E-05 |
| 13 | 7.06E-04 | 9.13E-03 | 1.53E-03 | 7.29E-03 | 7.30E+00 | 2.13E-02 | 5.18E+00 | 2.33E-01 | 1.57E-01 | 1.82E-05 |
| 14 | 7.06E-04 | 9.13E-03 | 1.53E-03 | 7.29E-03 | 7.30E+00 | 2.13E-02 | 5.18E+00 | 2.33E-01 | 1.57E-01 | 1.81E-05 |
| 15 | 7.59E-04 | 9.82E-03 | 1.65E-03 | 7.84E-03 | 7.85E+00 | 2.29E-02 | 5.57E+00 | 2.51E-01 | 1.69E-01 | 1.94E-05 |
| 16 | 8.52E-04 | 1.10E-02 | 1.85E-03 | 8.80E-03 | 8.81E+00 | 2.57E-02 | 6.25E+00 | 2.82E-01 | 1.89E-01 | 2.18E-05 |
| 17 | 8.66E-04 | 1.12E-02 | 1.88E-03 | 8.94E-03 | 8.95E+00 | 2.61E-02 | 6.35E+00 | 2.86E-01 | 1.92E-01 | 2.22E-05 |
| 18 | 8.39E-04 | 1.08E-02 | 1.82E-03 | 8.66E-03 | 8.68E+00 | 2.53E-02 | 6.15E+00 | 2.77E-01 | 1.87E-01 | 2.15E-05 |
| 19 | 8.26E-04 | 1.07E-02 | 1.79E-03 | 8.53E-03 | 8.54E+00 | 2.49E-02 | 6.05E+00 | 2.73E-01 | 1.84E-01 | 2.13E-05 |
| 20 | 6.86E-04 | 8.87E-03 | 1.49E-03 | 7.08E-03 | 7.09E+00 | 2.07E-02 | 5.03E+00 | 2.27E-01 | 1.53E-01 | 1.79E-05 |
| 21 | 5.66E-04 | 7.32E-03 | 1.23E-03 | 5.85E-03 | 5.85E+00 | 1.71E-02 | 4.15E+00 | 1.88E-01 | 1.27E-01 | 1.49E-05 |
| 22 | 5.13E-04 | 6.63E-03 | 1.11E-03 | 5.30E-03 | 5.30E+00 | 1.55E-02 | 3.76E+00 | 1.70E-01 | 1.15E-01 | 1.36E-05 |
| 23 | 4.59E-04 | 5.94E-03 | 9.98E-04 | 4.75E-03 | 4.75E+00 | 1.39E-02 | 3.37E+00 | 1.53E-01 | 1.03E-01 | 1.23E-05 |
| 24 | 3.13E-04 | 4.05E-03 | 6.79E-04 | 3.23E-03 | 3.24E+00 | 9.44E-03 | 2.29E+00 | 1.04E-01 | 7.04E-02 | 8.42E-06 |

**Table B4. Hourly Traffic distribution from Previous RWDI Study**

| **Hour** | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **% Weekday Traffic** | 2.4% | 1.2% | 0.7% | 0.5% | 0.5% | 0.7% | 2.2% | 5.1% | 6.4% | 6.3% | 5.6% | 5.2% | 5.2% | 5.3% | 5.3% | 5.7% | 6.4% | 6.5% | 6.3% | 6.2% | 5.2% | 4.3% | 3.9% | 3.5% |

* Undertaken by RWDI for proposed improvements to the QEW from Evans Avenue to Cawthra Road (December 2014)

**Table B5. Estimated 2016 QEW Hourly Traffic Distribution**

| Time - Hour Starting | 24 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Eastbound and Westbound | 4510 | 2207 | 1247 | 864 | 864 | 1247 | 4222 | 9787 | 12282 | 12090 | 10746 | 9883 | 9883 | 10171 | 10171 | 10938 | 12282 | 12474 | 12090 | 11898 | 9883 | 8156 | 7388 | 6621 |

* Data From MTO (2016 SADT) **191,900** Total Vehicles

Ontario

Ministry of Transportation | Highway Standards Branch | Traffic Office

# Provincial Highways

# Traffic Volumes 1988-2016

King's Highways / Secondary Highways / Tertiary Roads

**Ministry Contact:**
Traffic Office (905)-704-2960

**Abstract:**
This annual publication contains averaged traffic volume information and accident rate information for each of the sections of highway under MTO jurisdiction.

**Key Words:**
Annual Average Daily Traffic volume (AADT), Summer Average Daily Traffic volume (SADT), Summer Average Weekday Traffic volume (SAWDT), Winter Average Daily Traffic volume (WADT), Accident Rate (AR)

| Highway | Location Description | Dist. (KM) | Year | Pattern Type | AADT | SADT | SAWDT | WADT | AR |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2014 | CR | 155,300 | 183,200 | 181,700 | 132,000 | N/A |
| | | | 2015 | CR | 158,300 | 186,800 | 185,200 | 134,600 | N/A |
| | | | 2016 | CR | 161,300 | 190,300 | 188,700 | 137,100 | N/A |
| QEW | FAIRVIEW ST IC-99 | 1.0 | 1988 | IC | 68,000 | 78,800 | 76,800 | 59,800 | 0.7 |
| | | | 1989 | IC | 76,600 | 88,000 | 86,500 | 68,100 | 0.8 |
| | | | 1990 | IC | 80,500 | 91,700 | 90,100 | 71,600 | 0.8 |
| | | | 1991 | IC | 82,900 | 93,600 | 91,900 | 73,700 | 1.1 |
| | | | 1992 | IC | 83,500 | 94,300 | 93,500 | 74,300 | 0.8 |
| | | | 1993 | IC | 84,100 | 93,300 | 92,500 | 76,500 | 0.6 |
| | | | 1994 | IC | 92,100 | 102,700 | 103,500 | 81,600 | 0.8 |
| | | | 1995 | IC | 95,900 | 106,900 | 108,400 | 85,000 | 0.3 |
| | | | 1996 | IC | 99,700 | 111,200 | 112,700 | 88,300 | 0.4 |
| | | | 1997 | IC | 103,600 | 115,500 | 117,100 | 91,200 | 0.4 |
| | | | 1998 | IC | 107,400 | 119,800 | 120,700 | 95,200 | 0.3 |
| | | | 1999 | IC | 111,300 | 124,100 | 125,100 | 98,600 | 0.6 |
| | | | 2000 | IC | 115,100 | 128,300 | 129,400 | 102,000 | 0.4 |
| | | | 2001 | IC | 118,900 | 133,200 | 133,200 | 104,600 | 0.3 |
| | | | 2002 | IC | 122,800 | 136,900 | 138,000 | 108,200 | 0.4 |
| | | | 2003 | IC | 126,600 | 140,500 | 141,800 | 111,400 | 0.3 |
| | | | 2004 | IC | 130,400 | 145,300 | 146,700 | 115,500 | 0.4 |
| | | | 2005 | IC | 134,300 | 149,300 | 150,800 | 118,400 | 0.5 |
| | | | 2006 | IC | 138,100 | 153,400 | 154,900 | 122,300 | 0.5 |
| | | | 2007 | IC | 141,900 | 157,600 | 162,500 | 125,400 | 0.4 |
| | | | 2008 | IC | 145,800 | 161,500 | 156,300 | 128,600 | 0.4 |
| | | | 2009 | IC | 149,600 | 165,800 | 167,300 | 132,600 | 0.4 |
| | | | 2010 | IC | 153,400 | 169,800 | 171,200 | 136,000 | 0.3 |
| | | | 2011 | IC | 157,300 | 173,000 | 179,300 | 141,500 | N/A |
| | | | 2012 | IC | 157,200 | 174,500 | 168,200 | 139,900 | N/A |
| | | | 2013 | IC | 153,000 | 169,800 | 168,300 | 136,200 | N/A |
| | | | 2014 | IC | 165,700 | 183,900 | 182,200 | 147,400 | N/A |
| | | | 2015 | IC | 169,300 | 187,900 | 186,200 | 150,700 | N/A |
| | | | 2016 | IC | 172,900 | 191,900 | 190,200 | 153,900 | N/A |
| QEW | HWY 403/407 IC-100 | 0.8 | 1988 | C | 90,800 | 100,800 | 100,800 | 81,700 | 1.1 |

# APPENDIX C

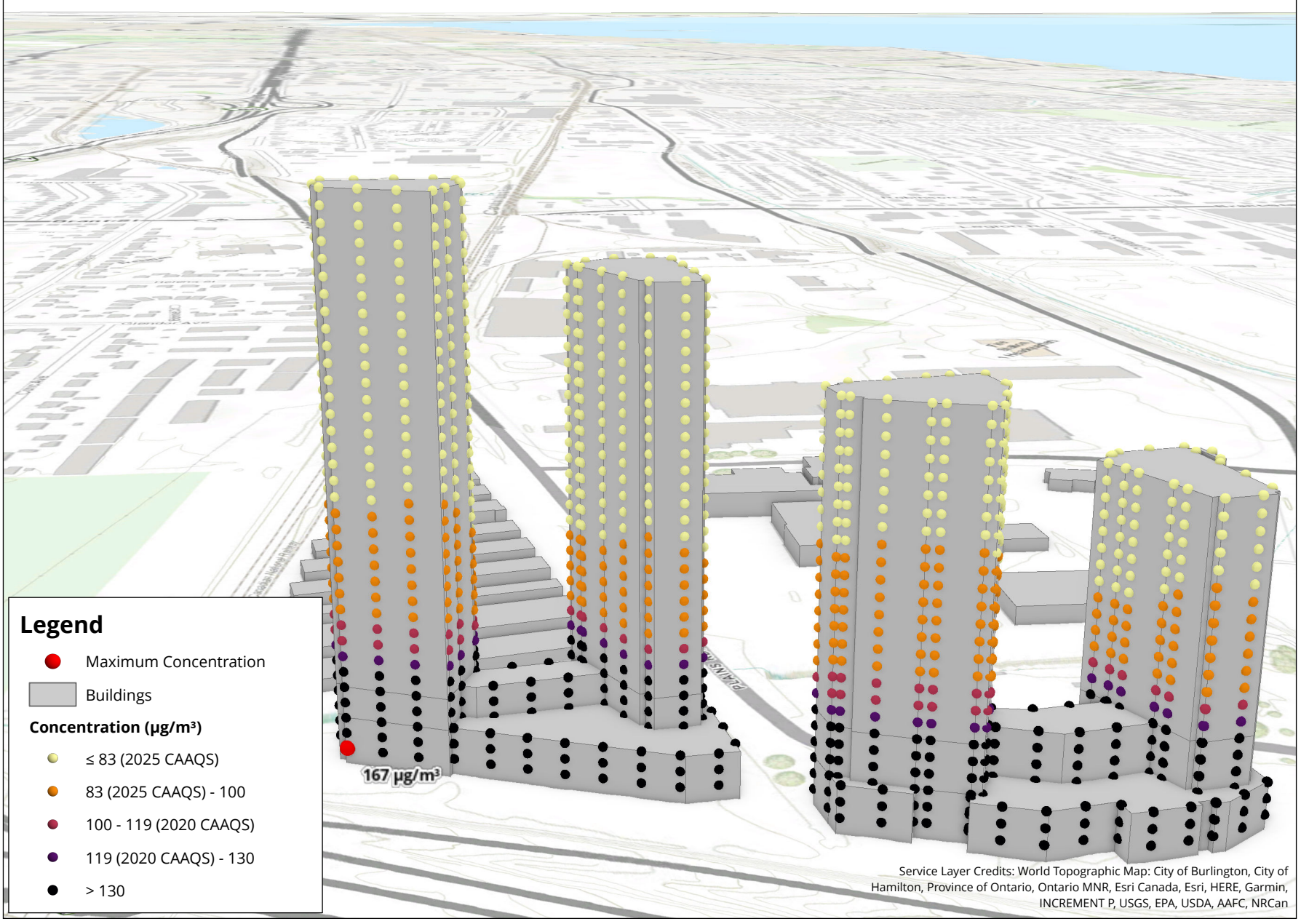
**Looking from Fairview Street**

True North




**Looking from Queen Elizabeth Way**

True North




## Predicted 98th Percentile of 1-hour $NO_2$ Daily Maximum Concentrations
### Combined Impact of Roadways and Background

Map Projection: NAD 1983 UTM Zone 17N

1134 & 1167 Plains Road East Development - Burlington, Ontario

Background Concentration = 32 µg/m³

1-Hour $NO_2$ 2020 CAAQS = 119 µg/m³; 2025 CAAQS = 83 µg/m³

Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C1 |
| Approx. Scale: | NA |
| Date Revised: Nov 25, 2020 | |

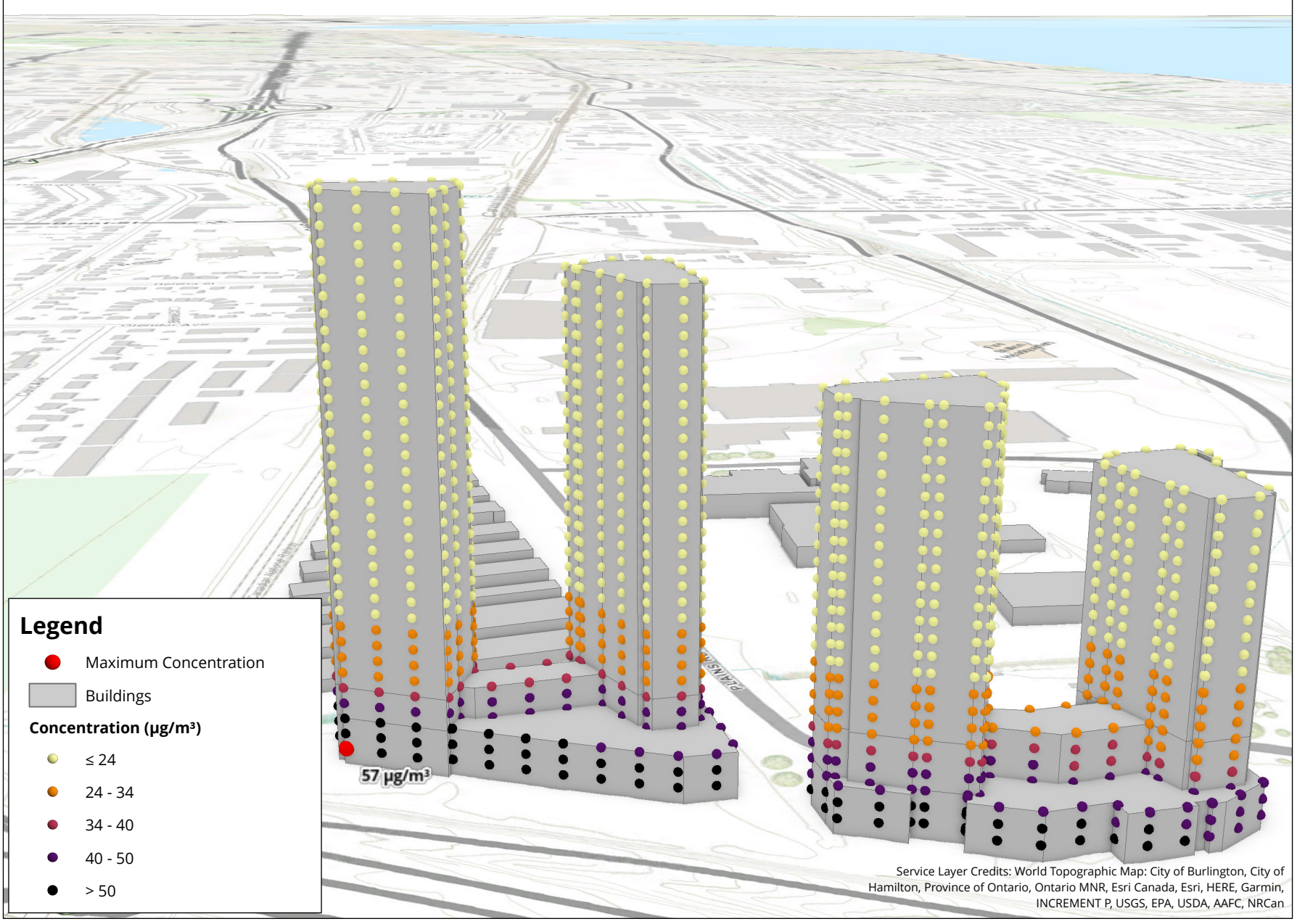
**Looking from Fairview Street**

True North




**Looking from Queen Elizabeth Way**

True North




# Predicted Annual $NO_2$ Concentrations

## Combined Impact of Roadways and Background

Map Projection: NAD 1983 UTM Zone 17N

1134 & 1167 Plains Road East Development - Burlington, Ontario

Background Concentration = 21 µg/m³

Annual $NO_2$ 2020 CAAQS = 34 µg/m³; 2025 CAAQS = 24 µg/m³

Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C2 |
| Approx. Scale: | NA |
| Date Revised: Nov 25, 2020 | |

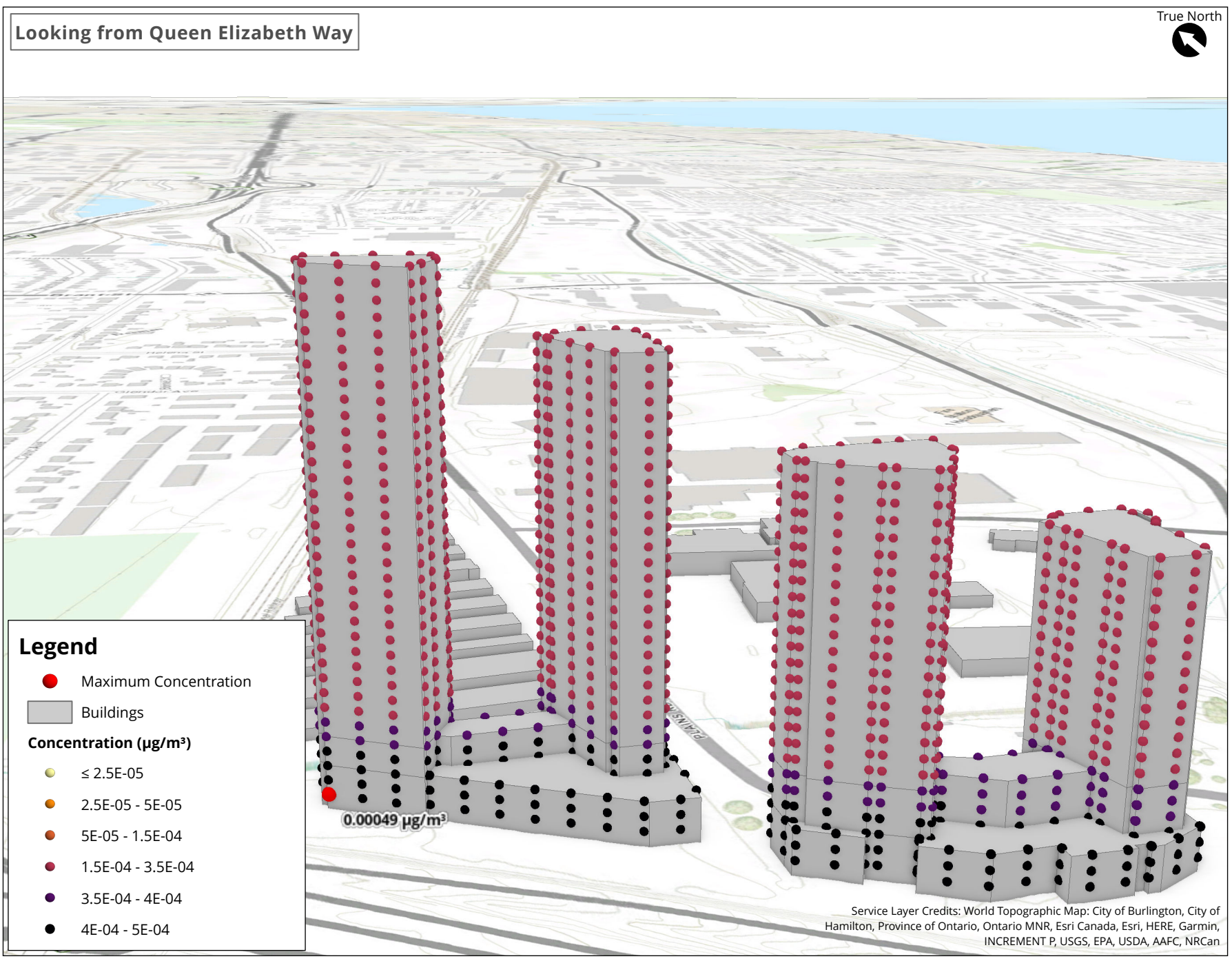
Looking from Fairview Street

True North




Looking from Queen Elizabeth Way

True North




**Predicted Annual Benzo(a)pyrene Concentrations**
**Combined Impact of Roadways and Background**

Map Projection: NAD 1983 UTM Zone 17N
1134 & 1167 Plains Road East Development - Burlington, Ontario

Background Concentration = 3.2E-04 µg/m³
Annual Benzo(a)pyrene AAQC = 1E-05 µg/m³
Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C3 |
| Approx. Scale: | NA |
| Date Revised: | Nov 25, 2020 |

**Looking from Fairview Street**

True North




**Looking from Queen Elizabeth Way**

True North




# Predicted Annual Benzo(a)pyrene Concentrations
## Impact of Roadways

Map Projection: NAD 1983 UTM Zone 17N
1134 & 1167 Plains Road East Development - Burlington, Ontario

Annual Benzo(a)pyrene AAQC = 1E-05 µg/m³
Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C4 |
| Approx. Scale: | NA |
| Date Revised: Nov 25, 2020 | |

**Looking from Fairview Street**

True North




**Looking from Queen Elizabeth Way**

True North




Service Layer Credits: World Topographic Map: City of Burlington, City of Hamilton, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, AAFC, NRCan

# Predicted Annual Benzene Concentrations
## Combined Impact of Roadways and Background

Map Projection: NAD 1983 UTM Zone 17N

1134 & 1167 Plains Road East Development - Burlington, Ontario

Background Concentration = 0.88 µg/m³
Annual Benzene AAQC = 0.45 µg/m³
Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C5 |
| Approx. Scale: | NA |
| Date Revised: Nov 25, 2020 | |

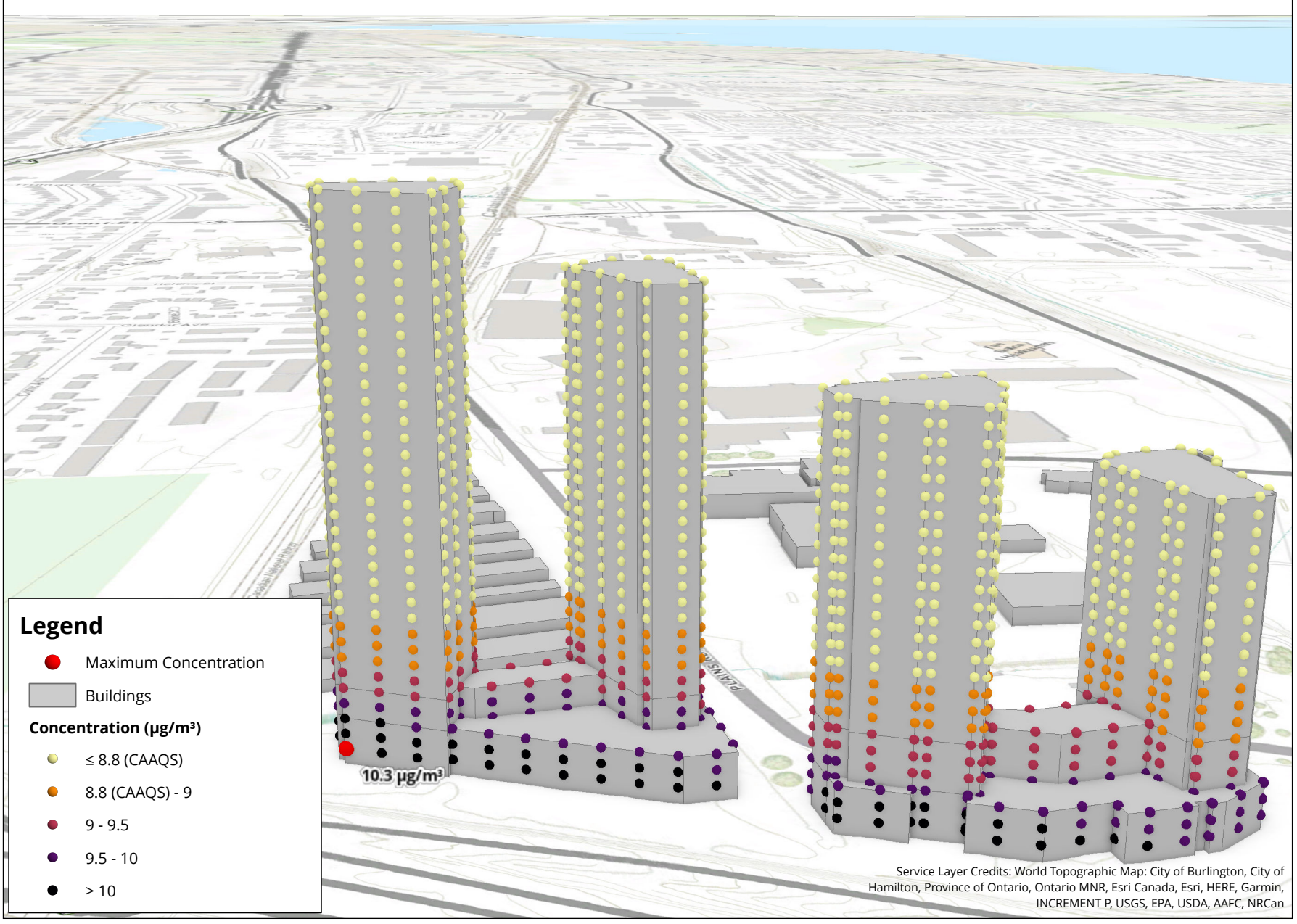
**Looking from Fairview Street**

True North




**Looking from Queen Elizabeth Way**

True North




Service Layer Credits: World Topographic Map: City of Burlington, City of Hamilton, Province of Ontario, Ontario MNR, Esri Canada, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, AAFC, NRCan

# Predicted Annual $PM_{2.5}$ Concentrations
## Combined Impact of Roadways and Background

Map Projection: NAD 1983 UTM Zone 17N
1134 & 1167 Plains Road East Development - Burlington, Ontario

Background Concentration = 8.7 µg/m³
Annual $PM_{2.6}$ 2020 CAAQS = 8.8 µg/m³
Project #: 2004217

| | |
|---|---|
| Drawn by: DJH | Figure: C6 |
| Approx. Scale: | NA |
| Date Revised: Nov 25, 2020 | |

# APPENDIX D

**Table D1. Locomotive Emission Factors (references for each pollutant provided in the notes)**

| Locomotive Distribution[6] | Emissions Tier | Emission Factors (g/bhp-hr) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO [1] | $PM_{10}$ [1] [5] | NOx [1] | HC [1] | VOC [2] | $PM_{2.5}$ [3] | Acrolein [4] | Benzene [4] | B[a]p [4] | Formaldehyde [4] | Acetaldehyde [4] | 1,3 Butadiene [4] |
| 0 | Tier 0 | 5.0 | 0.22 | 8.0 | 1.0 | 1.05 | 0.21 | 3.18E-02 | 2.06E-02 | 4.71E-07 | 2.18E-01 | 7.86E-02 | 1.96E-03 |
| 57 | Tier 2 | 1.5 | 0.20 | 5.5 | 0.3 | 0.32 | 0.19 | 5.91E-03 | 1.71E-02 | 1.33E-06 | 9.22E-02 | 3.29E-02 | 5.88E-04 |
| 10 | Tier 3 | 1.5 | 0.10 | 5.5 | 0.3 | 0.32 | 0.10 | 5.91E-03 | 1.71E-02 | 6.67E-07 | 9.22E-02 | 3.29E-02 | 5.88E-04 |
| 17 | Tier 4 | 1.5 | 0.03 | 1.3 | 0.14 | 0.15 | 0.03 | 1.47E-03 | 7.98E-03 | 2.00E-07 | 4.30E-02 | 1.53E-02 | 2.74E-04 |
| **Weighted Emission Factor** | | **1.50** | **0.15** | **4.65** | **0.27** | **0.28** | **0.15** | **5.01E-03** | **1.52E-02** | **1.03E-06** | **8.23E-02** | **2.93E-02** | **5.24E-04** |

Notes:

[1] "Control of Emissions of Air Pollution From Locomotive Engines and Marine Compression-Ignition Engines Less Than 30 Litres per Cylinder" 73 Federal Register 126 (30 June 2008), pp. 37199

[2] 1.053 x HC [p.4 of "Emission Factors for Locomotives", U.S. EPA Office of Transportation and Air Quality, EPA-420-F-09-025, April 2009]

[3] 0.97 x PM [p.4 of "Emission Factors for Locomotives", U.S. EPA Office of Transportation and Air Quality, EPA-420-F-09-025, April 2009]

[4] Speciation Profiles and Toxic Emission Factors for Non-Road in MOVES2014b, pp. 16

[5] 100% of PM assumed to be PM10

[6] As per information available online, https://en.wikipedia.org/wiki/GO_Transit_fleet

**Table D2. Head End Power (HEP) Unit Emission Factors**

| Locomotive Distribution[1] | Emissions Tier | Emission Factors (g/bhp-hr) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CO | $PM_{10}$ | NOx | HC [8] | VOC | $PM_{2.5}$ | Acrolein | Benzene | B[a]p | Formaldehyde | Acetaldehyde | 1,3 Butadiene |
| 0 | Tier 0 [2] | 5 | 0.22 | 8.0 | 1.0 | 1.05 | 0.213 | 3.18E-02 | 2.06E-02 | 4.71E-07 | 2.18E-01 | 7.86E-02 | 1.96E-03 |
| 57 | Tier 2 [3] | 2.6 | 0.15 | 4.8 | 0.55 | 0.58 | 0.146 | 1.08E-02 | 3.13E-02 | 1.00E-06 | 1.69E-01 | 6.02E-02 | 1.08E-03 |
| 10 | Tier 3 [3] | 2.6 | 0.15 | 3 | 0.55 | 0.58 | 0.146 | 1.08E-02 | 3.13E-02 | 1.00E-06 | 1.69E-01 | 6.02E-02 | 1.08E-03 |
| 17 | Tier 4 [4] | 1.5 | 0.03 | 1.3 | 0.14 | 0.15 | 0.029 | 1.47E-03 | 7.98E-03 | 2.00E-07 | 4.30E-02 | 1.53E-02 | 2.74E-04 |
| **Weighted Emission Factor** | | **2.38** | **0.13** | **3.9** | **0.5** | **0.49** | **0.122** | **8.94E-03** | **2.66E-02** | **8.39E-07** | **1.44E-01** | **5.11E-02** | **9.15E-04** |

Notes:

[1] As per information available online, https://en.wikipedia.org/wiki/GO_Transit_fleet

[2] Tier 0 trains do not have a separate HEP Unit; emission factors are assumed to be the same as that of the locomotive

[3] Tier 2 & Tier 3: "Control of Emissions of Air Pollution From Nonroad Diesel Engines" 63 Federal Register 205 (23 October 1998), p. 56970

[4] Tier 4 trains do not have separate HEP units; emission factors are assumed to be the same as that of the locomotive

[5] Tier 4 CO Emission Factor is based on previously applied Tier 2 standard; "Control of Emissions of Air Pollution From Nonroad Diesel Engines and Fuel" 69 Federal Register 124 (29 June 2004), p. 38971

[6] Tier 2 and 3 non-road HC emission factors correspond to the Tier 1 locomotive HC emission factor. Reference document : "Control of Emissions of Air Pollution From Locomotive Engines and Marine Compression-Ignition Engines Less Than 30 Litres per Cylinder" 73 Federal Register 126 (30 June 2008), pp. 37199

**Table D3. Speciation factors from MOVES2014b**

| | Toxics Factor - Nonroad Diesel | | | | | |
|---|---|---|---|---|---|---|
| Tier | Acrolein | Benzene | B[a]p | Formaldehyde | Acetaldehyde | 1,3 Butadiene |
| Tier 0 | 3.02E-02 | 1.96E-02 | 2.14E-06 | 2.07E-01 | 7.46E-02 | 0.00186 |
| Tier 2 | 1.87E-02 | 5.41E-02 | 6.67E-06 | 2.92E-01 | 1.04E-01 | 0.00186 |
| Tier 3 | 1.87E-02 | 5.41E-02 | 6.67E-06 | 2.92E-01 | 1.04E-01 | 0.00186 |
| Tier 4 | 9.99E-03 | 5.41E-02 | 6.67E-06 | 2.92E-01 | 1.04E-01 | 0.00186 |

Source: Speciation Profiles and Toxic Emission Factors for Non-Road in MOVES2014b, pp. 16

B[a]p based on particle emission factor on Table 3-5. PAH Emission Factors for Nonroad Diesel Engines of the above document

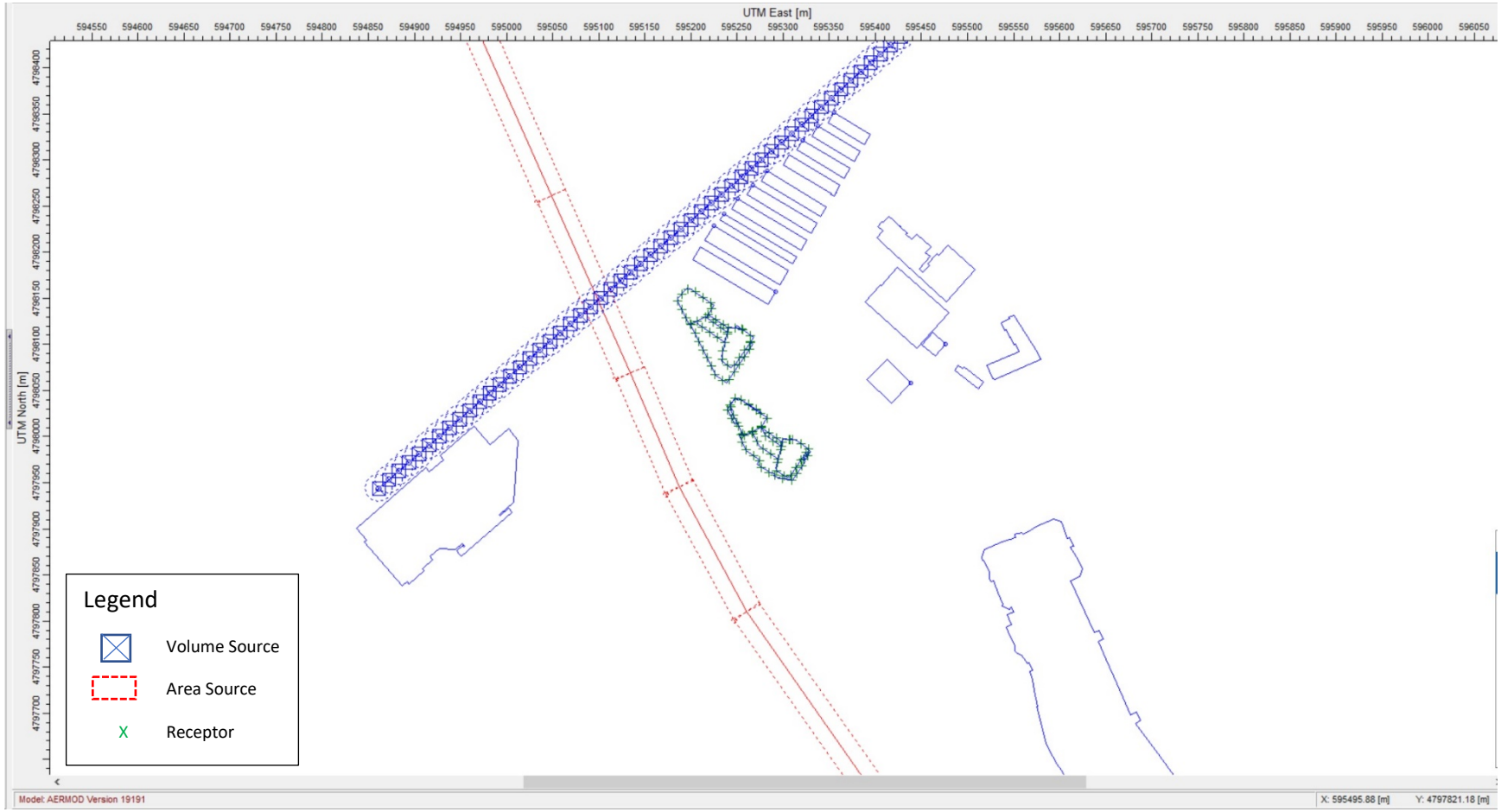
**Emission Rate Sample calculation for a 14.4 meter x 14.4 meter volume source representing a mobile Locomotive unit on a GO train (NOx):**

ER = EF x L / S x BHP x N / 3600

| Parameter | Value | Units | Notes |
|---|---|---|---|
| EF= | 4.65 | g/bhp-hr | NOx Weighted emission factor per locomotive |
| L= | 0.0144 | km | length of source |
| S= | 80 | km/hr | train travel speed |
| BHP= | 1876 | bhp | brake horsepower |
| N= | 1 | veh/hr | # trains per hour |
| 3600= | 3600 | s/hr | conversion from hr to sec |
| **ER=** | **4.36E-04** | **g/s** | **pollutant emission rate** |

$$\text{Emission Rate} = \frac{4.65\ \text{g}}{\text{bhp-hour}} \times \frac{0.0144\ \text{km}}{} \times \frac{\text{hour}}{80\ \text{km}} \times \frac{1876\ \text{bhp}}{} \times \frac{1\ \text{train}}{\text{hour}} \times \frac{1\ \text{hour}}{3600\ \text{seconds}} = 4.36\text{E-}04\ \text{g/s}$$

# APPENDIX E




Map Projection: NAD 1983 UTM Zone 17N

**Figure E1: Orientation of Line Volume Sources and Area Sources in AERMOD**

# APPENDIX F

**Table F1 - 2030 Combined Roadway, Railway and Background Concentrations at Plains Road Development (Selected Receptors)**

| Receptor ID | UTM Coordinates | | Height Above Ground (m) | $NO_2$ 1-hr | | $NO_2$ Annual | | Benzene Annual | | B[a]P Annual | | B[a]P 24-hr | | PM2.5 Annual | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | X | Y | | Combined Impact (µg/m³) | Percentage of CAAQS (%) | Combined Impact (µg/m³) | Percentage of CAAQS (%) | Combined Impact (µg/m³) | Percentage of AAQC (%) | Combined Impact (µg/m³) | Percentage of AAQC (%) | Combined Impact (µg/m³) | Percentage of AAQC (%) | Combined Impact (µg/m³) | Percentage of AAQC (%) |
| 1 | 595276.09 | 4798010.05 | 4.3 | 157 | 189% | 48 | 199% | 0.94 | 208% | 4.5E-04 | 4459% | 1.5E-03 | 3057% | 9.81 | 112% |
| 7 | 595276.34 | 4798009.55 | 4.3 | 157 | 189% | 48 | 199% | 0.94 | 208% | 4.5E-04 | 4458% | 1.5E-03 | 3057% | 9.81 | 112% |
| 19 | 595307.58 | 4797996.90 | 38.7 | 91 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2025% | 8.81 | 100% |
| 21 | 595307.58 | 4797996.90 | 47.3 | 85 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2005% | 8.77 | 100% |
| 23 | 595307.58 | 4797996.90 | 55.9 | 81 | 98% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1997% | 8.75 | 99% |
| 26 | 595307.58 | 4797996.90 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 27 | 595307.58 | 4797996.90 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1984% | 8.73 | 99% |
| 28 | 595307.58 | 4797996.90 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1982% | 8.73 | 99% |
| 30 | 595307.58 | 4797996.90 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 37 | 595310.50 | 4797996.70 | 38.7 | 90 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2024% | 8.81 | 100% |
| 39 | 595310.50 | 4797996.70 | 47.3 | 85 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2004% | 8.77 | 100% |
| 41 | 595310.50 | 4797996.70 | 55.9 | 81 | 97% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 44 | 595310.50 | 4797996.70 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 45 | 595310.50 | 4797996.70 | 73.1 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1983% | 8.73 | 99% |
| 46 | 595310.50 | 4797996.70 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1981% | 8.73 | 99% |
| 48 | 595310.50 | 4797996.70 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1978% | 8.72 | 99% |
| 49 | 595307.58 | 4797996.90 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 206% | 4.2E-04 | 4235% | 1.4E-03 | 2894% | 9.62 | 109% |
| 52 | 595310.50 | 4797996.70 | 4.3 | 152 | 183% | 44 | 181% | 0.93 | 206% | 4.2E-04 | 4215% | 1.4E-03 | 2879% | 9.60 | 109% |
| 61 | 595218.35 | 4798132.75 | 38.7 | 99 | 119% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2036% | 8.81 | 100% |
| 63 | 595218.35 | 4798132.75 | 47.3 | 92 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2014% | 8.77 | 100% |
| 65 | 595218.35 | 4798132.75 | 55.9 | 86 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 68 | 595218.35 | 4798132.75 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1990% | 8.74 | 99% |
| 69 | 595218.35 | 4798132.75 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1988% | 8.73 | 99% |
| 70 | 595218.35 | 4798132.75 | 77.4 | 78 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 72 | 595218.35 | 4798132.75 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1980% | 8.72 | 99% |
| 77 | 595218.35 | 4798132.75 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 82 | 595218.35 | 4798132.75 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 87 | 595218.35 | 4798132.75 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 94 | 595215.57 | 4798129.37 | 38.7 | 100 | 120% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2037% | 8.81 | 100% |
| 96 | 595215.57 | 4798129.37 | 47.3 | 92 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2015% | 8.77 | 100% |
| 98 | 595215.57 | 4798129.37 | 55.9 | 87 | 104% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 101 | 595215.57 | 4798129.37 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1991% | 8.74 | 99% |
| 102 | 595215.57 | 4798129.37 | 73.1 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 103 | 595215.57 | 4798129.37 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 105 | 595215.57 | 4798129.37 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 110 | 595215.57 | 4798129.37 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 115 | 595215.57 | 4798129.37 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 120 | 595215.57 | 4798129.37 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 127 | 595239.75 | 4798113.05 | 38.7 | 94 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2031% | 8.81 | 100% |
| 129 | 595239.75 | 4798113.05 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2011% | 8.77 | 100% |
| 131 | 595239.75 | 4798113.05 | 55.9 | 84 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 134 | 595239.75 | 4798113.05 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1987% | 8.74 | 99% |
| 135 | 595239.75 | 4798113.05 | 73.1 | 78 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1985% | 8.73 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 136 | 595239.75 | 4798113.05 | 77.4 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1983% | 8.73 | 99% |
| 138 | 595239.75 | 4798113.05 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 143 | 595239.75 | 4798113.05 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 148 | 595239.75 | 4798113.05 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 155 | 595240.85 | 4798117.64 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2030% | 8.81 | 100% |
| 157 | 595240.85 | 4798117.64 | 47.3 | 88 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2011% | 8.77 | 100% |
| 159 | 595240.85 | 4798117.64 | 55.9 | 84 | 101% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1998% | 8.75 | 99% |
| 162 | 595240.85 | 4798117.64 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1986% | 8.73 | 99% |
| 163 | 595240.85 | 4798117.64 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1984% | 8.73 | 99% |
| 164 | 595240.85 | 4798117.64 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1982% | 8.73 | 99% |
| 166 | 595240.85 | 4798117.64 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 171 | 595240.85 | 4798117.64 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1970% | 8.71 | 99% |
| 176 | 595240.85 | 4798117.64 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 183 | 595297.98 | 4797989.17 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2029% | 8.81 | 100% |
| 185 | 595297.98 | 4797989.17 | 47.3 | 87 | 104% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2010% | 8.77 | 100% |
| 187 | 595297.98 | 4797989.17 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2000% | 8.75 | 99% |
| 190 | 595297.98 | 4797989.17 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1989% | 8.73 | 99% |
| 191 | 595297.98 | 4797989.17 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1987% | 8.73 | 99% |
| 192 | 595297.98 | 4797989.17 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1985% | 8.73 | 99% |
| 194 | 595297.98 | 4797989.17 | 86 | 75 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 201 | 595299.24 | 4797994.12 | 38.7 | 93 | 112% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2028% | 8.81 | 100% |
| 203 | 595299.24 | 4797994.12 | 47.3 | 86 | 104% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2009% | 8.77 | 100% |
| 205 | 595299.24 | 4797994.12 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 208 | 595299.24 | 4797994.12 | 68.8 | 79 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1988% | 8.73 | 99% |
| 209 | 595299.24 | 4797994.12 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1986% | 8.73 | 99% |
| 210 | 595299.24 | 4797994.12 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1984% | 8.73 | 99% |
| 212 | 595299.24 | 4797994.12 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 219 | 595206.31 | 4798125.03 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2040% | 8.82 | 100% |
| 221 | 595206.31 | 4798125.03 | 47.3 | 94 | 113% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2019% | 8.77 | 100% |
| 223 | 595206.31 | 4798125.03 | 55.9 | 89 | 107% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2006% | 8.75 | 99% |
| 226 | 595206.31 | 4798125.03 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1994% | 8.74 | 99% |
| 227 | 595206.31 | 4798125.03 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1991% | 8.73 | 99% |
| 228 | 595206.31 | 4798125.03 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 230 | 595206.31 | 4798125.03 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 235 | 595206.31 | 4798125.03 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 240 | 595206.31 | 4798125.03 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 245 | 595206.31 | 4798125.03 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 252 | 595199.74 | 4798121.91 | 38.7 | 105 | 127% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2044% | 8.81 | 100% |
| 254 | 595199.74 | 4798121.91 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2021% | 8.77 | 100% |
| 256 | 595199.74 | 4798121.91 | 55.9 | 91 | 109% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2009% | 8.75 | 99% |
| 259 | 595199.74 | 4798121.91 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1998% | 8.73 | 99% |
| 260 | 595199.74 | 4798121.91 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1995% | 8.73 | 99% |
| 261 | 595199.74 | 4798121.91 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 1.0E-03 | 1991% | 8.73 | 99% |
| 263 | 595199.74 | 4798121.91 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1985% | 8.72 | 99% |
| 268 | 595199.74 | 4798121.91 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 273 | 595199.74 | 4798121.91 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 278 | 595199.74 | 4798121.91 | 150.5 | 63 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1959% | 8.71 | 99% |
| 279 | 595240.85 | 4798117.64 | 4.3 | 156 | 188% | 47 | 194% | 0.94 | 208% | 4.3E-04 | 4318% | 1.5E-03 | 2972% | 9.75 | 111% |
| 287 | 595240.85 | 4798117.64 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2030% | 8.81 | 100% |
| 289 | 595240.85 | 4798117.64 | 47.3 | 88 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2011% | 8.77 | 100% |
| 291 | 595240.85 | 4798117.64 | 55.9 | 84 | 101% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1998% | 8.75 | 99% |
| 294 | 595240.85 | 4798117.64 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1986% | 8.73 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 295 | 595240.85 | 4798117.64 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1984% | 8.73 | 99% |
| 296 | 595240.85 | 4798117.64 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1982% | 8.73 | 99% |
| 298 | 595240.85 | 4798117.64 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 303 | 595240.85 | 4798117.64 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1970% | 8.71 | 99% |
| 308 | 595240.85 | 4798117.64 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 309 | 595247.79 | 4798117.73 | 4.3 | 155 | 186% | 45 | 189% | 0.93 | 208% | 4.3E-04 | 4260% | 1.5E-03 | 2927% | 9.70 | 110% |
| 317 | 595247.79 | 4798117.73 | 38.7 | 92 | 111% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2028% | 8.81 | 100% |
| 319 | 595247.79 | 4798117.73 | 47.3 | 88 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2010% | 8.77 | 100% |
| 321 | 595247.79 | 4798117.73 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1998% | 8.75 | 99% |
| 324 | 595247.79 | 4798117.73 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1985% | 8.73 | 99% |
| 325 | 595247.79 | 4798117.73 | 73.1 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1982% | 8.73 | 99% |
| 326 | 595247.79 | 4798117.73 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1981% | 8.73 | 99% |
| 328 | 595247.79 | 4798117.73 | 86 | 73 | 88% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1977% | 8.72 | 99% |
| 333 | 595247.79 | 4798117.73 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1970% | 8.71 | 99% |
| 338 | 595247.79 | 4798117.73 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 345 | 595247.79 | 4798117.73 | 38.7 | 92 | 111% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2028% | 8.81 | 100% |
| 347 | 595247.79 | 4798117.73 | 47.3 | 88 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2010% | 8.77 | 100% |
| 349 | 595247.79 | 4798117.73 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1998% | 8.75 | 99% |
| 352 | 595247.79 | 4798117.73 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1985% | 8.73 | 99% |
| 353 | 595247.79 | 4798117.73 | 73.1 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1982% | 8.73 | 99% |
| 354 | 595247.79 | 4798117.73 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1981% | 8.73 | 99% |
| 356 | 595247.79 | 4798117.73 | 86 | 73 | 88% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1977% | 8.72 | 99% |
| 361 | 595247.79 | 4798117.73 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1970% | 8.71 | 99% |
| 366 | 595247.79 | 4798117.73 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 373 | 595256.36 | 4798115.48 | 38.7 | 90 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2025% | 8.81 | 100% |
| 375 | 595256.36 | 4798115.48 | 47.3 | 86 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2008% | 8.77 | 100% |
| 377 | 595256.36 | 4798115.48 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1997% | 8.75 | 99% |
| 380 | 595256.36 | 4798115.48 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 381 | 595256.36 | 4798115.48 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1981% | 8.73 | 99% |
| 382 | 595256.36 | 4798115.48 | 77.4 | 74 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 384 | 595256.36 | 4798115.48 | 86 | 73 | 88% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1976% | 8.72 | 99% |
| 389 | 595256.36 | 4798115.48 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 394 | 595256.36 | 4798115.48 | 129 | 64 | 77% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 399 | 595215.57 | 4798129.37 | 38.7 | 100 | 120% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2037% | 8.81 | 100% |
| 401 | 595215.57 | 4798129.37 | 47.3 | 92 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2015% | 8.77 | 100% |
| 403 | 595215.57 | 4798129.37 | 55.9 | 87 | 104% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 406 | 595215.57 | 4798129.37 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1991% | 8.74 | 99% |
| 407 | 595215.57 | 4798129.37 | 73.1 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 408 | 595215.57 | 4798129.37 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 410 | 595215.57 | 4798129.37 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 415 | 595215.57 | 4798129.37 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 420 | 595215.57 | 4798129.37 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 425 | 595215.57 | 4798129.37 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 430 | 595206.51 | 4798125.13 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2040% | 8.82 | 100% |
| 432 | 595206.51 | 4798125.13 | 47.3 | 94 | 113% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2019% | 8.77 | 100% |
| 434 | 595206.51 | 4798125.13 | 55.9 | 88 | 107% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2006% | 8.75 | 99% |
| 437 | 595206.51 | 4798125.13 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1994% | 8.74 | 99% |
| 438 | 595206.51 | 4798125.13 | 73.1 | 83 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1991% | 8.73 | 99% |
| 439 | 595206.51 | 4798125.13 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 441 | 595206.51 | 4798125.13 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 446 | 595206.51 | 4798125.13 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 451 | 595206.51 | 4798125.13 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 456 | 595206.51 | 4798125.13 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 461 | 595206.31 | 4798125.03 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2040% | 8.82 | 100% |
| 463 | 595206.31 | 4798125.03 | 47.3 | 94 | 113% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2019% | 8.77 | 100% |
| 465 | 595206.31 | 4798125.03 | 55.9 | 89 | 107% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2006% | 8.75 | 99% |
| 468 | 595206.31 | 4798125.03 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1994% | 8.74 | 99% |
| 469 | 595206.31 | 4798125.03 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1991% | 8.73 | 99% |
| 470 | 595206.31 | 4798125.03 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 472 | 595206.31 | 4798125.03 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 477 | 595206.31 | 4798125.03 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 482 | 595206.31 | 4798125.03 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 487 | 595206.31 | 4798125.03 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 491 | 595276.09 | 4798010.05 | 38.7 | 96 | 115% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2032% | 8.81 | 100% |
| 493 | 595276.09 | 4798010.05 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2014% | 8.77 | 100% |
| 495 | 595276.09 | 4798010.05 | 55.9 | 85 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 498 | 595276.09 | 4798010.05 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1992% | 8.73 | 99% |
| 499 | 595276.09 | 4798010.05 | 73.1 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 500 | 595276.09 | 4798010.05 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 502 | 595276.09 | 4798010.05 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 507 | 595276.09 | 4798010.05 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 511 | 595267.34 | 4798005.47 | 38.7 | 99 | 119% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2035% | 8.81 | 100% |
| 513 | 595267.34 | 4798005.47 | 47.3 | 91 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2017% | 8.77 | 100% |
| 515 | 595267.34 | 4798005.47 | 55.9 | 88 | 106% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2005% | 8.75 | 99% |
| 518 | 595267.34 | 4798005.47 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1995% | 8.74 | 99% |
| 519 | 595267.34 | 4798005.47 | 73.1 | 82 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1992% | 8.73 | 99% |
| 520 | 595267.34 | 4798005.47 | 77.4 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1989% | 8.73 | 99% |
| 522 | 595267.34 | 4798005.47 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 527 | 595267.34 | 4798005.47 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1973% | 8.71 | 99% |
| 531 | 595266.69 | 4798005.17 | 38.7 | 99 | 119% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2036% | 8.81 | 100% |
| 533 | 595266.69 | 4798005.17 | 47.3 | 92 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2018% | 8.77 | 100% |
| 535 | 595266.69 | 4798005.17 | 55.9 | 88 | 106% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2005% | 8.75 | 99% |
| 538 | 595266.69 | 4798005.17 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1995% | 8.74 | 99% |
| 539 | 595266.69 | 4798005.17 | 73.1 | 82 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1992% | 8.73 | 99% |
| 540 | 595266.69 | 4798005.17 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1989% | 8.73 | 99% |
| 542 | 595266.69 | 4798005.17 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 547 | 595266.69 | 4798005.17 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1973% | 8.71 | 99% |
| 548 | 595299.24 | 4797994.12 | 4.3 | 154 | 186% | 45 | 188% | 0.93 | 206% | 4.3E-04 | 4311% | 1.5E-03 | 2949% | 9.68 | 110% |
| 556 | 595299.24 | 4797994.12 | 38.7 | 93 | 112% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2028% | 8.81 | 100% |
| 558 | 595299.24 | 4797994.12 | 47.3 | 86 | 104% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2009% | 8.77 | 100% |
| 560 | 595299.24 | 4797994.12 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 563 | 595299.24 | 4797994.12 | 68.8 | 79 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1988% | 8.73 | 99% |
| 564 | 595299.24 | 4797994.12 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1986% | 8.73 | 99% |
| 565 | 595299.24 | 4797994.12 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1984% | 8.73 | 99% |
| 567 | 595299.24 | 4797994.12 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 568 | 595306.63 | 4797996.97 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 206% | 4.2E-04 | 4242% | 1.4E-03 | 2899% | 9.62 | 109% |
| 576 | 595306.63 | 4797996.97 | 38.7 | 91 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2025% | 8.81 | 100% |
| 578 | 595306.63 | 4797996.97 | 47.3 | 85 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2006% | 8.77 | 100% |
| 580 | 595306.63 | 4797996.97 | 55.9 | 81 | 98% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1997% | 8.75 | 99% |
| 583 | 595306.63 | 4797996.97 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 584 | 595306.63 | 4797996.97 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1984% | 8.73 | 99% |
| 585 | 595306.63 | 4797996.97 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1982% | 8.73 | 99% |
| 587 | 595306.63 | 4797996.97 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 588 | 595307.58 | 4797996.90 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 206% | 4.2E-04 | 4235% | 1.4E-03 | 2894% | 9.62 | 109% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 596 | 595307.58 | 4797996.90 | 38.7 | 91 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2025% | 8.81 | 100% |
| 598 | 595307.58 | 4797996.90 | 47.3 | 85 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2005% | 8.77 | 100% |
| 600 | 595307.58 | 4797996.90 | 55.9 | 81 | 98% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1997% | 8.75 | 99% |
| 603 | 595307.58 | 4797996.90 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 604 | 595307.58 | 4797996.90 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1984% | 8.73 | 99% |
| 605 | 595307.58 | 4797996.90 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1982% | 8.73 | 99% |
| 607 | 595307.58 | 4797996.90 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 612 | 595236.88 | 4798102.02 | 38.7 | 96 | 116% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2033% | 8.81 | 100% |
| 614 | 595236.88 | 4798102.02 | 47.3 | 90 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2013% | 8.77 | 100% |
| 616 | 595236.88 | 4798102.02 | 55.9 | 85 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 619 | 595236.88 | 4798102.02 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 9.9E-04 | 1990% | 8.74 | 99% |
| 620 | 595236.88 | 4798102.02 | 73.1 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 9.9E-04 | 1987% | 8.73 | 99% |
| 621 | 595236.88 | 4798102.02 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 623 | 595236.88 | 4798102.02 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 628 | 595236.88 | 4798102.02 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 633 | 595236.88 | 4798102.02 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 638 | 595239.40 | 4798111.70 | 38.7 | 95 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2031% | 8.81 | 100% |
| 640 | 595239.40 | 4798111.70 | 47.3 | 89 | 108% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2012% | 8.77 | 100% |
| 642 | 595239.40 | 4798111.70 | 55.9 | 85 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 645 | 595239.40 | 4798111.70 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1988% | 8.74 | 99% |
| 646 | 595239.40 | 4798111.70 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1985% | 8.73 | 99% |
| 647 | 595239.40 | 4798111.70 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1983% | 8.73 | 99% |
| 649 | 595239.40 | 4798111.70 | 86 | 75 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 654 | 595239.40 | 4798111.70 | 107.5 | 69 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 659 | 595239.40 | 4798111.70 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 664 | 595239.75 | 4798113.05 | 38.7 | 94 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2031% | 8.81 | 100% |
| 666 | 595239.75 | 4798113.05 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2011% | 8.77 | 100% |
| 668 | 595239.75 | 4798113.05 | 55.9 | 84 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 671 | 595239.75 | 4798113.05 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1987% | 8.74 | 99% |
| 672 | 595239.75 | 4798113.05 | 73.1 | 78 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1985% | 8.73 | 99% |
| 673 | 595239.75 | 4798113.05 | 77.4 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1983% | 8.73 | 99% |
| 675 | 595239.75 | 4798113.05 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 680 | 595239.75 | 4798113.05 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 685 | 595239.75 | 4798113.05 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 686 | 595247.79 | 4798117.73 | 4.3 | 155 | 186% | 45 | 189% | 0.93 | 208% | 4.3E-04 | 4260% | 1.5E-03 | 2927% | 9.70 | 110% |
| 689 | 595255.21 | 4798116.58 | 4.3 | 153 | 185% | 44 | 185% | 0.93 | 207% | 4.2E-04 | 4208% | 1.4E-03 | 2886% | 9.65 | 110% |
| 692 | 595256.36 | 4798115.48 | 4.3 | 153 | 185% | 44 | 185% | 0.93 | 207% | 4.2E-04 | 4203% | 1.4E-03 | 2883% | 9.64 | 110% |
| 695 | 595255.85 | 4798002.88 | 4.3 | 162 | 196% | 53 | 220% | 0.95 | 211% | 4.8E-04 | 4771% | 1.6E-03 | 3275% | 10.08 | 115% |
| 703 | 595255.85 | 4798002.88 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2041% | 8.81 | 100% |
| 705 | 595255.85 | 4798002.88 | 47.3 | 96 | 115% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 707 | 595255.85 | 4798002.88 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 710 | 595255.85 | 4798002.88 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 711 | 595255.85 | 4798002.88 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |
| 712 | 595255.85 | 4798002.88 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 714 | 595255.85 | 4798002.88 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 719 | 595255.85 | 4798002.88 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 720 | 595251.45 | 4798011.86 | 4.3 | 163 | 196% | 53 | 220% | 0.95 | 211% | 4.8E-04 | 4776% | 1.6E-03 | 3281% | 10.09 | 115% |
| 728 | 595251.45 | 4798011.86 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2042% | 8.81 | 100% |
| 730 | 595251.45 | 4798011.86 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 732 | 595251.45 | 4798011.86 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 735 | 595251.45 | 4798011.86 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 736 | 595251.45 | 4798011.86 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 737 | 595251.45 | 4798011.86 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 739 | 595251.45 | 4798011.86 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 744 | 595251.45 | 4798011.86 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 745 | 595250.05 | 4798014.71 | 4.3 | 163 | 196% | 53 | 221% | 0.95 | 211% | 4.8E-04 | 4778% | 1.6E-03 | 3283% | 10.09 | 115% |
| 753 | 595250.05 | 4798014.71 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2042% | 8.81 | 100% |
| 755 | 595250.05 | 4798014.71 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 757 | 595250.05 | 4798014.71 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 760 | 595250.05 | 4798014.71 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 761 | 595250.05 | 4798014.71 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |
| 762 | 595250.05 | 4798014.71 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 764 | 595250.05 | 4798014.71 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 769 | 595250.05 | 4798014.71 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 776 | 595266.69 | 4798005.17 | 38.7 | 99 | 119% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2036% | 8.81 | 100% |
| 778 | 595266.69 | 4798005.17 | 47.3 | 92 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2018% | 8.77 | 100% |
| 780 | 595266.69 | 4798005.17 | 55.9 | 88 | 106% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2005% | 8.75 | 99% |
| 783 | 595266.69 | 4798005.17 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1995% | 8.74 | 99% |
| 784 | 595266.69 | 4798005.17 | 73.1 | 82 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1992% | 8.73 | 99% |
| 785 | 595266.69 | 4798005.17 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1989% | 8.73 | 99% |
| 787 | 595266.69 | 4798005.17 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 792 | 595266.69 | 4798005.17 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1973% | 8.71 | 99% |
| 799 | 595257.66 | 4798000.87 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2041% | 8.81 | 100% |
| 801 | 595257.66 | 4798000.87 | 47.3 | 95 | 115% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 803 | 595257.66 | 4798000.87 | 55.9 | 91 | 109% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 806 | 595257.66 | 4798000.87 | 68.8 | 85 | 102% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 807 | 595257.66 | 4798000.87 | 73.1 | 83 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1993% | 8.73 | 99% |
| 808 | 595257.66 | 4798000.87 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 810 | 595257.66 | 4798000.87 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 815 | 595257.66 | 4798000.87 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 822 | 595255.85 | 4798002.88 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2041% | 8.81 | 100% |
| 824 | 595255.85 | 4798002.88 | 47.3 | 96 | 115% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 826 | 595255.85 | 4798002.88 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 829 | 595255.85 | 4798002.88 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 830 | 595255.85 | 4798002.88 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |
| 831 | 595255.85 | 4798002.88 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 833 | 595255.85 | 4798002.88 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 838 | 595255.85 | 4798002.88 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 842 | 595294.44 | 4797975.78 | 38.7 | 95 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3320% | 1.0E-03 | 2031% | 8.81 | 100% |
| 844 | 595294.44 | 4797975.78 | 47.3 | 88 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2013% | 8.77 | 100% |
| 846 | 595294.44 | 4797975.78 | 55.9 | 85 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2001% | 8.75 | 99% |
| 849 | 595294.44 | 4797975.78 | 68.8 | 81 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1991% | 8.73 | 99% |
| 850 | 595294.44 | 4797975.78 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 851 | 595294.44 | 4797975.78 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1987% | 8.73 | 99% |
| 853 | 595294.44 | 4797975.78 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 854 | 595294.44 | 4797975.78 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 858 | 595297.00 | 4797985.44 | 38.7 | 94 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2030% | 8.81 | 100% |
| 860 | 595297.00 | 4797985.44 | 47.3 | 87 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2011% | 8.77 | 100% |
| 862 | 595297.00 | 4797985.44 | 55.9 | 83 | 101% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2000% | 8.75 | 99% |
| 865 | 595297.00 | 4797985.44 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1990% | 8.73 | 99% |
| 866 | 595297.00 | 4797985.44 | 73.1 | 78 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1987% | 8.73 | 99% |
| 867 | 595297.00 | 4797985.44 | 77.4 | 78 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1985% | 8.73 | 99% |
| 869 | 595297.00 | 4797985.44 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 870 | 595297.00 | 4797985.44 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 874 | 595297.98 | 4797989.17 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2029% | 8.81 | 100% |
| 876 | 595297.98 | 4797989.17 | 47.3 | 87 | 104% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2010% | 8.77 | 100% |
| 878 | 595297.98 | 4797989.17 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2000% | 8.75 | 99% |
| 881 | 595297.98 | 4797989.17 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1989% | 8.73 | 99% |
| 882 | 595297.98 | 4797989.17 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1987% | 8.73 | 99% |
| 883 | 595297.98 | 4797989.17 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1985% | 8.73 | 99% |
| 885 | 595297.98 | 4797989.17 | 86 | 75 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 886 | 595297.98 | 4797989.17 | 86 | 75 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 887 | 595242.44 | 4798033.87 | 4.3 | 163 | 196% | 53 | 220% | 0.95 | 211% | 4.8E-04 | 4762% | 1.6E-03 | 3277% | 10.08 | 115% |
| 895 | 595242.44 | 4798033.87 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2042% | 8.82 | 100% |
| 897 | 595242.44 | 4798033.87 | 47.3 | 96 | 116% | 23 | 97% | 0.88 | 196% | 3.3E-04 | 3281% | 1.0E-03 | 2021% | 8.77 | 100% |
| 899 | 595242.44 | 4798033.87 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 902 | 595242.44 | 4798033.87 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 903 | 595242.44 | 4798033.87 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1993% | 8.73 | 99% |
| 904 | 595242.44 | 4798033.87 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 906 | 595242.44 | 4798033.87 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 911 | 595242.44 | 4798033.87 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 912 | 595248.08 | 4798042.05 | 4.3 | 160 | 193% | 51 | 211% | 0.94 | 210% | 4.6E-04 | 4622% | 1.6E-03 | 3180% | 9.97 | 113% |
| 920 | 595248.08 | 4798042.05 | 38.7 | 100 | 121% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2037% | 8.81 | 100% |
| 922 | 595248.08 | 4798042.05 | 47.3 | 93 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2018% | 8.77 | 100% |
| 924 | 595248.08 | 4798042.05 | 55.9 | 88 | 106% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2005% | 8.75 | 99% |
| 927 | 595248.08 | 4798042.05 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1995% | 8.74 | 99% |
| 928 | 595248.08 | 4798042.05 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1992% | 8.73 | 99% |
| 929 | 595248.08 | 4798042.05 | 77.4 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1989% | 8.73 | 99% |
| 931 | 595248.08 | 4798042.05 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 936 | 595248.08 | 4798042.05 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 937 | 595254.04 | 4798039.82 | 4.3 | 159 | 192% | 50 | 207% | 0.94 | 209% | 4.6E-04 | 4557% | 1.6E-03 | 3132% | 9.91 | 113% |
| 945 | 595254.04 | 4798039.82 | 38.7 | 98 | 119% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2034% | 8.81 | 100% |
| 947 | 595254.04 | 4798039.82 | 47.3 | 92 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2017% | 8.77 | 100% |
| 949 | 595254.04 | 4798039.82 | 55.9 | 87 | 105% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2004% | 8.75 | 99% |
| 952 | 595254.04 | 4798039.82 | 68.8 | 83 | 100% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1994% | 8.74 | 99% |
| 953 | 595254.04 | 4798039.82 | 73.1 | 82 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1991% | 8.73 | 99% |
| 954 | 595254.04 | 4798039.82 | 77.4 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 956 | 595254.04 | 4798039.82 | 86 | 77 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 961 | 595254.04 | 4798039.82 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 962 | 595256.36 | 4798115.48 | 4.3 | 153 | 185% | 44 | 185% | 0.93 | 207% | 4.2E-04 | 4203% | 1.4E-03 | 2883% | 9.64 | 110% |
| 970 | 595256.36 | 4798115.48 | 38.7 | 90 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2025% | 8.81 | 100% |
| 972 | 595256.36 | 4798115.48 | 47.3 | 86 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2008% | 8.77 | 100% |
| 974 | 595256.36 | 4798115.48 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1997% | 8.75 | 99% |
| 977 | 595256.36 | 4798115.48 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 978 | 595256.36 | 4798115.48 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1981% | 8.73 | 99% |
| 979 | 595256.36 | 4798115.48 | 77.4 | 74 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 981 | 595256.36 | 4798115.48 | 86 | 73 | 88% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1976% | 8.72 | 99% |
| 986 | 595256.36 | 4798115.48 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 991 | 595256.36 | 4798115.48 | 129 | 64 | 77% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 992 | 595264.65 | 4798109.90 | 4.3 | 152 | 184% | 44 | 182% | 0.93 | 206% | 4.2E-04 | 4164% | 1.4E-03 | 2851% | 9.60 | 109% |
| 1000 | 595264.65 | 4798109.90 | 38.7 | 89 | 107% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1002 | 595264.65 | 4798109.90 | 47.3 | 85 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2006% | 8.77 | 100% |
| 1004 | 595264.65 | 4798109.90 | 55.9 | 81 | 98% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3253% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1007 | 595264.65 | 4798109.90 | 68.8 | 76 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1008 | 595264.65 | 4798109.90 | 73.1 | 75 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1980% | 8.73 | 99% |
| 1009 | 595264.65 | 4798109.90 | 77.4 | 74 | 89% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1978% | 8.73 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1011 | 595264.65 | 4798109.90 | 86 | 72 | 87% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1975% | 8.72 | 99% |
| 1016 | 595264.65 | 4798109.90 | 107.5 | 68 | 82% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 1021 | 595264.65 | 4798109.90 | 129 | 64 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 1022 | 595264.49 | 4798102.68 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 207% | 4.2E-04 | 4188% | 1.4E-03 | 2869% | 9.62 | 109% |
| 1030 | 595264.49 | 4798102.68 | 38.7 | 90 | 108% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1032 | 595264.49 | 4798102.68 | 47.3 | 85 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2007% | 8.77 | 100% |
| 1034 | 595264.49 | 4798102.68 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1037 | 595264.49 | 4798102.68 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1038 | 595264.49 | 4798102.68 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1039 | 595264.49 | 4798102.68 | 77.4 | 74 | 89% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 1041 | 595264.49 | 4798102.68 | 86 | 72 | 87% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1976% | 8.72 | 99% |
| 1046 | 595264.49 | 4798102.68 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 1051 | 595264.49 | 4798102.68 | 129 | 64 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1052 | 595264.02 | 4798101.99 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 207% | 4.2E-04 | 4194% | 1.4E-03 | 2873% | 9.62 | 109% |
| 1060 | 595264.02 | 4798101.99 | 38.7 | 90 | 108% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1062 | 595264.02 | 4798101.99 | 47.3 | 86 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2007% | 8.77 | 100% |
| 1064 | 595264.02 | 4798101.99 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1067 | 595264.02 | 4798101.99 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1068 | 595264.02 | 4798101.99 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1069 | 595264.02 | 4798101.99 | 77.4 | 74 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 1071 | 595264.02 | 4798101.99 | 86 | 73 | 87% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1976% | 8.72 | 99% |
| 1076 | 595264.02 | 4798101.99 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 1081 | 595264.02 | 4798101.99 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1082 | 595275.76 | 4798025.23 | 4.3 | 156 | 188% | 47 | 195% | 0.93 | 207% | 4.4E-04 | 4391% | 1.5E-03 | 3011% | 9.76 | 111% |
| 1090 | 595275.76 | 4798025.23 | 38.7 | 94 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2030% | 8.81 | 100% |
| 1092 | 595275.76 | 4798025.23 | 47.3 | 88 | 106% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2012% | 8.77 | 100% |
| 1094 | 595275.76 | 4798025.23 | 55.9 | 84 | 101% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 1097 | 595275.76 | 4798025.23 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1098 | 595275.76 | 4798025.23 | 73.1 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1099 | 595275.76 | 4798025.23 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1101 | 595275.76 | 4798025.23 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1106 | 595275.76 | 4798025.23 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1107 | 595282.34 | 4798019.29 | 4.3 | 155 | 187% | 46 | 192% | 0.93 | 207% | 4.4E-04 | 4355% | 1.5E-03 | 2984% | 9.73 | 111% |
| 1115 | 595282.34 | 4798019.29 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2029% | 8.81 | 100% |
| 1117 | 595282.34 | 4798019.29 | 47.3 | 87 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2011% | 8.77 | 100% |
| 1119 | 595282.34 | 4798019.29 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2000% | 8.75 | 99% |
| 1122 | 595282.34 | 4798019.29 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1123 | 595282.34 | 4798019.29 | 73.1 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1124 | 595282.34 | 4798019.29 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 1126 | 595282.34 | 4798019.29 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 1131 | 595282.34 | 4798019.29 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1132 | 595276.74 | 4798011.01 | 4.3 | 157 | 189% | 48 | 198% | 0.94 | 208% | 4.4E-04 | 4447% | 1.5E-03 | 3049% | 9.80 | 111% |
| 1140 | 595276.74 | 4798011.01 | 38.7 | 95 | 115% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1142 | 595276.74 | 4798011.01 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2014% | 8.77 | 100% |
| 1144 | 595276.74 | 4798011.01 | 55.9 | 85 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1147 | 595276.74 | 4798011.01 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1992% | 8.73 | 99% |
| 1148 | 595276.74 | 4798011.01 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1149 | 595276.74 | 4798011.01 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1151 | 595276.74 | 4798011.01 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1156 | 595276.74 | 4798011.01 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1157 | 595276.09 | 4798010.05 | 4.3 | 157 | 189% | 48 | 199% | 0.94 | 208% | 4.5E-04 | 4459% | 1.5E-03 | 3057% | 9.81 | 112% |
| 1165 | 595276.09 | 4798010.05 | 38.7 | 96 | 115% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2032% | 8.81 | 100% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1167 | 595276.09 | 4798010.05 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2014% | 8.77 | 100% |
| 1169 | 595276.09 | 4798010.05 | 55.9 | 85 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1172 | 595276.09 | 4798010.05 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1992% | 8.73 | 99% |
| 1173 | 595276.09 | 4798010.05 | 73.1 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1174 | 595276.09 | 4798010.05 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1176 | 595276.09 | 4798010.05 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1181 | 595276.09 | 4798010.05 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1188 | 595250.05 | 4798014.71 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2042% | 8.81 | 100% |
| 1190 | 595250.05 | 4798014.71 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 1192 | 595250.05 | 4798014.71 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 1195 | 595250.05 | 4798014.71 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 1196 | 595250.05 | 4798014.71 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |
| 1197 | 595250.05 | 4798014.71 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1199 | 595250.05 | 4798014.71 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 1204 | 595250.05 | 4798014.71 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 1211 | 595245.75 | 4798023.74 | 38.7 | 103 | 124% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2042% | 8.81 | 100% |
| 1213 | 595245.75 | 4798023.74 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 1215 | 595245.75 | 4798023.74 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 1218 | 595245.75 | 4798023.74 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 1219 | 595245.75 | 4798023.74 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1994% | 8.73 | 99% |
| 1220 | 595245.75 | 4798023.74 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1222 | 595245.75 | 4798023.74 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 1227 | 595245.75 | 4798023.74 | 107.5 | 72 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3215% | 9.9E-04 | 1974% | 8.71 | 99% |
| 1234 | 595243.33 | 4798032.05 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2042% | 8.82 | 100% |
| 1236 | 595243.33 | 4798032.05 | 47.3 | 96 | 116% | 23 | 97% | 0.88 | 196% | 3.3E-04 | 3280% | 1.0E-03 | 2020% | 8.77 | 100% |
| 1238 | 595243.33 | 4798032.05 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 1241 | 595243.33 | 4798032.05 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 1242 | 595243.33 | 4798032.05 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1993% | 8.73 | 99% |
| 1243 | 595243.33 | 4798032.05 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1245 | 595243.33 | 4798032.05 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 1250 | 595243.33 | 4798032.05 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1257 | 595242.44 | 4798033.87 | 38.7 | 102 | 123% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3326% | 1.0E-03 | 2042% | 8.82 | 100% |
| 1259 | 595242.44 | 4798033.87 | 47.3 | 96 | 116% | 23 | 97% | 0.88 | 196% | 3.3E-04 | 3281% | 1.0E-03 | 2021% | 8.77 | 100% |
| 1261 | 595242.44 | 4798033.87 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3258% | 1.0E-03 | 2009% | 8.75 | 99% |
| 1264 | 595242.44 | 4798033.87 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1997% | 8.74 | 99% |
| 1265 | 595242.44 | 4798033.87 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1993% | 8.73 | 99% |
| 1266 | 595242.44 | 4798033.87 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1268 | 595242.44 | 4798033.87 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 1273 | 595242.44 | 4798033.87 | 107.5 | 71 | 86% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1274 | 595250.05 | 4798014.71 | 4.3 | 163 | 196% | 53 | 221% | 0.95 | 211% | 4.8E-04 | 4778% | 1.6E-03 | 3283% | 10.09 | 115% |
| 1277 | 595244.40 | 4798020.04 | 4.3 | 164 | 197% | 54 | 224% | 0.95 | 211% | 4.8E-04 | 4834% | 1.7E-03 | 3322% | 10.14 | 115% |
| 1280 | 595240.04 | 4798029.04 | 4.3 | 164 | 198% | 54 | 225% | 0.95 | 212% | 4.8E-04 | 4840% | 1.7E-03 | 3331% | 10.15 | 115% |
| 1283 | 595242.44 | 4798033.87 | 4.3 | 163 | 196% | 53 | 220% | 0.95 | 211% | 4.8E-04 | 4762% | 1.6E-03 | 3277% | 10.08 | 115% |
| 1292 | 595254.04 | 4798039.82 | 38.7 | 98 | 119% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2034% | 8.81 | 100% |
| 1294 | 595254.04 | 4798039.82 | 47.3 | 92 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2017% | 8.77 | 100% |
| 1296 | 595254.04 | 4798039.82 | 55.9 | 87 | 105% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2004% | 8.75 | 99% |
| 1299 | 595254.04 | 4798039.82 | 68.8 | 83 | 100% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1994% | 8.74 | 99% |
| 1300 | 595254.04 | 4798039.82 | 73.1 | 82 | 99% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1991% | 8.73 | 99% |
| 1301 | 595254.04 | 4798039.82 | 77.4 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1303 | 595254.04 | 4798039.82 | 86 | 77 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1308 | 595254.04 | 4798039.82 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1315 | 595262.34 | 4798034.24 | 38.7 | 97 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2032% | 8.81 | 100% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1317 | 595262.34 | 4798034.24 | 47.3 | 90 | 108% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2015% | 8.77 | 100% |
| 1319 | 595262.34 | 4798034.24 | 55.9 | 86 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2003% | 8.75 | 99% |
| 1322 | 595262.34 | 4798034.24 | 68.8 | 82 | 99% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1992% | 8.74 | 99% |
| 1323 | 595262.34 | 4798034.24 | 73.1 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1990% | 8.73 | 99% |
| 1324 | 595262.34 | 4798034.24 | 77.4 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1326 | 595262.34 | 4798034.24 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1331 | 595262.34 | 4798034.24 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1338 | 595270.64 | 4798028.67 | 38.7 | 95 | 115% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1340 | 595270.64 | 4798028.67 | 47.3 | 88 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2013% | 8.77 | 100% |
| 1342 | 595270.64 | 4798028.67 | 55.9 | 84 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1345 | 595270.64 | 4798028.67 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1991% | 8.74 | 99% |
| 1346 | 595270.64 | 4798028.67 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1347 | 595270.64 | 4798028.67 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1349 | 595270.64 | 4798028.67 | 86 | 77 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1354 | 595270.64 | 4798028.67 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1361 | 595275.76 | 4798025.23 | 38.7 | 94 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2030% | 8.81 | 100% |
| 1363 | 595275.76 | 4798025.23 | 47.3 | 88 | 106% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2012% | 8.77 | 100% |
| 1365 | 595275.76 | 4798025.23 | 55.9 | 84 | 101% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 1368 | 595275.76 | 4798025.23 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1369 | 595275.76 | 4798025.23 | 73.1 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1370 | 595275.76 | 4798025.23 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1372 | 595275.76 | 4798025.23 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1377 | 595275.76 | 4798025.23 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 1378 | 595218.35 | 4798132.75 | 4.3 | 159 | 192% | 50 | 207% | 0.95 | 211% | 4.5E-04 | 4472% | 1.5E-03 | 3092% | 9.91 | 113% |
| 1381 | 595226.65 | 4798127.17 | 4.3 | 158 | 190% | 48 | 202% | 0.94 | 210% | 4.4E-04 | 4411% | 1.5E-03 | 3044% | 9.84 | 112% |
| 1384 | 595234.95 | 4798121.60 | 4.3 | 157 | 189% | 47 | 197% | 0.94 | 209% | 4.4E-04 | 4355% | 1.5E-03 | 3000% | 9.79 | 111% |
| 1387 | 595240.85 | 4798117.64 | 4.3 | 156 | 188% | 47 | 194% | 0.94 | 208% | 4.3E-04 | 4318% | 1.5E-03 | 2972% | 9.75 | 111% |
| 1390 | 595254.04 | 4798039.82 | 4.3 | 159 | 192% | 50 | 207% | 0.94 | 209% | 4.6E-04 | 4557% | 1.6E-03 | 3132% | 9.91 | 113% |
| 1393 | 595262.19 | 4798034.99 | 4.3 | 158 | 190% | 48 | 202% | 0.94 | 208% | 4.5E-04 | 4486% | 1.5E-03 | 3081% | 9.85 | 112% |
| 1396 | 595270.49 | 4798029.41 | 4.3 | 157 | 189% | 47 | 197% | 0.94 | 208% | 4.4E-04 | 4424% | 1.5E-03 | 3035% | 9.79 | 111% |
| 1399 | 595275.76 | 4798025.23 | 4.3 | 156 | 188% | 47 | 195% | 0.93 | 207% | 4.4E-04 | 4391% | 1.5E-03 | 3011% | 9.76 | 111% |
| 1402 | 595276.34 | 4798009.55 | 4.3 | 157 | 189% | 48 | 199% | 0.94 | 208% | 4.5E-04 | 4458% | 1.5E-03 | 3057% | 9.81 | 112% |
| 1405 | 595284.63 | 4798003.96 | 4.3 | 156 | 188% | 47 | 195% | 0.93 | 207% | 4.4E-04 | 4400% | 1.5E-03 | 3015% | 9.76 | 111% |
| 1408 | 595292.92 | 4797998.37 | 4.3 | 155 | 187% | 46 | 191% | 0.93 | 207% | 4.3E-04 | 4348% | 1.5E-03 | 2977% | 9.72 | 110% |
| 1411 | 595299.24 | 4797994.12 | 4.3 | 154 | 186% | 45 | 188% | 0.93 | 206% | 4.3E-04 | 4311% | 1.5E-03 | 2949% | 9.68 | 110% |
| 1450 | 595310.50 | 4797996.70 | 4.3 | 152 | 183% | 44 | 181% | 0.93 | 206% | 4.2E-04 | 4215% | 1.4E-03 | 2879% | 9.60 | 109% |
| 1458 | 595310.50 | 4797996.70 | 38.7 | 90 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1460 | 595310.50 | 4797996.70 | 47.3 | 85 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2004% | 8.77 | 100% |
| 1462 | 595310.50 | 4797996.70 | 55.9 | 81 | 97% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1465 | 595310.50 | 4797996.70 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1466 | 595310.50 | 4797996.70 | 73.1 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1467 | 595310.50 | 4797996.70 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1469 | 595310.50 | 4797996.70 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1978% | 8.72 | 99% |
| 1470 | 595319.29 | 4797992.56 | 4.3 | 151 | 182% | 43 | 178% | 0.92 | 205% | 4.2E-04 | 4170% | 1.4E-03 | 2844% | 9.56 | 109% |
| 1478 | 595319.29 | 4797992.56 | 38.7 | 90 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1480 | 595319.29 | 4797992.56 | 47.3 | 83 | 100% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2002% | 8.77 | 100% |
| 1482 | 595319.29 | 4797992.56 | 55.9 | 80 | 97% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1994% | 8.75 | 99% |
| 1485 | 595319.29 | 4797992.56 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1985% | 8.73 | 99% |
| 1486 | 595319.29 | 4797992.56 | 73.1 | 76 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1982% | 8.73 | 99% |
| 1487 | 595319.29 | 4797992.56 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1980% | 8.73 | 99% |
| 1489 | 595319.29 | 4797992.56 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1977% | 8.72 | 99% |
| 1490 | 595327.58 | 4797986.97 | 4.3 | 151 | 182% | 42 | 175% | 0.92 | 205% | 4.1E-04 | 4135% | 1.4E-03 | 2818% | 9.53 | 108% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1498 | 595327.58 | 4797986.97 | 38.7 | 90 | 108% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1500 | 595327.58 | 4797986.97 | 47.3 | 83 | 99% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2000% | 8.77 | 100% |
| 1502 | 595327.58 | 4797986.97 | 55.9 | 80 | 96% | 22 | 93% | 0.88 | 196% | 3.3E-04 | 3253% | 1.0E-03 | 1993% | 8.75 | 99% |
| 1505 | 595327.58 | 4797986.97 | 68.8 | 76 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1506 | 595327.58 | 4797986.97 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1982% | 8.73 | 99% |
| 1507 | 595327.58 | 4797986.97 | 77.4 | 75 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 1509 | 595327.58 | 4797986.97 | 86 | 73 | 88% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1976% | 8.72 | 99% |
| 1510 | 595327.06 | 4797979.65 | 4.3 | 151 | 182% | 42 | 177% | 0.92 | 205% | 4.2E-04 | 4160% | 1.4E-03 | 2837% | 9.55 | 109% |
| 1518 | 595327.06 | 4797979.65 | 38.7 | 91 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1520 | 595327.06 | 4797979.65 | 47.3 | 83 | 100% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2001% | 8.77 | 100% |
| 1522 | 595327.06 | 4797979.65 | 55.9 | 80 | 96% | 22 | 93% | 0.88 | 196% | 3.3E-04 | 3253% | 1.0E-03 | 1994% | 8.75 | 99% |
| 1525 | 595327.06 | 4797979.65 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1985% | 8.73 | 99% |
| 1526 | 595327.06 | 4797979.65 | 73.1 | 76 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1982% | 8.73 | 99% |
| 1527 | 595327.06 | 4797979.65 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1980% | 8.73 | 99% |
| 1529 | 595327.06 | 4797979.65 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1977% | 8.72 | 99% |
| 1530 | 595322.40 | 4797975.75 | 4.3 | 152 | 183% | 43 | 180% | 0.92 | 205% | 4.2E-04 | 4203% | 1.4E-03 | 2869% | 9.59 | 109% |
| 1538 | 595322.40 | 4797975.75 | 38.7 | 92 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1540 | 595322.40 | 4797975.75 | 47.3 | 84 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2004% | 8.77 | 100% |
| 1542 | 595322.40 | 4797975.75 | 55.9 | 81 | 97% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1545 | 595322.40 | 4797975.75 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1546 | 595322.40 | 4797975.75 | 73.1 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1547 | 595322.40 | 4797975.75 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1549 | 595322.40 | 4797975.75 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1978% | 8.72 | 99% |
| 1600 | 595264.02 | 4798101.99 | 38.7 | 90 | 108% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1602 | 595264.02 | 4798101.99 | 47.3 | 86 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3274% | 1.0E-03 | 2007% | 8.77 | 100% |
| 1604 | 595264.02 | 4798101.99 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1607 | 595264.02 | 4798101.99 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1608 | 595264.02 | 4798101.99 | 73.1 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1609 | 595264.02 | 4798101.99 | 77.4 | 74 | 90% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1979% | 8.73 | 99% |
| 1611 | 595264.02 | 4798101.99 | 86 | 73 | 87% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1976% | 8.72 | 99% |
| 1616 | 595264.02 | 4798101.99 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1969% | 8.71 | 99% |
| 1621 | 595264.02 | 4798101.99 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1628 | 595258.41 | 4798093.72 | 38.7 | 92 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2027% | 8.81 | 100% |
| 1630 | 595258.41 | 4798093.72 | 47.3 | 87 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2009% | 8.77 | 100% |
| 1632 | 595258.41 | 4798093.72 | 55.9 | 83 | 100% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1997% | 8.75 | 99% |
| 1635 | 595258.41 | 4798093.72 | 68.8 | 78 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1636 | 595258.41 | 4798093.72 | 73.1 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1637 | 595258.41 | 4798093.72 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1639 | 595258.41 | 4798093.72 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1978% | 8.72 | 99% |
| 1644 | 595258.41 | 4798093.72 | 107.5 | 69 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 1649 | 595258.41 | 4798093.72 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1656 | 595252.80 | 4798085.44 | 38.7 | 94 | 113% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2029% | 8.81 | 100% |
| 1658 | 595252.80 | 4798085.44 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2010% | 8.77 | 100% |
| 1660 | 595252.80 | 4798085.44 | 55.9 | 84 | 101% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2000% | 8.75 | 99% |
| 1663 | 595252.80 | 4798085.44 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1988% | 8.74 | 99% |
| 1664 | 595252.80 | 4798085.44 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1665 | 595252.80 | 4798085.44 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1667 | 595252.80 | 4798085.44 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1980% | 8.72 | 99% |
| 1672 | 595252.80 | 4798085.44 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1677 | 595252.80 | 4798085.44 | 129 | 66 | 80% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 1684 | 595247.19 | 4798077.16 | 38.7 | 97 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1686 | 595247.19 | 4798077.16 | 47.3 | 89 | 108% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2014% | 8.77 | 100% |
| 1688 | 595247.19 | 4798077.16 | 55.9 | 85 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1691 | 595247.19 | 4798077.16 | 68.8 | 81 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1991% | 8.74 | 99% |
| 1692 | 595247.19 | 4798077.16 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1693 | 595247.19 | 4798077.16 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1695 | 595247.19 | 4798077.16 | 86 | 77 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1700 | 595247.19 | 4798077.16 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 1705 | 595247.19 | 4798077.16 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 1712 | 595239.82 | 4798077.49 | 38.7 | 99 | 119% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2033% | 8.81 | 100% |
| 1714 | 595239.82 | 4798077.49 | 47.3 | 91 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2016% | 8.77 | 100% |
| 1716 | 595239.82 | 4798077.49 | 55.9 | 86 | 104% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2003% | 8.75 | 99% |
| 1719 | 595239.82 | 4798077.49 | 68.8 | 82 | 99% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1993% | 8.74 | 99% |
| 1720 | 595239.82 | 4798077.49 | 73.1 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 9.9E-04 | 1990% | 8.73 | 99% |
| 1721 | 595239.82 | 4798077.49 | 77.4 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1723 | 595239.82 | 4798077.49 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1728 | 595239.82 | 4798077.49 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 1733 | 595239.82 | 4798077.49 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 1740 | 595233.80 | 4798083.95 | 38.7 | 100 | 120% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2035% | 8.81 | 100% |
| 1742 | 595233.80 | 4798083.95 | 47.3 | 92 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2017% | 8.77 | 100% |
| 1744 | 595233.80 | 4798083.95 | 55.9 | 87 | 105% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2003% | 8.75 | 99% |
| 1747 | 595233.80 | 4798083.95 | 68.8 | 83 | 100% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1993% | 8.74 | 99% |
| 1748 | 595233.80 | 4798083.95 | 73.1 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1749 | 595233.80 | 4798083.95 | 77.4 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1751 | 595233.80 | 4798083.95 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1756 | 595233.80 | 4798083.95 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 1761 | 595233.80 | 4798083.95 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1768 | 595234.54 | 4798092.99 | 38.7 | 99 | 119% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2033% | 8.81 | 100% |
| 1770 | 595234.54 | 4798092.99 | 47.3 | 91 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2015% | 8.77 | 100% |
| 1772 | 595234.54 | 4798092.99 | 55.9 | 86 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1775 | 595234.54 | 4798092.99 | 68.8 | 82 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 1.0E-03 | 1992% | 8.74 | 99% |
| 1776 | 595234.54 | 4798092.99 | 73.1 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1777 | 595234.54 | 4798092.99 | 77.4 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1779 | 595234.54 | 4798092.99 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1784 | 595234.54 | 4798092.99 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 1789 | 595234.54 | 4798092.99 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1796 | 595236.88 | 4798102.02 | 38.7 | 96 | 116% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2033% | 8.81 | 100% |
| 1798 | 595236.88 | 4798102.02 | 47.3 | 90 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2013% | 8.77 | 100% |
| 1800 | 595236.88 | 4798102.02 | 55.9 | 85 | 102% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 1803 | 595236.88 | 4798102.02 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3239% | 9.9E-04 | 1990% | 8.74 | 99% |
| 1804 | 595236.88 | 4798102.02 | 73.1 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3235% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1805 | 595236.88 | 4798102.02 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 1807 | 595236.88 | 4798102.02 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 1812 | 595236.88 | 4798102.02 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1972% | 8.71 | 99% |
| 1817 | 595236.88 | 4798102.02 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 1824 | 595322.40 | 4797975.75 | 38.7 | 92 | 110% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1826 | 595322.40 | 4797975.75 | 47.3 | 84 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2004% | 8.77 | 100% |
| 1828 | 595322.40 | 4797975.75 | 55.9 | 81 | 97% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1831 | 595322.40 | 4797975.75 | 68.8 | 77 | 93% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1832 | 595322.40 | 4797975.75 | 73.1 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1833 | 595322.40 | 4797975.75 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1981% | 8.73 | 99% |
| 1835 | 595322.40 | 4797975.75 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1978% | 8.72 | 99% |
| 1842 | 595325.05 | 4797982.96 | 38.7 | 91 | 109% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2024% | 8.81 | 100% |
| 1844 | 595325.05 | 4797982.96 | 47.3 | 83 | 100% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2002% | 8.77 | 100% |
| 1846 | 595325.05 | 4797982.96 | 55.9 | 80 | 96% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3253% | 1.0E-03 | 1994% | 8.75 | 99% |
| 1849 | 595325.05 | 4797982.96 | 68.8 | 77 | 92% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1985% | 8.73 | 99% |
| 1850 | 595325.05 | 4797982.96 | 73.1 | 76 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1982% | 8.73 | 99% |
| 1851 | 595325.05 | 4797982.96 | 77.4 | 75 | 91% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1980% | 8.73 | 99% |
| 1853 | 595325.05 | 4797982.96 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1977% | 8.72 | 99% |
| 1860 | 595319.45 | 4797974.67 | 38.7 | 92 | 111% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2025% | 8.81 | 100% |
| 1862 | 595319.45 | 4797974.67 | 47.3 | 85 | 102% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3275% | 1.0E-03 | 2005% | 8.77 | 100% |
| 1864 | 595319.45 | 4797974.67 | 55.9 | 81 | 98% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3254% | 1.0E-03 | 1996% | 8.75 | 99% |
| 1867 | 595319.45 | 4797974.67 | 68.8 | 78 | 94% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1868 | 595319.45 | 4797974.67 | 73.1 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1983% | 8.73 | 99% |
| 1869 | 595319.45 | 4797974.67 | 77.4 | 76 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1982% | 8.73 | 99% |
| 1871 | 595319.45 | 4797974.67 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1979% | 8.72 | 99% |
| 1878 | 595313.86 | 4797966.38 | 38.7 | 94 | 113% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2029% | 8.81 | 100% |
| 1880 | 595313.86 | 4797966.38 | 47.3 | 86 | 103% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2008% | 8.77 | 100% |
| 1882 | 595313.86 | 4797966.38 | 55.9 | 82 | 99% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 1885 | 595313.86 | 4797966.38 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1886 | 595313.86 | 4797966.38 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1887 | 595313.86 | 4797966.38 | 77.4 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1984% | 8.73 | 99% |
| 1889 | 595313.86 | 4797966.38 | 86 | 74 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1980% | 8.72 | 99% |
| 1896 | 595308.26 | 4797958.10 | 38.7 | 96 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3320% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1898 | 595308.26 | 4797958.10 | 47.3 | 87 | 105% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2011% | 8.77 | 100% |
| 1900 | 595308.26 | 4797958.10 | 55.9 | 84 | 101% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2000% | 8.75 | 99% |
| 1903 | 595308.26 | 4797958.10 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3237% | 1.0E-03 | 1990% | 8.73 | 99% |
| 1904 | 595308.26 | 4797958.10 | 73.1 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1905 | 595308.26 | 4797958.10 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1986% | 8.73 | 99% |
| 1907 | 595308.26 | 4797958.10 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1982% | 8.72 | 99% |
| 1914 | 595301.16 | 4797957.57 | 38.7 | 96 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2032% | 8.81 | 100% |
| 1916 | 595301.16 | 4797957.57 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2013% | 8.77 | 100% |
| 1918 | 595301.16 | 4797957.57 | 55.9 | 85 | 103% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |
| 1921 | 595301.16 | 4797957.57 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1992% | 8.73 | 99% |
| 1922 | 595301.16 | 4797957.57 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3233% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1923 | 595301.16 | 4797957.57 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1925 | 595301.16 | 4797957.57 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1932 | 595292.86 | 4797963.16 | 38.7 | 97 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3321% | 1.0E-03 | 2033% | 8.81 | 100% |
| 1934 | 595292.86 | 4797963.16 | 47.3 | 90 | 108% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3278% | 1.0E-03 | 2015% | 8.77 | 100% |
| 1936 | 595292.86 | 4797963.16 | 55.9 | 86 | 104% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2003% | 8.75 | 99% |
| 1939 | 595292.86 | 4797963.16 | 68.8 | 82 | 99% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1993% | 8.73 | 99% |
| 1940 | 595292.86 | 4797963.16 | 73.1 | 81 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1991% | 8.73 | 99% |
| 1941 | 595292.86 | 4797963.16 | 77.4 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1988% | 8.73 | 99% |
| 1943 | 595292.86 | 4797963.16 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1950 | 595293.48 | 4797972.10 | 38.7 | 95 | 115% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3320% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1952 | 595293.48 | 4797972.10 | 47.3 | 89 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2014% | 8.77 | 100% |
| 1954 | 595293.48 | 4797972.10 | 55.9 | 86 | 103% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2002% | 8.75 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957 | 595293.48 | 4797972.10 | 68.8 | 82 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1992% | 8.73 | 99% |
| 1958 | 595293.48 | 4797972.10 | 73.1 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1990% | 8.73 | 99% |
| 1959 | 595293.48 | 4797972.10 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1961 | 595293.48 | 4797972.10 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1968 | 595294.44 | 4797975.78 | 38.7 | 95 | 114% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3320% | 1.0E-03 | 2031% | 8.81 | 100% |
| 1970 | 595294.44 | 4797975.78 | 47.3 | 88 | 107% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2013% | 8.77 | 100% |
| 1972 | 595294.44 | 4797975.78 | 55.9 | 85 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2001% | 8.75 | 99% |
| 1975 | 595294.44 | 4797975.78 | 68.8 | 81 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1991% | 8.73 | 99% |
| 1976 | 595294.44 | 4797975.78 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1989% | 8.73 | 99% |
| 1977 | 595294.44 | 4797975.78 | 77.4 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1987% | 8.73 | 99% |
| 1979 | 595294.44 | 4797975.78 | 86 | 76 | 92% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1983% | 8.72 | 99% |
| 1980 | 595199.74 | 4798121.91 | 4.3 | 165 | 199% | 55 | 229% | 0.96 | 214% | 4.8E-04 | 4810% | 1.7E-03 | 3336% | 10.20 | 116% |
| 1988 | 595199.74 | 4798121.91 | 38.7 | 105 | 127% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2044% | 8.81 | 100% |
| 1990 | 595199.74 | 4798121.91 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2021% | 8.77 | 100% |
| 1992 | 595199.74 | 4798121.91 | 55.9 | 91 | 109% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2009% | 8.75 | 99% |
| 1995 | 595199.74 | 4798121.91 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1998% | 8.73 | 99% |
| 1996 | 595199.74 | 4798121.91 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1995% | 8.73 | 99% |
| 1997 | 595199.74 | 4798121.91 | 77.4 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 1.0E-03 | 1991% | 8.73 | 99% |
| 1999 | 595199.74 | 4798121.91 | 86 | 78 | 94% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1985% | 8.72 | 99% |
| 2004 | 595199.74 | 4798121.91 | 107.5 | 71 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 2009 | 595199.74 | 4798121.91 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 2014 | 595199.74 | 4798121.91 | 150.5 | 63 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1959% | 8.71 | 99% |
| 2015 | 595194.68 | 4798128.96 | 4.3 | 166 | 200% | 56 | 232% | 0.96 | 214% | 4.8E-04 | 4844% | 1.7E-03 | 3362% | 10.24 | 116% |
| 2023 | 595194.68 | 4798128.96 | 38.7 | 105 | 127% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2045% | 8.81 | 100% |
| 2025 | 595194.68 | 4798128.96 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2022% | 8.77 | 100% |
| 2027 | 595194.68 | 4798128.96 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2010% | 8.75 | 99% |
| 2030 | 595194.68 | 4798128.96 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1999% | 8.73 | 99% |
| 2031 | 595194.68 | 4798128.96 | 73.1 | 84 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1995% | 8.73 | 99% |
| 2032 | 595194.68 | 4798128.96 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 1.0E-03 | 1992% | 8.73 | 99% |
| 2034 | 595194.68 | 4798128.96 | 86 | 78 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1986% | 8.72 | 99% |
| 2039 | 595194.68 | 4798128.96 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1974% | 8.71 | 99% |
| 2044 | 595194.68 | 4798128.96 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 2049 | 595194.68 | 4798128.96 | 150.5 | 63 | 76% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2050 | 595190.31 | 4798137.96 | 4.3 | 167 | 201% | 56 | 234% | 0.97 | 215% | 4.8E-04 | 4848% | 1.7E-03 | 3367% | 10.27 | 117% |
| 2058 | 595190.31 | 4798137.96 | 38.7 | 105 | 127% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2046% | 8.81 | 100% |
| 2060 | 595190.31 | 4798137.96 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2022% | 8.77 | 100% |
| 2062 | 595190.31 | 4798137.96 | 55.9 | 91 | 109% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2010% | 8.75 | 99% |
| 2065 | 595190.31 | 4798137.96 | 68.8 | 86 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1999% | 8.73 | 99% |
| 2066 | 595190.31 | 4798137.96 | 73.1 | 83 | 101% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1995% | 8.73 | 99% |
| 2067 | 595190.31 | 4798137.96 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 1.0E-03 | 1992% | 8.73 | 99% |
| 2069 | 595190.31 | 4798137.96 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1986% | 8.72 | 99% |
| 2074 | 595190.31 | 4798137.96 | 107.5 | 70 | 85% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1974% | 8.71 | 99% |
| 2079 | 595190.31 | 4798137.96 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 2084 | 595190.31 | 4798137.96 | 150.5 | 63 | 76% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2085 | 595185.95 | 4798146.96 | 4.3 | 167 | 201% | 57 | 236% | 0.97 | 216% | 4.9E-04 | 4851% | 1.7E-03 | 3373% | 10.30 | 117% |
| 2093 | 595185.95 | 4798146.96 | 38.7 | 105 | 127% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2048% | 8.81 | 100% |
| 2095 | 595185.95 | 4798146.96 | 47.3 | 96 | 116% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2023% | 8.77 | 100% |
| 2097 | 595185.95 | 4798146.96 | 55.9 | 91 | 110% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2011% | 8.75 | 99% |
| 2100 | 595185.95 | 4798146.96 | 68.8 | 85 | 103% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1999% | 8.73 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2101 | 595185.95 | 4798146.96 | 73.1 | 83 | 100% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1995% | 8.73 | 99% |
| 2102 | 595185.95 | 4798146.96 | 77.4 | 81 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 1.0E-03 | 1992% | 8.73 | 99% |
| 2104 | 595185.95 | 4798146.96 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3224% | 9.9E-04 | 1986% | 8.72 | 99% |
| 2109 | 595185.95 | 4798146.96 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1974% | 8.71 | 99% |
| 2114 | 595185.95 | 4798146.96 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1965% | 8.71 | 99% |
| 2119 | 595185.95 | 4798146.96 | 150.5 | 63 | 76% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2120 | 595189.70 | 4798154.42 | 4.3 | 165 | 199% | 55 | 229% | 0.97 | 215% | 4.7E-04 | 4724% | 1.6E-03 | 3282% | 10.20 | 116% |
| 2128 | 595189.70 | 4798154.42 | 38.7 | 104 | 125% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3325% | 1.0E-03 | 2043% | 8.81 | 100% |
| 2130 | 595189.70 | 4798154.42 | 47.3 | 95 | 114% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3279% | 1.0E-03 | 2020% | 8.77 | 100% |
| 2132 | 595189.70 | 4798154.42 | 55.9 | 89 | 107% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3257% | 1.0E-03 | 2007% | 8.75 | 99% |
| 2135 | 595189.70 | 4798154.42 | 68.8 | 84 | 101% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1995% | 8.73 | 99% |
| 2136 | 595189.70 | 4798154.42 | 73.1 | 82 | 98% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 1.0E-03 | 1992% | 8.73 | 99% |
| 2137 | 595189.70 | 4798154.42 | 77.4 | 80 | 97% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1989% | 8.73 | 99% |
| 2139 | 595189.70 | 4798154.42 | 86 | 77 | 93% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1984% | 8.72 | 99% |
| 2144 | 595189.70 | 4798154.42 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1973% | 8.71 | 99% |
| 2149 | 595189.70 | 4798154.42 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1964% | 8.71 | 99% |
| 2154 | 595189.70 | 4798154.42 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2155 | 595196.62 | 4798160.27 | 4.3 | 162 | 196% | 53 | 221% | 0.96 | 214% | 4.6E-04 | 4583% | 1.6E-03 | 3180% | 10.08 | 115% |
| 2163 | 595196.62 | 4798160.27 | 38.7 | 101 | 122% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2039% | 8.81 | 100% |
| 2165 | 595196.62 | 4798160.27 | 47.3 | 93 | 112% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2016% | 8.77 | 100% |
| 2167 | 595196.62 | 4798160.27 | 55.9 | 87 | 105% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2003% | 8.75 | 99% |
| 2170 | 595196.62 | 4798160.27 | 68.8 | 82 | 99% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1991% | 8.73 | 99% |
| 2171 | 595196.62 | 4798160.27 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1988% | 8.73 | 99% |
| 2172 | 595196.62 | 4798160.27 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3230% | 9.9E-04 | 1986% | 8.73 | 99% |
| 2174 | 595196.62 | 4798160.27 | 86 | 75 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1981% | 8.72 | 99% |
| 2179 | 595196.62 | 4798160.27 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 2184 | 595196.62 | 4798160.27 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 2189 | 595196.62 | 4798160.27 | 150.5 | 62 | 74% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1957% | 8.71 | 99% |
| 2190 | 595204.49 | 4798156.72 | 4.3 | 161 | 194% | 51 | 213% | 0.96 | 212% | 4.5E-04 | 4504% | 1.6E-03 | 3120% | 9.99 | 114% |
| 2198 | 595204.49 | 4798156.72 | 38.7 | 100 | 121% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2038% | 8.81 | 100% |
| 2200 | 595204.49 | 4798156.72 | 47.3 | 92 | 111% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2014% | 8.77 | 100% |
| 2202 | 595204.49 | 4798156.72 | 55.9 | 86 | 103% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 2205 | 595204.49 | 4798156.72 | 68.8 | 81 | 98% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1990% | 8.73 | 99% |
| 2206 | 595204.49 | 4798156.72 | 73.1 | 79 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1987% | 8.73 | 99% |
| 2207 | 595204.49 | 4798156.72 | 77.4 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 2209 | 595204.49 | 4798156.72 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1980% | 8.72 | 99% |
| 2214 | 595204.49 | 4798156.72 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1970% | 8.71 | 99% |
| 2219 | 595204.49 | 4798156.72 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1962% | 8.71 | 99% |
| 2224 | 595204.49 | 4798156.72 | 150.5 | 61 | 74% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1957% | 8.71 | 99% |
| 2225 | 595212.80 | 4798151.14 | 4.3 | 159 | 192% | 50 | 207% | 0.95 | 211% | 4.4E-04 | 4439% | 1.5E-03 | 3070% | 9.91 | 113% |
| 2233 | 595212.80 | 4798151.14 | 38.7 | 98 | 118% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2036% | 8.81 | 100% |
| 2235 | 595212.80 | 4798151.14 | 47.3 | 91 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2013% | 8.77 | 100% |
| 2237 | 595212.80 | 4798151.14 | 55.9 | 85 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 2000% | 8.75 | 99% |
| 2240 | 595212.80 | 4798151.14 | 68.8 | 80 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1989% | 8.73 | 99% |
| 2241 | 595212.80 | 4798151.14 | 73.1 | 79 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1986% | 8.73 | 99% |
| 2242 | 595212.80 | 4798151.14 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1984% | 8.73 | 99% |
| 2244 | 595212.80 | 4798151.14 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 2249 | 595212.80 | 4798151.14 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1970% | 8.71 | 99% |
| 2254 | 595212.80 | 4798151.14 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2259 | 595212.80 | 4798151.14 | 150.5 | 62 | 74% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1957% | 8.71 | 99% |
| 2260 | 595221.10 | 4798145.57 | 4.3 | 158 | 190% | 48 | 202% | 0.95 | 210% | 4.4E-04 | 4380% | 1.5E-03 | 3024% | 9.84 | 112% |
| 2268 | 595221.10 | 4798145.57 | 38.7 | 96 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3322% | 1.0E-03 | 2034% | 8.81 | 100% |
| 2270 | 595221.10 | 4798145.57 | 47.3 | 90 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2013% | 8.77 | 100% |
| 2272 | 595221.10 | 4798145.57 | 55.9 | 85 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 2275 | 595221.10 | 4798145.57 | 68.8 | 79 | 95% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1987% | 8.73 | 99% |
| 2276 | 595221.10 | 4798145.57 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1985% | 8.73 | 99% |
| 2277 | 595221.10 | 4798145.57 | 77.4 | 77 | 92% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1983% | 8.73 | 99% |
| 2279 | 595221.10 | 4798145.57 | 86 | 74 | 89% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 2284 | 595221.10 | 4798145.57 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.8E-04 | 1970% | 8.71 | 99% |
| 2289 | 595221.10 | 4798145.57 | 129 | 65 | 78% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 2294 | 595221.10 | 4798145.57 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2295 | 595222.34 | 4798138.62 | 4.3 | 158 | 191% | 49 | 202% | 0.94 | 210% | 4.4E-04 | 4400% | 1.5E-03 | 3038% | 9.85 | 112% |
| 2303 | 595222.34 | 4798138.62 | 38.7 | 97 | 116% | 24 | 101% | 0.89 | 197% | 3.3E-04 | 3323% | 1.0E-03 | 2034% | 8.81 | 100% |
| 2305 | 595222.34 | 4798138.62 | 47.3 | 91 | 109% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3276% | 1.0E-03 | 2013% | 8.77 | 100% |
| 2307 | 595222.34 | 4798138.62 | 55.9 | 85 | 102% | 22 | 94% | 0.88 | 196% | 3.3E-04 | 3255% | 1.0E-03 | 1999% | 8.75 | 99% |
| 2310 | 595222.34 | 4798138.62 | 68.8 | 79 | 96% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 9.9E-04 | 1988% | 8.73 | 99% |
| 2311 | 595222.34 | 4798138.62 | 73.1 | 78 | 94% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1986% | 8.73 | 99% |
| 2312 | 595222.34 | 4798138.62 | 77.4 | 77 | 93% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1983% | 8.73 | 99% |
| 2314 | 595222.34 | 4798138.62 | 86 | 75 | 90% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1979% | 8.72 | 99% |
| 2319 | 595222.34 | 4798138.62 | 107.5 | 69 | 83% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1970% | 8.71 | 99% |
| 2324 | 595222.34 | 4798138.62 | 129 | 65 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 2329 | 595222.34 | 4798138.62 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2330 | 595218.35 | 4798132.75 | 4.3 | 159 | 192% | 50 | 207% | 0.95 | 211% | 4.5E-04 | 4472% | 1.5E-03 | 3092% | 9.91 | 113% |
| 2338 | 595218.35 | 4798132.75 | 38.7 | 99 | 119% | 24 | 102% | 0.89 | 197% | 3.3E-04 | 3324% | 1.0E-03 | 2036% | 8.81 | 100% |
| 2340 | 595218.35 | 4798132.75 | 47.3 | 92 | 110% | 23 | 96% | 0.88 | 196% | 3.3E-04 | 3277% | 1.0E-03 | 2014% | 8.77 | 100% |
| 2342 | 595218.35 | 4798132.75 | 55.9 | 86 | 103% | 23 | 94% | 0.88 | 196% | 3.3E-04 | 3256% | 1.0E-03 | 2001% | 8.75 | 99% |
| 2345 | 595218.35 | 4798132.75 | 68.8 | 80 | 97% | 22 | 92% | 0.88 | 196% | 3.2E-04 | 3238% | 1.0E-03 | 1990% | 8.74 | 99% |
| 2346 | 595218.35 | 4798132.75 | 73.1 | 80 | 96% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3234% | 9.9E-04 | 1988% | 8.73 | 99% |
| 2347 | 595218.35 | 4798132.75 | 77.4 | 78 | 95% | 22 | 91% | 0.88 | 196% | 3.2E-04 | 3231% | 9.9E-04 | 1985% | 8.73 | 99% |
| 2349 | 595218.35 | 4798132.75 | 86 | 76 | 91% | 22 | 90% | 0.88 | 196% | 3.2E-04 | 3225% | 9.9E-04 | 1980% | 8.72 | 99% |
| 2354 | 595218.35 | 4798132.75 | 107.5 | 70 | 84% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3216% | 9.9E-04 | 1971% | 8.71 | 99% |
| 2359 | 595218.35 | 4798132.75 | 129 | 66 | 79% | 21 | 89% | 0.88 | 196% | 3.2E-04 | 3211% | 9.8E-04 | 1963% | 8.71 | 99% |
| 2364 | 595218.35 | 4798132.75 | 150.5 | 62 | 75% | 21 | 88% | 0.88 | 196% | 3.2E-04 | 3208% | 9.8E-04 | 1958% | 8.71 | 99% |
| 2365 | 595322.40 | 4797975.75 | 4.3 | 152 | 183% | 43 | 180% | 0.92 | 205% | 4.2E-04 | 4203% | 1.4E-03 | 2869% | 9.59 | 109% |
| 2368 | 595320.69 | 4797968.22 | 4.3 | 152 | 184% | 44 | 183% | 0.93 | 206% | 4.2E-04 | 4242% | 1.4E-03 | 2897% | 9.62 | 109% |
| 2371 | 595315.10 | 4797959.93 | 4.3 | 154 | 186% | 45 | 188% | 0.93 | 206% | 4.3E-04 | 4317% | 1.5E-03 | 2953% | 9.68 | 110% |
| 2374 | 595309.15 | 4797952.50 | 4.3 | 156 | 187% | 47 | 194% | 0.93 | 207% | 4.4E-04 | 4403% | 1.5E-03 | 3015% | 9.75 | 111% |
| 2377 | 595299.32 | 4797954.34 | 4.3 | 157 | 189% | 48 | 201% | 0.94 | 208% | 4.5E-04 | 4496% | 1.5E-03 | 3080% | 9.83 | 112% |
| 2380 | 595290.71 | 4797957.82 | 4.3 | 159 | 191% | 49 | 206% | 0.94 | 209% | 4.6E-04 | 4577% | 1.6E-03 | 3136% | 9.90 | 113% |
| 2383 | 595284.68 | 4797961.36 | 4.3 | 160 | 192% | 50 | 210% | 0.94 | 209% | 4.6E-04 | 4633% | 1.6E-03 | 3175% | 9.95 | 113% |
| 2386 | 595276.38 | 4797966.93 | 4.3 | 161 | 194% | 52 | 215% | 0.94 | 210% | 4.7E-04 | 4713% | 1.6E-03 | 3229% | 10.02 | 114% |
| 2389 | 595274.03 | 4797973.66 | 4.3 | 161 | 194% | 51 | 215% | 0.94 | 210% | 4.7E-04 | 4699% | 1.6E-03 | 3220% | 10.01 | 114% |
| 2392 | 595267.69 | 4797979.62 | 4.3 | 162 | 195% | 52 | 218% | 0.95 | 210% | 4.8E-04 | 4753% | 1.6E-03 | 3258% | 10.06 | 114% |
| 2395 | 595259.66 | 4797985.43 | 4.3 | 164 | 197% | 54 | 224% | 0.95 | 211% | 4.8E-04 | 4842% | 1.7E-03 | 3320% | 10.14 | 115% |
| 2398 | 595255.30 | 4797994.43 | 4.3 | 164 | 197% | 54 | 224% | 0.95 | 211% | 4.8E-04 | 4846% | 1.7E-03 | 3325% | 10.14 | 115% |
| 2401 | 595254.41 | 4798002.20 | 4.3 | 163 | 196% | 53 | 222% | 0.95 | 211% | 4.8E-04 | 4800% | 1.6E-03 | 3295% | 10.10 | 115% |
| 2404 | 595255.85 | 4798002.88 | 4.3 | 162 | 196% | 53 | 220% | 0.95 | 211% | 4.8E-04 | 4771% | 1.6E-03 | 3275% | 10.08 | 115% |
| 2407 | 595264.02 | 4798101.99 | 4.3 | 153 | 184% | 44 | 183% | 0.93 | 207% | 4.2E-04 | 4194% | 1.4E-03 | 2873% | 9.62 | 109% |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2410 | 595263.53 | 4798094.70 | 4.3 | 153 | 185% | 44 | 185% | 0.93 | 207% | 4.2E-04 | 4222% | 1.4E-03 | 2894% | 9.64 | 110% |
| 2413 | 595257.92 | 4798086.42 | 4.3 | 155 | 186% | 46 | 190% | 0.93 | 207% | 4.3E-04 | 4297% | 1.5E-03 | 2950% | 9.71 | 110% |
| 2416 | 595252.32 | 4798078.14 | 4.3 | 156 | 188% | 47 | 196% | 0.94 | 208% | 4.4E-04 | 4382% | 1.5E-03 | 3013% | 9.78 | 111% |
| 2419 | 595246.71 | 4798069.86 | 4.3 | 158 | 191% | 49 | 203% | 0.94 | 209% | 4.5E-04 | 4481% | 1.5E-03 | 3084% | 9.86 | 112% |
| 2422 | 595241.11 | 4798061.57 | 4.3 | 160 | 193% | 50 | 210% | 0.94 | 210% | 4.6E-04 | 4597% | 1.6E-03 | 3165% | 9.96 | 113% |
| 2425 | 595233.94 | 4798061.22 | 4.3 | 162 | 195% | 52 | 217% | 0.95 | 211% | 4.7E-04 | 4702% | 1.6E-03 | 3241% | 10.05 | 114% |
| 2428 | 595226.17 | 4798067.24 | 4.3 | 164 | 197% | 54 | 223% | 0.95 | 212% | 4.8E-04 | 4784% | 1.7E-03 | 3301% | 10.12 | 115% |
| 2431 | 595221.82 | 4798076.24 | 4.3 | 164 | 197% | 54 | 224% | 0.95 | 212% | 4.8E-04 | 4789% | 1.7E-03 | 3307% | 10.13 | 115% |
| 2434 | 595217.46 | 4798085.24 | 4.3 | 164 | 198% | 54 | 225% | 0.95 | 212% | 4.8E-04 | 4794% | 1.7E-03 | 3314% | 10.14 | 115% |
| 2437 | 595213.11 | 4798094.25 | 4.3 | 164 | 198% | 54 | 226% | 0.96 | 212% | 4.8E-04 | 4798% | 1.7E-03 | 3319% | 10.15 | 115% |
| 2440 | 595208.76 | 4798103.25 | 4.3 | 165 | 199% | 54 | 227% | 0.96 | 213% | 4.8E-04 | 4802% | 1.7E-03 | 3325% | 10.17 | 116% |
| 2443 | 595204.41 | 4798112.25 | 4.3 | 165 | 199% | 55 | 228% | 0.96 | 213% | 4.8E-04 | 4806% | 1.7E-03 | 3330% | 10.18 | 116% |
| 2446 | 595200.06 | 4798121.26 | 4.3 | 165 | 199% | 55 | 229% | 0.96 | 214% | 4.8E-04 | 4809% | 1.7E-03 | 3335% | 10.20 | 116% |
| 2449 | 595199.74 | 4798121.91 | 4.3 | 165 | 199% | 55 | 229% | 0.96 | 214% | 4.8E-04 | 4810% | 1.7E-03 | 3336% | 10.20 | 116% |