Appendix C:
Air Quality, GHG Emissions, and Energy Supporting Information

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FIRSTCARBON SOLUTIONS™

Memo

Date: August 22, 2019

To: Troy Fujimoto, Acting City Planner

From: Phil Ault, FCS Noise and Air Quality Scientist

Subject: Oak Park Properties Specific Plan Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

In support of the Oak Park Properties Specific Plan Draft EIR, FirstCarbon Solutions (FCS) air quality scientists used the California Emissions Estimator Model and the American Meteorological Society/Environmental Protection Agency Regulatory Model to model emissions for construction and operation of the Civic Project and Residential Project, assuming that construction and operation of both the Civic Project and the Residential Project would occur simultaneously. This analysis included a construction health risk assessment as well as a cumulative health risk screening.

Sincerely,

Phil Ault, Noise and Air Quality Scientist
FirstCarbon Solutions
7265 N. First St., Suite 101
Fresno, CA 93720

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Project Construction Assumptions, CalEEMod Output, Construction Health Risk Assessment Calculations, Cumulative Health Risk Screening Tools, and AERMOD Modeling Output

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Construction Assumptions

CalEEMod Land Usage (All Project Components)

Land Uses	Size	Metric	Lot Acreage	Square Feet
Library	25	1000sqft	0.57	25,000
Other Asphalt Surfaces	0.56	Acre	0.56	24,394
Other Asphalt Surfaces	1.26	Acre	1.26	54,886
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160
Other Non-Asphalt Surfaces	40	1000sqft	0.92	40,000
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,841
Parking Lot	0.15	Acre	0.15	6,534
Parking Lot	130	Space	1.17	52,000
Parking Lot	30	Space	0.39	17,000
City Park	0.33	Acre	0.33	14,952
City Park	4.53	Acre	4.53	197,327
Apartments Low Rise	7	Dwelling Unit	0.18	7,000
Single Family Housing	34	Dwelling Unit	4.29	106,654

Demolition Phase of Construction

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Demolition	Demolition	9/2/2019	9/24/2019	6	20

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
Demolition	Excavators	3	8	158	0.38
Demolition	Rubber Tired Dozers	2	8	247	0.40

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Demolition	84	0	1,478	10.8	7.3	20

Oak Park/Monticello – Phase I Construction

Construction Phase

Site Preparation	Site Preparation	9/25/2019	2/12/2020	6	121
Paving	Paving	2/13/2020	2/19/2020	6	6
Grading	Grading	2/20/2020	5/31/2020	6	87

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Grading	Excavators	2	8	158	0.38
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.40
Grading	Scrapers	2	8	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Paving	84	6	0	10.8	7.3	20
Site Preparation	84	6	1,408	10.8	7.3	20
Grading	84	6	0	10.8	7.3	20

Oak Park/Monticello – Phase II Construction

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Paving	Paving	6/1/2020	6/23/2020	6	20
Building Construction	Building Construction	6/24/2020	4/14/2021	6	253
Architectural Coating	Architectural Coating	4/15/2021	5/7/2021	6	20

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.20
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Building Construction	84	49	6	10.8	7.3	20
Paving	84	6	0	10.8	7.3	20
Architectural Coating	84	6	0	10.8	7.3	20

Oak Park/Monticello – Phase III Construction

Construction Phase

Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation	Site Preparation	5/8/2021	5/13/2021	6	5
Building Construction	Building Construction	5/14/2021	6/17/2021	6	30
Architectural Coating	Architectural Coating	6/18/2021	6/29/2021	6	10
Paving	Paving	6/30/2021	7/31/2021	6	28

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37
Building Construction	Cranes	1	7	231	0.29
Building Construction	Forklifts	3	8	89	0.20
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37
Building Construction	Welders	1	8	46	0.45
Paving	Pavers	2	8	130	0.42
Paving	Paving Equipment	2	8	132	0.36
Paving	Rollers	2	8	80	0.38
Architectural Coating	Air Compressors	1	6	78	0.48

Trips and VMT

Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Site Preparation	84	6	0	10.8	7.3	20
Building Construction	84	6	0	10.8	7.3	20
Paving	84	6	0	10.8	7.3	20
Architectural Coating	84	6	0	10.8	7.3	20

Oak Park Project—Additional Construction Assumptions

Estimation of Demolition Debris

Buildings

Debris Generation for Buildings (cy)

Approximate Size	Area (sq ft)	~H (ft)	Stories	Cubic Feet	/27	*0.33	Cubic Yards	
Library	37364	10	2	747280	27677.04	9133.422	9,133	
Admin Offices	42093	10	2	841860	31180	10289.4	10,289	
Total Building	79,457						19,423	cy

Removal of Impervious and Pervious Surface

Impervious

Approximate Size	259,001	sq-feet
Thickness	4	inches
Volume	86,334	cu-ft
Volume	3,198	cy

Pervious

Approximate Size	72,597	sq-feet
Thickness	4	inches
Volume	24,199	cu-ft
Volume	896	cy

Conversion Weight of Impervious:	2,700	lbs/cy
Conversion Weight of Pervious:	2,050	lbs/cy
Weight of Impervious:	4316.6833	tons of debris
Weight of Pervious:	918.66574	tons of debris

Conversion of Tons of Debris to Cubic Yards

Conversion Factor	1 cy = 0.5 tons	
Impervious	8633.366667	cy
Pervious	1837.331481	cy

Total

Removal of surfaces	10471	cy
Total Building	19,423	cy
Total	**29,894**	**cy**
Removal of surfaces	5235	tons of debris
Total Building	9,711	tons of debris
Total	**14,947**	**tons of debris**

Notes: cy = cubic yards; ft= feet; ~ = approximate; lbs = pounds; sq-feet = square feet; cu-ft = cubic fee

Sources of factors:

Federal Emergency Management Agency (FEMA). 2010. Debris Estimating Field Guide. September. Website: https://www.fema.gov/pdf/government/grant/pa/fema_329_debris_estimating.pdf. Accessed February 2019.

DownEaster. 2015. Material Weight – Pounds per Cubic Yard. June 9. Website: https://downeastermfg.com/wp-content/uploads/2015/.../Cubic_Yardage_Chart-D.pdf. Accessed February 2019.

Oak Park/Monticello – Demolition Phase of Construction

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - demolition phase of construction
Construction would start in September 2019
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Demolition
Construction anticipated to begin as early as September 2019
Construction days per week: 6

Trips and VMT - 84 daily construction worker trips per day based on project description

Demolition - Demolition of existing buildings and removal of surfaces. Approximately 14,947 tons of debris to be removed.

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	1.19	0.00
tblFireplaces	NumberWood	14.62	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00

tblLandUse	Population	97.00	86.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0449	0.5902	0.2863	1.0400e-003	0.1791	0.0189	0.1980	0.0294	0.0176	0.0470	0.0000	97.2621	97.2621	0.0124	0.0000	97.5722
Maximum	**0.0449**	**0.5902**	**0.2863**	**1.0400e-003**	**0.1791**	**0.0189**	**0.1980**	**0.0294**	**0.0176**	**0.0470**	**0.0000**	**97.2621**	**97.2621**	**0.0124**	**0.0000**	**97.5722**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0449	0.5902	0.2863	1.0400e-003	0.0912	0.0189	0.1101	0.0161	0.0176	0.0337	0.0000	97.2621	97.2621	0.0124	0.0000	97.5722
Maximum	**0.0449**	**0.5902**	**0.2863**	**1.0400e-003**	**0.0912**	**0.0189**	**0.1101**	**0.0161**	**0.0176**	**0.0337**	**0.0000**	**97.2621**	**97.2621**	**0.0124**	**0.0000**	**97.5722**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.11**	**0.00**	**44.42**	**45.26**	**0.00**	**28.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
1	**9-2-2019**	**9-30-2019**	0.6214	0.6214
		Highest	0.6214	0.6214

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/2/2019	9/24/2019	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	84.00	0.00	1,478.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1599	0.0000	0.1599	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
Total	**0.0351**	**0.3578**	**0.2206**	**3.9000e-004**	**0.1599**	**0.0180**	**0.1779**	**0.0242**	**0.0167**	**0.0409**	**0.0000**	**34.6263**	**34.6263**	**9.6300e-003**	**0.0000**	**34.8672**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-003	0.2300	0.0421	5.9000e-004	0.0125	9.1000e-004	0.0134	3.4400e-003	8.7000e-004	4.3100e-003	0.0000	56.5992	56.5992	2.6100e-003	0.0000	56.6643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	2.3100e-003	0.0236	7.0000e-005	6.6600e-003	5.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	6.0366	6.0366	1.6000e-004	0.0000	6.0407
Total	**9.7900e-003**	**0.2324**	**0.0658**	**6.6000e-004**	**0.0192**	**9.6000e-004**	**0.0201**	**5.2100e-003**	**9.1000e-004**	**6.1200e-003**	**0.0000**	**62.6358**	**62.6358**	**2.7700e-003**	**0.0000**	**62.7051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0720	0.0000	0.0720	0.0109	0.0000	0.0109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
Total	**0.0351**	**0.3578**	**0.2206**	**3.9000e-004**	**0.0720**	**0.0180**	**0.0899**	**0.0109**	**0.0167**	**0.0276**	**0.0000**	**34.6263**	**34.6263**	**9.6300e-003**	**0.0000**	**34.8671**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-003	0.2300	0.0421	5.9000e-004	0.0125	9.1000e-004	0.0134	3.4400e-003	8.7000e-004	4.3100e-003	0.0000	56.5992	56.5992	2.6100e-003	0.0000	56.6643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	2.3100e-003	0.0236	7.0000e-005	6.6600e-003	5.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	6.0366	6.0366	1.6000e-004	0.0000	6.0407
Total	**9.7900e-003**	**0.2324**	**0.0658**	**6.6000e-004**	**0.0192**	**9.6000e-004**	**0.0201**	**5.2100e-003**	**9.1000e-004**	**6.1200e-003**	**0.0000**	**62.6358**	**62.6358**	**2.7700e-003**	**0.0000**	**62.7051**

Oak Park/Monticello – Phase I Construction

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	0.00	1000sqft	0.57	0.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	0.00	0
Other Asphalt Surfaces	1.26	Acre	1.26	0.00	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	0.00	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	0.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	0.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	0.00	0
Parking Lot	130.00	Space	1.17	0.00	0
Parking Lot	30.00	Space	0.39	0.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	0.00	Dwelling Unit	0.18	0.00	17
Single Family Housing	0.00	Dwelling Unit	4.29	0.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase I
Fall 2019
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Phase I would not include building construction. Other than installation of new signal foundations and conduits for a new traffic signal at the intersection of Oak Park Boulevard and Monticello Avenue, no other paving would occur during this phase.

Construction Phase - Phase I Construction
Phase I is anticipated to commence in the fall of 2019 and end in the summer of 2020
Construction days per week: 6

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Grading - Approximately 5,500 cubic yards to be exported off-site and approximately 5,760 cubic yards to be imported from off-site; other soil anticipated to be balanced on-site.

Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	30.00	87.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	10.00	121.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	5,500.00
tblGrading	MaterialImported	0.00	5,760.00

tblLandUse	LandUseSquareFeet	24,393.60	0.00
tblLandUse	LandUseSquareFeet	54,885.60	0.00
tblLandUse	LandUseSquareFeet	87,991.20	0.00
tblLandUse	LandUseSquareFeet	2,160.00	0.00
tblLandUse	LandUseSquareFeet	40,000.00	0.00
tblLandUse	LandUseSquareFeet	6,534.00	0.00
tblLandUse	LandUseSquareFeet	52,000.00	0.00
tblLandUse	LandUseSquareFeet	12,000.00	0.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00
tblLandUse	LotAcreage	0.00	0.57
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.18
tblLandUse	LotAcreage	0.00	4.29
tblLandUse	Population	0.00	17.00
tblLandUse	Population	0.00	86.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	84.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblTripsAndVMT	WorkerTripNumber	20.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00

tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00

2.0 Emissions Summary

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/25/2019	2/12/2020	6	121	Approximately 20 of material hauling
2	Paving	Paving	2/13/2020	2/19/2020	6	6	
3	Grading	Grading	2/20/2020	5/31/2020	6	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 217.5

Acres of Paving: 6.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	84.00	6.00	1,408.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7594	0.0000	0.7594	0.4172	0.0000	0.4172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1821	1.9141	0.9267	1.6000e-003		0.1004	0.1004		0.0924	0.0924	0.0000	143.5085	143.5085	0.0454	0.0000	144.6436
Total	**0.1821**	**1.9141**	**0.9267**	**1.6000e-003**	**0.7594**	**0.1004**	**0.8598**	**0.4172**	**0.0924**	**0.5096**	**0.0000**	**143.5085**	**143.5085**	**0.0454**	**0.0000**	**144.6436**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4300e-003	0.1521	0.0279	3.9000e-004	0.0110	6.0000e-004	0.0116	2.9500e-003	5.7000e-004	3.5200e-003	0.0000	37.4311	37.4311	1.7200e-003	0.0000	37.4742
Vendor	1.2500e-003	0.0321	8.3600e-003	7.0000e-005	1.6600e-003	2.4000e-004	1.8900e-003	4.8000e-004	2.3000e-004	7.0000e-004	0.0000	6.6115	6.6115	3.5000e-004	0.0000	6.6203
Worker	0.0130	9.7100e-003	0.0992	2.8000e-004	0.0280	1.9000e-004	0.0282	7.4400e-003	1.8000e-004	7.6200e-003	0.0000	25.3538	25.3538	6.9000e-004	0.0000	25.3711
Total	**0.0187**	**0.1939**	**0.1354**	**7.4000e-004**	**0.0407**	**1.0300e-003**	**0.0417**	**0.0109**	**9.8000e-004**	**0.0118**	**0.0000**	**69.3963**	**69.3963**	**2.7600e-003**	**0.0000**	**69.4656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3417	0.0000	0.3417	0.1877	0.0000	0.1877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1821	1.9141	0.9267	1.6000e-003		0.1004	0.1004		0.0924	0.0924	0.0000	143.5083	143.5083	0.0454	0.0000	144.6434
Total	**0.1821**	**1.9141**	**0.9267**	**1.6000e-003**	**0.3417**	**0.1004**	**0.4421**	**0.1877**	**0.0924**	**0.2801**	**0.0000**	**143.5083**	**143.5083**	**0.0454**	**0.0000**	**144.6434**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4300e-003	0.1521	0.0279	3.9000e-004	0.0110	6.0000e-004	0.0116	2.9500e-003	5.7000e-004	3.5200e-003	0.0000	37.4311	37.4311	1.7200e-003	0.0000	37.4742
Vendor	1.2500e-003	0.0321	8.3600e-003	7.0000e-005	1.6600e-003	2.4000e-004	1.8900e-003	4.8000e-004	2.3000e-004	7.0000e-004	0.0000	6.6115	6.6115	3.5000e-004	0.0000	6.6203
Worker	0.0130	9.7100e-003	0.0992	2.8000e-004	0.0280	1.9000e-004	0.0282	7.4400e-003	1.8000e-004	7.6200e-003	0.0000	25.3538	25.3538	6.9000e-004	0.0000	25.3711
Total	**0.0187**	**0.1939**	**0.1354**	**7.4000e-004**	**0.0407**	**1.0300e-003**	**0.0417**	**0.0109**	**9.8000e-004**	**0.0118**	**0.0000**	**69.3963**	**69.3963**	**2.7600e-003**	**0.0000**	**69.4656**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3349	0.0000	0.3349	0.1838	0.0000	0.1838	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0754	0.7847	0.3980	7.0000e-004		0.0407	0.0407		0.0374	0.0374	0.0000	61.8468	61.8468	0.0200	0.0000	62.3468
Total	**0.0754**	**0.7847**	**0.3980**	**7.0000e-004**	**0.3349**	**0.0407**	**0.3755**	**0.1838**	**0.0374**	**0.2212**	**0.0000**	**61.8468**	**61.8468**	**0.0200**	**0.0000**	**62.3468**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7800e-003	0.0625	0.0118	1.7000e-004	9.8500e-003	2.1000e-004	0.0101	2.5300e-003	2.0000e-004	2.7200e-003	0.0000	16.3237	16.3237	7.3000e-004	0.0000	16.3418
Vendor	4.5000e-004	0.0127	3.2700e-003	3.0000e-005	7.3000e-004	7.0000e-005	8.0000e-004	2.1000e-004	6.0000e-005	2.7000e-004	0.0000	2.8955	2.8955	1.4000e-004	0.0000	2.8990
Worker	5.2100e-003	3.7700e-003	0.0390	1.2000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3500e-003	0.0000	10.8126	10.8126	2.7000e-004	0.0000	10.8192
Total	**7.4400e-003**	**0.0790**	**0.0541**	**3.2000e-004**	**0.0229**	**3.6000e-004**	**0.0233**	**6.0200e-003**	**3.4000e-004**	**6.3400e-003**	**0.0000**	**30.0317**	**30.0317**	**1.1400e-003**	**0.0000**	**30.0601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1507	0.0000	0.1507	0.0827	0.0000	0.0827	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0754	0.7847	0.3980	7.0000e-004		0.0407	0.0407		0.0374	0.0374	0.0000	61.8467	61.8467	0.0200	0.0000	62.3467
Total	**0.0754**	**0.7847**	**0.3980**	**7.0000e-004**	**0.1507**	**0.0407**	**0.1913**	**0.0827**	**0.0374**	**0.1201**	**0.0000**	**61.8467**	**61.8467**	**0.0200**	**0.0000**	**62.3467**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7800e-003	0.0625	0.0118	1.7000e-004	9.8500e-003	2.1000e-004	0.0101	2.5300e-003	2.0000e-004	2.7200e-003	0.0000	16.3237	16.3237	7.3000e-004	0.0000	16.3418
Vendor	4.5000e-004	0.0127	3.2700e-003	3.0000e-005	7.3000e-004	7.0000e-005	8.0000e-004	2.1000e-004	6.0000e-005	2.7000e-004	0.0000	2.8955	2.8955	1.4000e-004	0.0000	2.8990
Worker	5.2100e-003	3.7700e-003	0.0390	1.2000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3500e-003	0.0000	10.8126	10.8126	2.7000e-004	0.0000	10.8192
Total	**7.4400e-003**	**0.0790**	**0.0541**	**3.2000e-004**	**0.0229**	**3.6000e-004**	**0.0233**	**6.0200e-003**	**3.4000e-004**	**6.3400e-003**	**0.0000**	**30.0317**	**30.0317**	**1.1400e-003**	**0.0000**	**30.0601**

3.3 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0700e-003	0.0422	0.0440	7.0000e-005		2.2600e-003	2.2600e-003		2.0800e-003	2.0800e-003	0.0000	6.0085	6.0085	1.9400e-003	0.0000	6.0571
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.6900e-003**	**0.0422**	**0.0440**	**7.0000e-005**		**2.2600e-003**	**2.2600e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**6.0085**	**6.0085**	**1.9400e-003**	**0.0000**	**6.0571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0600e-003	5.3000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
Worker	8.5000e-004	6.1000e-004	6.3300e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7534	1.7534	4.0000e-005	0.0000	1.7545
Total	**9.2000e-004**	**2.6700e-003**	**6.8600e-003**	**2.0000e-005**	**2.1200e-003**	**2.0000e-005**	**2.1400e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.2229**	**2.2229**	**6.0000e-005**	**0.0000**	**2.2246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0700e-003	0.0422	0.0440	7.0000e-005		2.2600e-003	2.2600e-003		2.0800e-003	2.0800e-003	0.0000	6.0085	6.0085	1.9400e-003	0.0000	6.0570
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.6900e-003**	**0.0422**	**0.0440**	**7.0000e-005**		**2.2600e-003**	**2.2600e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**6.0085**	**6.0085**	**1.9400e-003**	**0.0000**	**6.0570**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0600e-003	5.3000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
Worker	8.5000e-004	6.1000e-004	6.3300e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7534	1.7534	4.0000e-005	0.0000	1.7545
Total	**9.2000e-004**	**2.6700e-003**	**6.8600e-003**	**2.0000e-005**	**2.1200e-003**	**2.0000e-005**	**2.1400e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.2229**	**2.2229**	**6.0000e-005**	**0.0000**	**2.2246**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3773	0.0000	0.3773	0.1565	0.0000	0.1565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1936	2.1836	1.3902	2.7000e-003		0.0946	0.0946		0.0870	0.0870	0.0000	237.0067	237.0067	0.0767	0.0000	238.9230
Total	**0.1936**	**2.1836**	**1.3902**	**2.7000e-003**	**0.3773**	**0.0946**	**0.4719**	**0.1565**	**0.0870**	**0.2435**	**0.0000**	**237.0067**	**237.0067**	**0.0767**	**0.0000**	**238.9230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0299	7.6900e-003	7.0000e-005	1.7200e-003	1.5000e-004	1.8700e-003	5.0000e-004	1.5000e-004	6.4000e-004	0.0000	6.8083	6.8083	3.3000e-004	0.0000	6.8166
Worker	0.0123	8.8700e-003	0.0918	2.8000e-004	0.0290	1.9000e-004	0.0292	7.7100e-003	1.8000e-004	7.8900e-003	0.0000	25.4242	25.4242	6.2000e-004	0.0000	25.4398
Total	**0.0133**	**0.0388**	**0.0995**	**3.5000e-004**	**0.0307**	**3.4000e-004**	**0.0310**	**8.2100e-003**	**3.3000e-004**	**8.5300e-003**	**0.0000**	**32.2325**	**32.2325**	**9.5000e-004**	**0.0000**	**32.2564**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1698	0.0000	0.1698	0.0704	0.0000	0.0704	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1936	2.1836	1.3902	2.7000e-003		0.0946	0.0946		0.0870	0.0870	0.0000	237.0064	237.0064	0.0767	0.0000	238.9227
Total	**0.1936**	**2.1836**	**1.3902**	**2.7000e-003**	**0.1698**	**0.0946**	**0.2643**	**0.0704**	**0.0870**	**0.1574**	**0.0000**	**237.0064**	**237.0064**	**0.0767**	**0.0000**	**238.9227**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0299	7.6900e-003	7.0000e-005	1.7200e-003	1.5000e-004	1.8700e-003	5.0000e-004	1.5000e-004	6.4000e-004	0.0000	6.8083	6.8083	3.3000e-004	0.0000	6.8166
Worker	0.0123	8.8700e-003	0.0918	2.8000e-004	0.0290	1.9000e-004	0.0292	7.7100e-003	1.8000e-004	7.8900e-003	0.0000	25.4242	25.4242	6.2000e-004	0.0000	25.4398
Total	**0.0133**	**0.0388**	**0.0995**	**3.5000e-004**	**0.0307**	**3.4000e-004**	**0.0310**	**8.2100e-003**	**3.3000e-004**	**8.5300e-003**	**0.0000**	**32.2325**	**32.2325**	**9.5000e-004**	**0.0000**	**32.2564**

Oak Park/Monticello – Phase II Construction

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	0.00	1000sqft	0.00	0.00	0
Other Non-Asphalt Surfaces	0.00	1000sqft	0.00	0.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	0.00	Space	0.00	0.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	0.00	Acre	0.00	0.00	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase II Construction
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Phase II Construction
Proposed library, residential, and road improvements. Proposed park area expected to be used as staging area.

Construction Phase - Phase II Construction
Summer of 2020 to Spring of 2021 (6/1/2020-5/7/2021)
Construction days per week: 6
Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips for paving and architectural coating. Default vendor trips retained for building construction phase.

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	253.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	1.19	0.00
tblFireplaces	NumberWood	14.62	0.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65

tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblTripsAndVMT	WorkerTripNumber	132.00	84.00
tblTripsAndVMT	WorkerTripNumber	26.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2338	2.2010	1.8426	4.1400e-003	0.0882	0.1019	0.1901	0.0241	0.0957	0.1198	0.0000	370.2422	370.2422	0.0594	0.0000	371.7261
2021	1.0875	1.0328	0.9195	2.1700e-003	0.0511	0.0444	0.0954	0.0139	0.0418	0.0557	0.0000	194.3529	194.3529	0.0284	0.0000	195.0637
Maximum	**1.0875**	**2.2010**	**1.8426**	**4.1400e-003**	**0.0882**	**0.1019**	**0.1901**	**0.0241**	**0.0957**	**0.1198**	**0.0000**	**370.2422**	**370.2422**	**0.0594**	**0.0000**	**371.7261**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2338	2.2010	1.8426	4.1400e-003	0.0882	0.1019	0.1901	0.0241	0.0957	0.1198	0.0000	370.2420	370.2420	0.0594	0.0000	371.7258
2021	1.0875	1.0328	0.9195	2.1700e-003	0.0511	0.0444	0.0954	0.0139	0.0418	0.0557	0.0000	194.3528	194.3528	0.0284	0.0000	195.0636
Maximum	**1.0875**	**2.2010**	**1.8426**	**4.1400e-003**	**0.0882**	**0.1019**	**0.1901**	**0.0241**	**0.0957**	**0.1198**	**0.0000**	**370.2420**	**370.2420**	**0.0594**	**0.0000**	**371.7258**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
1	**6-1-2020**	**8-31-2020**	0.9824	0.9824
2	**9-1-2020**	**11-30-2020**	1.0774	1.0774
3	**12-1-2020**	**2-28-2021**	1.0009	1.0009
4	**3-1-2021**	**5-31-2021**	1.4755	1.4755
		Highest	1.4755	1.4755

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2020	6/23/2020	6	20	
2	Building Construction	Building Construction	6/24/2020	4/14/2021	6	253	
3	Architectural Coating	Architectural Coating	4/15/2021	5/7/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.34

Residential Indoor: 230,149; Residential Outdoor: 76,716; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	84.00	49.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0177**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	6.8800e-003	1.7700e-003	2.0000e-005	3.9000e-004	4.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5670
Worker	2.8200e-003	2.0400e-003	0.0211	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.8447	5.8447	1.4000e-004	0.0000	5.8482
Total	**3.0600e-003**	**8.9200e-003**	**0.0229**	**8.0000e-005**	**7.0500e-003**	**8.0000e-005**	**7.1400e-003**	**1.8800e-003**	**7.0000e-005**	**1.9600e-003**	**0.0000**	**7.4098**	**7.4098**	**2.2000e-004**	**0.0000**	**7.4153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0177**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1901**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	6.8800e-003	1.7700e-003	2.0000e-005	3.9000e-004	4.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5670
Worker	2.8200e-003	2.0400e-003	0.0211	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.8447	5.8447	1.4000e-004	0.0000	5.8482
Total	**3.0600e-003**	**8.9200e-003**	**0.0229**	**8.0000e-005**	**7.0500e-003**	**8.0000e-005**	**7.1400e-003**	**1.8800e-003**	**7.0000e-005**	**1.9600e-003**	**0.0000**	**7.4098**	**7.4098**	**2.2000e-004**	**0.0000**	**7.4153**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1738	1.5733	1.3816	2.2100e-003		0.0916	0.0916		0.0861	0.0861	0.0000	189.9202	189.9202	0.0463	0.0000	191.0785
Total	**0.1738**	**1.5733**	**1.3816**	**2.2100e-003**		**0.0916**	**0.0916**		**0.0861**	**0.0861**	**0.0000**	**189.9202**	**189.9202**	**0.0463**	**0.0000**	**191.0785**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1476
Vendor	0.0161	0.4609	0.1185	1.1000e-003	0.0264	2.3600e-003	0.0288	7.6400e-003	2.2500e-003	9.8900e-003	0.0000	104.8105	104.8105	5.1400e-003	0.0000	104.9390
Worker	0.0231	0.0167	0.1730	5.3000e-004	0.0546	3.6000e-004	0.0550	0.0145	3.4000e-004	0.0149	0.0000	47.9261	47.9261	1.1800e-003	0.0000	47.9555
Total	**0.0392**	**0.4782**	**0.2916**	**1.6300e-003**	**0.0811**	**2.7200e-003**	**0.0838**	**0.0222**	**2.5900e-003**	**0.0248**	**0.0000**	**152.8840**	**152.8840**	**6.3300e-003**	**0.0000**	**153.0421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1738	1.5733	1.3816	2.2100e-003		0.0916	0.0916		0.0861	0.0861	0.0000	189.9200	189.9200	0.0463	0.0000	191.0783
Total	**0.1738**	**1.5733**	**1.3816**	**2.2100e-003**		**0.0916**	**0.0916**		**0.0861**	**0.0861**	**0.0000**	**189.9200**	**189.9200**	**0.0463**	**0.0000**	**191.0783**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1476
Vendor	0.0161	0.4609	0.1185	1.1000e-003	0.0264	2.3600e-003	0.0288	7.6400e-003	2.2500e-003	9.8900e-003	0.0000	104.8105	104.8105	5.1400e-003	0.0000	104.9390
Worker	0.0231	0.0167	0.1730	5.3000e-004	0.0546	3.6000e-004	0.0550	0.0145	3.4000e-004	0.0149	0.0000	47.9261	47.9261	1.1800e-003	0.0000	47.9555
Total	**0.0392**	**0.4782**	**0.2916**	**1.6300e-003**	**0.0811**	**2.7200e-003**	**0.0838**	**0.0222**	**2.5900e-003**	**0.0248**	**0.0000**	**152.8840**	**152.8840**	**6.3300e-003**	**0.0000**	**153.0421**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401	0.0000	103.0786	103.0786	0.0249	0.0000	103.7003
Total	**0.0846**	**0.7757**	**0.7376**	**1.2000e-003**		**0.0427**	**0.0427**		**0.0401**	**0.0401**	**0.0000**	**103.0786**	**103.0786**	**0.0249**	**0.0000**	**103.7003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Vendor	7.1300e-003	0.2254	0.0573	5.9000e-004	0.0143	5.1000e-004	0.0149	4.1500e-003	4.8000e-004	4.6300e-003	0.0000	56.3669	56.3669	2.6200e-003	0.0000	56.4323
Worker	0.0116	8.0900e-003	0.0856	2.8000e-004	0.0297	1.9000e-004	0.0298	7.8800e-003	1.8000e-004	8.0600e-003	0.0000	25.0866	25.0866	5.7000e-004	0.0000	25.1009
Total	**0.0187**	**0.2338**	**0.1429**	**8.7000e-004**	**0.0440**	**7.0000e-004**	**0.0447**	**0.0120**	**6.6000e-004**	**0.0127**	**0.0000**	**81.5326**	**81.5326**	**3.1900e-003**	**0.0000**	**81.6123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401	0.0000	103.0785	103.0785	0.0249	0.0000	103.7002
Total	**0.0846**	**0.7757**	**0.7376**	**1.2000e-003**		**0.0427**	**0.0427**		**0.0401**	**0.0401**	**0.0000**	**103.0785**	**103.0785**	**0.0249**	**0.0000**	**103.7002**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Vendor	7.1300e-003	0.2254	0.0573	5.9000e-004	0.0143	5.1000e-004	0.0149	4.1500e-003	4.8000e-004	4.6300e-003	0.0000	56.3669	56.3669	2.6200e-003	0.0000	56.4323
Worker	0.0116	8.0900e-003	0.0856	2.8000e-004	0.0297	1.9000e-004	0.0298	7.8800e-003	1.8000e-004	8.0600e-003	0.0000	25.0866	25.0866	5.7000e-004	0.0000	25.1009
Total	**0.0187**	**0.2338**	**0.1429**	**8.7000e-004**	**0.0440**	**7.0000e-004**	**0.0447**	**0.0120**	**6.6000e-004**	**0.0127**	**0.0000**	**81.5326**	**81.5326**	**3.1900e-003**	**0.0000**	**81.6123**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**0.9813**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2000e-003	1.5800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5510	1.5510	7.0000e-005	0.0000	1.5528
Worker	2.6000e-003	1.8200e-003	0.0192	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.6374	5.6374	1.3000e-004	0.0000	5.6406
Total	**2.8000e-003**	**8.0200e-003**	**0.0208**	**8.0000e-005**	**7.0500e-003**	**5.0000e-005**	**7.1200e-003**	**1.8800e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**7.1885**	**7.1885**	**2.0000e-004**	**0.0000**	**7.1935**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**0.9813**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2000e-003	1.5800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5510	1.5510	7.0000e-005	0.0000	1.5528
Worker	2.6000e-003	1.8200e-003	0.0192	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.6374	5.6374	1.3000e-004	0.0000	5.6406
Total	**2.8000e-003**	**8.0200e-003**	**0.0208**	**8.0000e-005**	**7.0500e-003**	**5.0000e-005**	**7.1200e-003**	**1.8800e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**7.1885**	**7.1885**	**2.0000e-004**	**0.0000**	**7.1935**

Oak Park/Monticello – Phase III Construction

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.00	Acre	0.00	0.00	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	0.00	Acre	0.00	0.00	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.00	Acre	0.00	0.00	0
Parking Lot	0.00	Space	0.00	0.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.00	0.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	0.00	Dwelling Unit	0.00	0.00	0
Single Family Housing	0.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase III Construction
Following Phase II
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard
Land Use - Phase 3

Construction Phase - Phase III Construction
Construction days per week: 6
12-week duration (5/8/2021-7/31/2021)
Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LotAcreage	0.27	0.39
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	52.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00

tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	84.00
tblTripsAndVMT	WorkerTripNumber	134.00	84.00
tblTripsAndVMT	WorkerTripNumber	27.00	84.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0994	0.5805	0.5917	1.1200e-003	0.0709	0.0297	0.1006	0.0317	0.0276	0.0593	0.0000	98.6519	98.6519	0.0210	0.0000	99.1762
Maximum	**0.0994**	**0.5805**	**0.5917**	**1.1200e-003**	**0.0709**	**0.0297**	**0.1006**	**0.0317**	**0.0276**	**0.0593**	**0.0000**	**98.6519**	**98.6519**	**0.0210**	**0.0000**	**99.1762**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0994	0.5805	0.5917	1.1200e-003	0.0461	0.0297	0.0757	0.0181	0.0276	0.0457	0.0000	98.6519	98.6519	0.0210	0.0000	99.1761
Maximum	**0.0994**	**0.5805**	**0.5917**	**1.1200e-003**	**0.0461**	**0.0297**	**0.0757**	**0.0181**	**0.0276**	**0.0457**	**0.0000**	**98.6519**	**98.6519**	**0.0210**	**0.0000**	**99.1761**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**35.03**	**0.00**	**24.70**	**43.05**	**0.00**	**23.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-8-2021**	**8-7-2021**	0.6799	0.6799
		Highest	0.6799	0.6799

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/8/2021	5/13/2021	6	5	
2	Building Construction	Building Construction	5/14/2021	6/17/2021	6	30	
3	Architectural Coating	Architectural Coating	6/18/2021	6/29/2021	6	10	
4	Paving	Paving	6/30/2021	7/31/2021	6	28	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.8

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350; Non-Residential Outdoor: 450; Striped Parking Area: 7,313

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5500e-003	3.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3878	0.3878	2.0000e-005	0.0000	0.3882
Worker	6.5000e-004	4.5000e-004	4.8100e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4094	1.4094	3.0000e-005	0.0000	1.4102
Total	**7.0000e-004**	**2.0000e-003**	**5.2000e-003**	**2.0000e-005**	**1.7700e-003**	**1.0000e-005**	**1.7800e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.7971**	**1.7971**	**5.0000e-005**	**0.0000**	**1.7984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0203	0.0000	0.0203	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0203**	**5.1100e-003**	**0.0254**	**0.0112**	**4.7000e-003**	**0.0159**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5500e-003	3.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3878	0.3878	2.0000e-005	0.0000	0.3882
Worker	6.5000e-004	4.5000e-004	4.8100e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4094	1.4094	3.0000e-005	0.0000	1.4102
Total	**7.0000e-004**	**2.0000e-003**	**5.2000e-003**	**2.0000e-005**	**1.7700e-003**	**1.0000e-005**	**1.7800e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.7971**	**1.7971**	**5.0000e-005**	**0.0000**	**1.7984**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0285	0.2615	0.2486	4.0000e-004		0.0144	0.0144		0.0135	0.0135	0.0000	34.7456	34.7456	8.3800e-003	0.0000	34.9552
Total	**0.0285**	**0.2615**	**0.2486**	**4.0000e-004**		**0.0144**	**0.0144**		**0.0135**	**0.0135**	**0.0000**	**34.7456**	**34.7456**	**8.3800e-003**	**0.0000**	**34.9552**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	9.3000e-003	2.3600e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.1000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.3265	2.3265	1.1000e-004	0.0000	2.3292
Worker	3.9000e-003	2.7300e-003	0.0289	9.0000e-005	9.9900e-003	6.0000e-005	0.0101	2.6600e-003	6.0000e-005	2.7200e-003	0.0000	8.4562	8.4562	1.9000e-004	0.0000	8.4610
Total	**4.1900e-003**	**0.0120**	**0.0312**	**1.1000e-004**	**0.0106**	**8.0000e-005**	**0.0107**	**2.8300e-003**	**8.0000e-005**	**2.9100e-003**	**0.0000**	**10.7827**	**10.7827**	**3.0000e-004**	**0.0000**	**10.7902**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0285	0.2615	0.2486	4.0000e-004		0.0144	0.0144		0.0135	0.0135	0.0000	34.7456	34.7456	8.3800e-003	0.0000	34.9551
Total	**0.0285**	**0.2615**	**0.2486**	**4.0000e-004**		**0.0144**	**0.0144**		**0.0135**	**0.0135**	**0.0000**	**34.7456**	**34.7456**	**8.3800e-003**	**0.0000**	**34.9551**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	9.3000e-003	2.3600e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.1000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.3265	2.3265	1.1000e-004	0.0000	2.3292
Worker	3.9000e-003	2.7300e-003	0.0289	9.0000e-005	9.9900e-003	6.0000e-005	0.0101	2.6600e-003	6.0000e-005	2.7200e-003	0.0000	8.4562	8.4562	1.9000e-004	0.0000	8.4610
Total	**4.1900e-003**	**0.0120**	**0.0312**	**1.1000e-004**	**0.0106**	**8.0000e-005**	**0.0107**	**2.8300e-003**	**8.0000e-005**	**2.9100e-003**	**0.0000**	**10.7827**	**10.7827**	**3.0000e-004**	**0.0000**	**10.7902**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0301					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.0312**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.1000e-003	7.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7755	0.7755	4.0000e-005	0.0000	0.7764
Worker	1.3000e-003	9.1000e-004	9.6200e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.8187	2.8187	6.0000e-005	0.0000	2.8203
Total	**1.4000e-003**	**4.0100e-003**	**0.0104**	**4.0000e-005**	**3.5300e-003**	**3.0000e-005**	**3.5500e-003**	**9.5000e-004**	**3.0000e-005**	**9.7000e-004**	**0.0000**	**3.5942**	**3.5942**	**1.0000e-004**	**0.0000**	**3.5967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0301					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.0312**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.1000e-003	7.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7755	0.7755	4.0000e-005	0.0000	0.7764
Worker	1.3000e-003	9.1000e-004	9.6200e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.8187	2.8187	6.0000e-005	0.0000	2.8203
Total	**1.4000e-003**	**4.0100e-003**	**0.0104**	**4.0000e-005**	**3.5300e-003**	**3.0000e-005**	**3.5500e-003**	**9.5000e-004**	**3.0000e-005**	**9.7000e-004**	**0.0000**	**3.5942**	**3.5942**	**1.0000e-004**	**0.0000**	**3.5967**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1809	0.2052	3.2000e-004		9.4900e-003	9.4900e-003		8.7300e-003	8.7300e-003	0.0000	28.0329	28.0329	9.0700e-003	0.0000	28.2595
Paving	2.1600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.1809**	**0.2052**	**3.2000e-004**		**9.4900e-003**	**9.4900e-003**		**8.7300e-003**	**8.7300e-003**	**0.0000**	**28.0329**	**28.0329**	**9.0700e-003**	**0.0000**	**28.2595**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	8.6800e-003	2.2100e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.7000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.1714	2.1714	1.0000e-004	0.0000	2.1740
Worker	3.6400e-003	2.5500e-003	0.0269	9.0000e-005	9.3300e-003	6.0000e-005	9.3900e-003	2.4800e-003	6.0000e-005	2.5400e-003	0.0000	7.8924	7.8924	1.8000e-004	0.0000	7.8969
Total	**3.9100e-003**	**0.0112**	**0.0291**	**1.1000e-004**	**9.8800e-003**	**8.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.0639**	**10.0639**	**2.8000e-004**	**0.0000**	**10.0709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1809	0.2052	3.2000e-004		9.4900e-003	9.4900e-003		8.7300e-003	8.7300e-003	0.0000	28.0328	28.0328	9.0700e-003	0.0000	28.2595
Paving	2.1600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.1809**	**0.2052**	**3.2000e-004**		**9.4900e-003**	**9.4900e-003**		**8.7300e-003**	**8.7300e-003**	**0.0000**	**28.0328**	**28.0328**	**9.0700e-003**	**0.0000**	**28.2595**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	8.6800e-003	2.2100e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.7000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.1714	2.1714	1.0000e-004	0.0000	2.1740
Worker	3.6400e-003	2.5500e-003	0.0269	9.0000e-005	9.3300e-003	6.0000e-005	9.3900e-003	2.4800e-003	6.0000e-005	2.5400e-003	0.0000	7.8924	7.8924	1.8000e-004	0.0000	7.8969
Total	**3.9100e-003**	**0.0112**	**0.0291**	**1.1000e-004**	**9.8800e-003**	**8.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.0639**	**10.0639**	**2.8000e-004**	**0.0000**	**10.0709**

Demolition Phase of Construction- Mitigated

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - demolition phase of construction - Tier IV Interim
Construction would start in September 2019
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard
Land Use - Summary of all sites consistent with project description

Construction Phase - Demolition
Construction anticipated to begin as early as September 2019
Construction days per week: 6
Trips and VMT - 84 daily construction worker trips per day based on project description

Demolition - Demolition of existing buildings and removal of surfaces. Approximately 14,947 tons of debris to be removed.

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects. Tier IV Interim mitigation for construction equipment >50 HP.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	1.19	0.00
tblFireplaces	NumberWood	14.62	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00

tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0449	0.5902	0.2863	1.0400e-003	0.1791	0.0189	0.1980	0.0294	0.0176	0.0470	0.0000	97.2621	97.2621	0.0124	0.0000	97.5722
Maximum	**0.0449**	**0.5902**	**0.2863**	**1.0400e-003**	**0.1791**	**0.0189**	**0.1980**	**0.0294**	**0.0176**	**0.0470**	**0.0000**	**97.2621**	**97.2621**	**0.0124**	**0.0000**	**97.5722**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0449	0.5902	0.2863	1.0400e-003	0.0912	0.0189	0.1101	0.0161	0.0176	0.0337	0.0000	97.2621	97.2621	0.0124	0.0000	97.5722
Maximum	**0.0449**	**0.5902**	**0.2863**	**1.0400e-003**	**0.0912**	**0.0189**	**0.1101**	**0.0161**	**0.0176**	**0.0337**	**0.0000**	**97.2621**	**97.2621**	**0.0124**	**0.0000**	**97.5722**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.11**	**0.00**	**44.42**	**45.26**	**0.00**	**28.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	**Start Date**	**End Date**	**Maximum Unmitigated ROG + NOX (tons/quarter)**	**Maximum Mitigated ROG + NOX (tons/quarter)**
1	**9-2-2019**	**9-30-2019**	0.6214	0.6214
		Highest	0.6214	0.6214

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/2/2019	9/24/2019	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 6.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	84.00	0.00	1,478.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1599	0.0000	0.1599	0.0242	0.0000	0.0242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
Total	**0.0351**	**0.3578**	**0.2206**	**3.9000e-004**	**0.1599**	**0.0180**	**0.1779**	**0.0242**	**0.0167**	**0.0409**	**0.0000**	**34.6263**	**34.6263**	**9.6300e-003**	**0.0000**	**34.8672**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-003	0.2300	0.0421	5.9000e-004	0.0125	9.1000e-004	0.0134	3.4400e-003	8.7000e-004	4.3100e-003	0.0000	56.5992	56.5992	2.6100e-003	0.0000	56.6643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	2.3100e-003	0.0236	7.0000e-005	6.6600e-003	5.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	6.0366	6.0366	1.6000e-004	0.0000	6.0407
Total	**9.7900e-003**	**0.2324**	**0.0658**	**6.6000e-004**	**0.0192**	**9.6000e-004**	**0.0201**	**5.2100e-003**	**9.1000e-004**	**6.1200e-003**	**0.0000**	**62.6358**	**62.6358**	**2.7700e-003**	**0.0000**	**62.7051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0720	0.0000	0.0720	0.0109	0.0000	0.0109	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
Total	**0.0351**	**0.3578**	**0.2206**	**3.9000e-004**	**0.0720**	**0.0180**	**0.0899**	**0.0109**	**0.0167**	**0.0276**	**0.0000**	**34.6263**	**34.6263**	**9.6300e-003**	**0.0000**	**34.8671**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.7000e-003	0.2300	0.0421	5.9000e-004	0.0125	9.1000e-004	0.0134	3.4400e-003	8.7000e-004	4.3100e-003	0.0000	56.5992	56.5992	2.6100e-003	0.0000	56.6643
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0900e-003	2.3100e-003	0.0236	7.0000e-005	6.6600e-003	5.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	6.0366	6.0366	1.6000e-004	0.0000	6.0407
Total	**9.7900e-003**	**0.2324**	**0.0658**	**6.6000e-004**	**0.0192**	**9.6000e-004**	**0.0201**	**5.2100e-003**	**9.1000e-004**	**6.1200e-003**	**0.0000**	**62.6358**	**62.6358**	**2.7700e-003**	**0.0000**	**62.7051**

Oak Park/Monticello Phase I - Mitigated Construction

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	0.00	1000sqft	0.57	0.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	0.00	0
Other Asphalt Surfaces	1.26	Acre	1.26	0.00	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	0.00	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	0.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	0.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	0.00	0
Parking Lot	130.00	Space	1.17	0.00	0
Parking Lot	30.00	Space	0.39	0.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	0.00	Dwelling Unit	0.18	0.00	17
Single Family Housing	0.00	Dwelling Unit	4.29	0.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase I - Tier IV Interim Mitigated Construction
Fall 2019
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Phase I would not include building construction. Other than installation of new signal foundations and conduits for a new traffic signal at the intersection of Oak Park Boulevard and Monticello Avenue, no other paving would occur during this phase.

Construction Phase - Phase I Construction
Phase I is anticipated to commence in the fall of 2019 and end in the summer of 2020
Construction days per week: 6

Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips

Grading - Approximately 5,500 cubic yards to be exported off-site and approximately 5,760 cubic yards to be imported from off-site; other soil anticipated to be balanced on-site.

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Tier IV Interim mitigation for construction equipment >50 HP
Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	30.00	87.00
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	10.00	121.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	MaterialExported	0.00	5,500.00
tblGrading	MaterialImported	0.00	5,760.00
tblLandUse	LandUseSquareFeet	24,393.60	0.00
tblLandUse	LandUseSquareFeet	54,885.60	0.00
tblLandUse	LandUseSquareFeet	87,991.20	0.00
tblLandUse	LandUseSquareFeet	2,160.00	0.00
tblLandUse	LandUseSquareFeet	40,000.00	0.00
tblLandUse	LandUseSquareFeet	6,534.00	0.00
tblLandUse	LandUseSquareFeet	52,000.00	0.00
tblLandUse	LandUseSquareFeet	12,000.00	0.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00
tblLandUse	LotAcreage	0.00	0.57
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.18
tblLandUse	LotAcreage	0.00	4.29

tblLandUse	Population	0.00	17.00
tblLandUse	Population	0.00	86.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	84.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblTripsAndVMT	WorkerTripNumber	20.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2007	2.1080	1.0620	2.3300e-003	0.8001	0.1014	0.9015	0.4281	0.0933	0.5214	0.0000	212.9048	212.9048	0.0482	0.0000	214.1092
2020	0.2993	3.1310	1.9926	4.1600e-003	0.7679	0.1382	0.9061	0.3551	0.1272	0.4822	0.0000	369.3490	369.3490	0.1008	0.0000	371.8679
Maximum	**0.2993**	**3.1310**	**1.9926**	**4.1600e-003**	**0.8001**	**0.1382**	**0.9061**	**0.4281**	**0.1272**	**0.5214**	**0.0000**	**369.3490**	**369.3490**	**0.1008**	**0.0000**	**371.8679**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.0479	0.7047	1.0997	2.3300e-003	0.3824	3.6300e-003	0.3860	0.1986	3.5800e-003	0.2022	0.0000	212.9047	212.9047	0.0482	0.0000	214.1090
2020	0.0842	1.2139	2.2345	4.1600e-003	0.3762	6.4000e-003	0.3826	0.1679	6.3600e-003	0.1743	0.0000	369.3487	369.3487	0.1008	0.0000	371.8676
Maximum	**0.0842**	**1.2139**	**2.2345**	**4.1600e-003**	**0.3824**	**6.4000e-003**	**0.3860**	**0.1986**	**6.3600e-003**	**0.2022**	**0.0000**	**369.3487**	**369.3487**	**0.1008**	**0.0000**	**371.8676**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**73.59**	**63.38**	**-9.15**	**0.00**	**51.62**	**95.81**	**57.48**	**53.20**	**95.49**	**62.49**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-25-2019**	**12-24-2019**	2.1462	0.7012
2	**12-25-2019**	**3-24-2020**	1.9783	0.7314
3	**3-25-2020**	**6-24-2020**	1.6275	0.6260
		Highest	2.1462	0.7314

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/25/2019	2/12/2020	6	121	Approximately 20 of material hauling
2	Paving	Paving	2/13/2020	2/19/2020	6	6	
3	Grading	Grading	2/20/2020	5/31/2020	6	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 217.5

Acres of Paving: 6.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	84.00	6.00	1,408.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7594	0.0000	0.7594	0.4172	0.0000	0.4172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1821	1.9141	0.9267	1.6000e-003		0.1004	0.1004		0.0924	0.0924	0.0000	143.5085	143.5085	0.0454	0.0000	144.6436
Total	**0.1821**	**1.9141**	**0.9267**	**1.6000e-003**	**0.7594**	**0.1004**	**0.8598**	**0.4172**	**0.0924**	**0.5096**	**0.0000**	**143.5085**	**143.5085**	**0.0454**	**0.0000**	**144.6436**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4300e-003	0.1521	0.0279	3.9000e-004	0.0110	6.0000e-004	0.0116	2.9500e-003	5.7000e-004	3.5200e-003	0.0000	37.4311	37.4311	1.7200e-003	0.0000	37.4742
Vendor	1.2500e-003	0.0321	8.3600e-003	7.0000e-005	1.6600e-003	2.4000e-004	1.8900e-003	4.8000e-004	2.3000e-004	7.0000e-004	0.0000	6.6115	6.6115	3.5000e-004	0.0000	6.6203
Worker	0.0130	9.7100e-003	0.0992	2.8000e-004	0.0280	1.9000e-004	0.0282	7.4400e-003	1.8000e-004	7.6200e-003	0.0000	25.3538	25.3538	6.9000e-004	0.0000	25.3711
Total	**0.0187**	**0.1939**	**0.1354**	**7.4000e-004**	**0.0407**	**1.0300e-003**	**0.0417**	**0.0109**	**9.8000e-004**	**0.0118**	**0.0000**	**69.3963**	**69.3963**	**2.7600e-003**	**0.0000**	**69.4656**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3417	0.0000	0.3417	0.1877	0.0000	0.1877	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0293	0.5108	0.9643	1.6000e-003		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	143.5083	143.5083	0.0454	0.0000	144.6434
Total	**0.0293**	**0.5108**	**0.9643**	**1.6000e-003**	**0.3417**	**2.6100e-003**	**0.3444**	**0.1877**	**2.6100e-003**	**0.1903**	**0.0000**	**143.5083**	**143.5083**	**0.0454**	**0.0000**	**144.6434**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4300e-003	0.1521	0.0279	3.9000e-004	0.0110	6.0000e-004	0.0116	2.9500e-003	5.7000e-004	3.5200e-003	0.0000	37.4311	37.4311	1.7200e-003	0.0000	37.4742
Vendor	1.2500e-003	0.0321	8.3600e-003	7.0000e-005	1.6600e-003	2.4000e-004	1.8900e-003	4.8000e-004	2.3000e-004	7.0000e-004	0.0000	6.6115	6.6115	3.5000e-004	0.0000	6.6203
Worker	0.0130	9.7100e-003	0.0992	2.8000e-004	0.0280	1.9000e-004	0.0282	7.4400e-003	1.8000e-004	7.6200e-003	0.0000	25.3538	25.3538	6.9000e-004	0.0000	25.3711
Total	**0.0187**	**0.1939**	**0.1354**	**7.4000e-004**	**0.0407**	**1.0300e-003**	**0.0417**	**0.0109**	**9.8000e-004**	**0.0118**	**0.0000**	**69.3963**	**69.3963**	**2.7600e-003**	**0.0000**	**69.4656**

3.2 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3349	0.0000	0.3349	0.1838	0.0000	0.1838	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0754	0.7847	0.3980	7.0000e-004		0.0407	0.0407		0.0374	0.0374	0.0000	61.8468	61.8468	0.0200	0.0000	62.3468
Total	**0.0754**	**0.7847**	**0.3980**	**7.0000e-004**	**0.3349**	**0.0407**	**0.3755**	**0.1838**	**0.0374**	**0.2212**	**0.0000**	**61.8468**	**61.8468**	**0.0200**	**0.0000**	**62.3468**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7800e-003	0.0625	0.0118	1.7000e-004	9.8500e-003	2.1000e-004	0.0101	2.5300e-003	2.0000e-004	2.7200e-003	0.0000	16.3237	16.3237	7.3000e-004	0.0000	16.3418
Vendor	4.5000e-004	0.0127	3.2700e-003	3.0000e-005	7.3000e-004	7.0000e-005	8.0000e-004	2.1000e-004	6.0000e-005	2.7000e-004	0.0000	2.8955	2.8955	1.4000e-004	0.0000	2.8990
Worker	5.2100e-003	3.7700e-003	0.0390	1.2000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3500e-003	0.0000	10.8126	10.8126	2.7000e-004	0.0000	10.8192
Total	**7.4400e-003**	**0.0790**	**0.0541**	**3.2000e-004**	**0.0229**	**3.6000e-004**	**0.0233**	**6.0200e-003**	**3.4000e-004**	**6.3400e-003**	**0.0000**	**30.0317**	**30.0317**	**1.1400e-003**	**0.0000**	**30.0601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1507	0.0000	0.1507	0.0827	0.0000	0.0827	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.2250	0.4248	7.0000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	61.8467	61.8467	0.0200	0.0000	62.3467
Total	**0.0129**	**0.2250**	**0.4248**	**7.0000e-004**	**0.1507**	**1.1500e-003**	**0.1518**	**0.0827**	**1.1500e-003**	**0.0839**	**0.0000**	**61.8467**	**61.8467**	**0.0200**	**0.0000**	**62.3467**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7800e-003	0.0625	0.0118	1.7000e-004	9.8500e-003	2.1000e-004	0.0101	2.5300e-003	2.0000e-004	2.7200e-003	0.0000	16.3237	16.3237	7.3000e-004	0.0000	16.3418
Vendor	4.5000e-004	0.0127	3.2700e-003	3.0000e-005	7.3000e-004	7.0000e-005	8.0000e-004	2.1000e-004	6.0000e-005	2.7000e-004	0.0000	2.8955	2.8955	1.4000e-004	0.0000	2.8990
Worker	5.2100e-003	3.7700e-003	0.0390	1.2000e-004	0.0123	8.0000e-005	0.0124	3.2800e-003	8.0000e-005	3.3500e-003	0.0000	10.8126	10.8126	2.7000e-004	0.0000	10.8192
Total	**7.4400e-003**	**0.0790**	**0.0541**	**3.2000e-004**	**0.0229**	**3.6000e-004**	**0.0233**	**6.0200e-003**	**3.4000e-004**	**6.3400e-003**	**0.0000**	**30.0317**	**30.0317**	**1.1400e-003**	**0.0000**	**30.0601**

3.3 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.0700e-003	0.0422	0.0440	7.0000e-005		2.2600e-003	2.2600e-003		2.0800e-003	2.0800e-003	0.0000	6.0085	6.0085	1.9400e-003	0.0000	6.0571
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.6900e-003**	**0.0422**	**0.0440**	**7.0000e-005**		**2.2600e-003**	**2.2600e-003**		**2.0800e-003**	**2.0800e-003**	**0.0000**	**6.0085**	**6.0085**	**1.9400e-003**	**0.0000**	**6.0571**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0600e-003	5.3000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
Worker	8.5000e-004	6.1000e-004	6.3300e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7534	1.7534	4.0000e-005	0.0000	1.7545
Total	**9.2000e-004**	**2.6700e-003**	**6.8600e-003**	**2.0000e-005**	**2.1200e-003**	**2.0000e-005**	**2.1400e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.2229**	**2.2229**	**6.0000e-005**	**0.0000**	**2.2246**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0000e-003	0.0301	0.0519	7.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.0085	6.0085	1.9400e-003	0.0000	6.0570
Paving	4.6200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.6200e-003**	**0.0301**	**0.0519**	**7.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**6.0085**	**6.0085**	**1.9400e-003**	**0.0000**	**6.0570**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0600e-003	5.3000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4695	0.4695	2.0000e-005	0.0000	0.4701
Worker	8.5000e-004	6.1000e-004	6.3300e-003	2.0000e-005	2.0000e-003	1.0000e-005	2.0100e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.7534	1.7534	4.0000e-005	0.0000	1.7545
Total	**9.2000e-004**	**2.6700e-003**	**6.8600e-003**	**2.0000e-005**	**2.1200e-003**	**2.0000e-005**	**2.1400e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.2229**	**2.2229**	**6.0000e-005**	**0.0000**	**2.2246**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3773	0.0000	0.3773	0.1565	0.0000	0.1565	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1936	2.1836	1.3902	2.7000e-003		0.0946	0.0946		0.0870	0.0870	0.0000	237.0067	237.0067	0.0767	0.0000	238.9230
Total	**0.1936**	**2.1836**	**1.3902**	**2.7000e-003**	**0.3773**	**0.0946**	**0.4719**	**0.1565**	**0.0870**	**0.2435**	**0.0000**	**237.0067**	**237.0067**	**0.0767**	**0.0000**	**238.9230**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0299	7.6900e-003	7.0000e-005	1.7200e-003	1.5000e-004	1.8700e-003	5.0000e-004	1.5000e-004	6.4000e-004	0.0000	6.8083	6.8083	3.3000e-004	0.0000	6.8166
Worker	0.0123	8.8700e-003	0.0918	2.8000e-004	0.0290	1.9000e-004	0.0292	7.7100e-003	1.8000e-004	7.8900e-003	0.0000	25.4242	25.4242	6.2000e-004	0.0000	25.4398
Total	**0.0133**	**0.0388**	**0.0995**	**3.5000e-004**	**0.0307**	**3.4000e-004**	**0.0310**	**8.2100e-003**	**3.3000e-004**	**8.5300e-003**	**0.0000**	**32.2325**	**32.2325**	**9.5000e-004**	**0.0000**	**32.2564**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1698	0.0000	0.1698	0.0704	0.0000	0.0704	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0440	0.8383	1.5974	2.7000e-003		4.4200e-003	4.4200e-003		4.4200e-003	4.4200e-003	0.0000	237.0064	237.0064	0.0767	0.0000	238.9227
Total	**0.0440**	**0.8383**	**1.5974**	**2.7000e-003**	**0.1698**	**4.4200e-003**	**0.1742**	**0.0704**	**4.4200e-003**	**0.0748**	**0.0000**	**237.0064**	**237.0064**	**0.0767**	**0.0000**	**238.9227**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0500e-003	0.0299	7.6900e-003	7.0000e-005	1.7200e-003	1.5000e-004	1.8700e-003	5.0000e-004	1.5000e-004	6.4000e-004	0.0000	6.8083	6.8083	3.3000e-004	0.0000	6.8166
Worker	0.0123	8.8700e-003	0.0918	2.8000e-004	0.0290	1.9000e-004	0.0292	7.7100e-003	1.8000e-004	7.8900e-003	0.0000	25.4242	25.4242	6.2000e-004	0.0000	25.4398
Total	**0.0133**	**0.0388**	**0.0995**	**3.5000e-004**	**0.0307**	**3.4000e-004**	**0.0310**	**8.2100e-003**	**3.3000e-004**	**8.5300e-003**	**0.0000**	**32.2325**	**32.2325**	**9.5000e-004**	**0.0000**	**32.2564**

Oak Park/Monticello – Phase II Construction (Mitigated)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	0.00	1000sqft	0.00	0.00	0
Other Non-Asphalt Surfaces	0.00	1000sqft	0.00	0.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	0.00	Space	0.00	0.00	0
City Park	0.33	Acre	0.33	14,952.00	0
City Park	0.00	Acre	0.00	0.00	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase II Construction - Tier IV Interim mitigation
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Phase II Construction
Proposed library, residential, and road improvements. Proposed park area expected to be used as staging area.

Construction Phase - Phase II Construction
Summer of 2020 to Spring of 2021 (6/1/2020-5/7/2021)
Construction days per week: 6

Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips for paving and architectural coating. Default vendor trips retained for building construction phase.

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Tier IV Interim mitigation for construction equipment >50 HP
Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	300.00	253.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	1.19	0.00
tblFireplaces	NumberWood	14.62	0.00
tblLandUse	LandUseSquareFeet	14,374.80	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblTripsAndVMT	WorkerTripNumber	132.00	84.00
tblTripsAndVMT	WorkerTripNumber	26.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00

tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2338	2.2010	1.8426	4.1400e-003	0.0882	0.1019	0.1901	0.0241	0.0957	0.1198	0.0000	370.2422	370.2422	0.0594	0.0000	371.7261
2021	1.0875	1.0328	0.9195	2.1700e-003	0.0511	0.0444	0.0954	0.0139	0.0418	0.0557	0.0000	194.3529	194.3529	0.0284	0.0000	195.0637
Maximum	**1.0875**	**2.2010**	**1.8426**	**4.1400e-003**	**0.0882**	**0.1019**	**0.1901**	**0.0241**	**0.0957**	**0.1198**	**0.0000**	**370.2422**	**370.2422**	**0.0594**	**0.0000**	**371.7261**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1180	1.4749	1.9752	4.1400e-003	0.0882	0.0134	0.1016	0.0241	0.0133	0.0373	0.0000	370.2420	370.2420	0.0594	0.0000	371.7258
2021	1.0365	0.7312	0.9873	2.1700e-003	0.0511	5.7800e-003	0.0569	0.0139	5.7400e-003	0.0197	0.0000	194.3528	194.3528	0.0284	0.0000	195.0636
Maximum	**1.0365**	**1.4749**	**1.9752**	**4.1400e-003**	**0.0882**	**0.0134**	**0.1016**	**0.0241**	**0.0133**	**0.0373**	**0.0000**	**370.2420**	**370.2420**	**0.0594**	**0.0000**	**371.7258**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**12.63**	**31.78**	**-7.26**	**0.00**	**0.00**	**86.88**	**44.51**	**0.00**	**86.17**	**67.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2020**	**8-31-2020**	0.9824	0.6472
2	**9-1-2020**	**11-30-2020**	1.0774	0.7010
3	**12-1-2020**	**2-28-2021**	1.0009	0.6759
4	**3-1-2021**	**5-31-2021**	1.4755	1.3192
		Highest	1.4755	1.3192

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	6/1/2020	6/23/2020	6	20	
2	Building Construction	Building Construction	6/24/2020	4/14/2021	6	253	
3	Architectural Coating	Architectural Coating	4/15/2021	5/7/2021	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.34

Residential Indoor: 230,149; Residential Outdoor: 76,716; Non-Residential Indoor: 37,500; Non-Residential Outdoor: 12,500; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	49.00	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
Paving	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0177**	**0.1407**	**0.1465**	**2.3000e-004**		**7.5300e-003**	**7.5300e-003**		**6.9300e-003**	**6.9300e-003**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1902**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	6.8800e-003	1.7700e-003	2.0000e-005	3.9000e-004	4.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5670
Worker	2.8200e-003	2.0400e-003	0.0211	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.8447	5.8447	1.4000e-004	0.0000	5.8482
Total	**3.0600e-003**	**8.9200e-003**	**0.0229**	**8.0000e-005**	**7.0500e-003**	**8.0000e-005**	**7.1400e-003**	**1.8800e-003**	**7.0000e-005**	**1.9600e-003**	**0.0000**	**7.4098**	**7.4098**	**2.2000e-004**	**0.0000**	**7.4153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3400e-003	0.1004	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
Paving	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.4500e-003**	**0.1004**	**0.1730**	**2.3000e-004**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**20.0282**	**20.0282**	**6.4800e-003**	**0.0000**	**20.1901**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4000e-004	6.8800e-003	1.7700e-003	2.0000e-005	3.9000e-004	4.0000e-005	4.3000e-004	1.1000e-004	3.0000e-005	1.5000e-004	0.0000	1.5651	1.5651	8.0000e-005	0.0000	1.5670
Worker	2.8200e-003	2.0400e-003	0.0211	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.8447	5.8447	1.4000e-004	0.0000	5.8482
Total	**3.0600e-003**	**8.9200e-003**	**0.0229**	**8.0000e-005**	**7.0500e-003**	**8.0000e-005**	**7.1400e-003**	**1.8800e-003**	**7.0000e-005**	**1.9600e-003**	**0.0000**	**7.4098**	**7.4098**	**2.2000e-004**	**0.0000**	**7.4153**

3.3 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1738	1.5733	1.3816	2.2100e-003		0.0916	0.0916		0.0861	0.0861	0.0000	189.9202	189.9202	0.0463	0.0000	191.0785
Total	**0.1738**	**1.5733**	**1.3816**	**2.2100e-003**		**0.0916**	**0.0916**		**0.0861**	**0.0861**	**0.0000**	**189.9202**	**189.9202**	**0.0463**	**0.0000**	**191.0785**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1476
Vendor	0.0161	0.4609	0.1185	1.1000e-003	0.0264	2.3600e-003	0.0288	7.6400e-003	2.2500e-003	9.8900e-003	0.0000	104.8105	104.8105	5.1400e-003	0.0000	104.9390
Worker	0.0231	0.0167	0.1730	5.3000e-004	0.0546	3.6000e-004	0.0550	0.0145	3.4000e-004	0.0149	0.0000	47.9261	47.9261	1.1800e-003	0.0000	47.9555
Total	**0.0392**	**0.4782**	**0.2916**	**1.6300e-003**	**0.0811**	**2.7200e-003**	**0.0838**	**0.0222**	**2.5900e-003**	**0.0248**	**0.0000**	**152.8840**	**152.8840**	**6.3300e-003**	**0.0000**	**153.0421**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0682	0.8874	1.4878	2.2100e-003		0.0102	0.0102		0.0102	0.0102	0.0000	189.9200	189.9200	0.0463	0.0000	191.0783
Total	**0.0682**	**0.8874**	**1.4878**	**2.2100e-003**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**189.9200**	**189.9200**	**0.0463**	**0.0000**	**191.0783**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1476
Vendor	0.0161	0.4609	0.1185	1.1000e-003	0.0264	2.3600e-003	0.0288	7.6400e-003	2.2500e-003	9.8900e-003	0.0000	104.8105	104.8105	5.1400e-003	0.0000	104.9390
Worker	0.0231	0.0167	0.1730	5.3000e-004	0.0546	3.6000e-004	0.0550	0.0145	3.4000e-004	0.0149	0.0000	47.9261	47.9261	1.1800e-003	0.0000	47.9555
Total	**0.0392**	**0.4782**	**0.2916**	**1.6300e-003**	**0.0811**	**2.7200e-003**	**0.0838**	**0.0222**	**2.5900e-003**	**0.0248**	**0.0000**	**152.8840**	**152.8840**	**6.3300e-003**	**0.0000**	**153.0421**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0846	0.7757	0.7376	1.2000e-003		0.0427	0.0427		0.0401	0.0401	0.0000	103.0786	103.0786	0.0249	0.0000	103.7003
Total	**0.0846**	**0.7757**	**0.7376**	**1.2000e-003**		**0.0427**	**0.0427**		**0.0401**	**0.0401**	**0.0000**	**103.0786**	**103.0786**	**0.0249**	**0.0000**	**103.7003**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Vendor	7.1300e-003	0.2254	0.0573	5.9000e-004	0.0143	5.1000e-004	0.0149	4.1500e-003	4.8000e-004	4.6300e-003	0.0000	56.3669	56.3669	2.6200e-003	0.0000	56.4323
Worker	0.0116	8.0900e-003	0.0856	2.8000e-004	0.0297	1.9000e-004	0.0298	7.8800e-003	1.8000e-004	8.0600e-003	0.0000	25.0866	25.0866	5.7000e-004	0.0000	25.1009
Total	**0.0187**	**0.2338**	**0.1429**	**8.7000e-004**	**0.0440**	**7.0000e-004**	**0.0447**	**0.0120**	**6.6000e-004**	**0.0127**	**0.0000**	**81.5326**	**81.5326**	**3.1900e-003**	**0.0000**	**81.6123**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0353	0.4788	0.8053	1.2000e-003		4.9800e-003	4.9800e-003		4.9800e-003	4.9800e-003	0.0000	103.0785	103.0785	0.0249	0.0000	103.7002
Total	**0.0353**	**0.4788**	**0.8053**	**1.2000e-003**		**4.9800e-003**	**4.9800e-003**		**4.9800e-003**	**4.9800e-003**	**0.0000**	**103.0785**	**103.0785**	**0.0249**	**0.0000**	**103.7002**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0790	0.0790	0.0000	0.0000	0.0791
Vendor	7.1300e-003	0.2254	0.0573	5.9000e-004	0.0143	5.1000e-004	0.0149	4.1500e-003	4.8000e-004	4.6300e-003	0.0000	56.3669	56.3669	2.6200e-003	0.0000	56.4323
Worker	0.0116	8.0900e-003	0.0856	2.8000e-004	0.0297	1.9000e-004	0.0298	7.8800e-003	1.8000e-004	8.0600e-003	0.0000	25.0866	25.0866	5.7000e-004	0.0000	25.1009
Total	**0.0187**	**0.2338**	**0.1429**	**8.7000e-004**	**0.0440**	**7.0000e-004**	**0.0447**	**0.0120**	**6.6000e-004**	**0.0127**	**0.0000**	**81.5326**	**81.5326**	**3.1900e-003**	**0.0000**	**81.6123**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1900e-003	0.0153	0.0182	3.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**0.9813**	**0.0153**	**0.0182**	**3.0000e-005**		**9.4000e-004**	**9.4000e-004**		**9.4000e-004**	**9.4000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2000e-003	1.5800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5510	1.5510	7.0000e-005	0.0000	1.5528
Worker	2.6000e-003	1.8200e-003	0.0192	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.6374	5.6374	1.3000e-004	0.0000	5.6406
Total	**2.8000e-003**	**8.0200e-003**	**0.0208**	**8.0000e-005**	**7.0500e-003**	**5.0000e-005**	**7.1200e-003**	**1.8800e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**7.1885**	**7.1885**	**2.0000e-004**	**0.0000**	**7.1935**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-004	0.0106	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.8000e-004	0.0000	2.5576
Total	**0.9797**	**0.0106**	**0.0183**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.5533**	**2.5533**	**1.8000e-004**	**0.0000**	**2.5576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.2000e-003	1.5800e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.5510	1.5510	7.0000e-005	0.0000	1.5528
Worker	2.6000e-003	1.8200e-003	0.0192	6.0000e-005	6.6600e-003	4.0000e-005	6.7100e-003	1.7700e-003	4.0000e-005	1.8100e-003	0.0000	5.6374	5.6374	1.3000e-004	0.0000	5.6406
Total	**2.8000e-003**	**8.0200e-003**	**0.0208**	**8.0000e-005**	**7.0500e-003**	**5.0000e-005**	**7.1200e-003**	**1.8800e-003**	**5.0000e-005**	**1.9400e-003**	**0.0000**	**7.1885**	**7.1885**	**2.0000e-004**	**0.0000**	**7.1935**

Oak Park/Monticello – Phase III Construction (Mitigated)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	0.00	1000sqft	0.00	0.00	0
Other Asphalt Surfaces	0.00	Acre	0.00	0.00	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	0.00	Acre	0.00	0.00	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.00	Acre	0.00	0.00	0
Parking Lot	0.00	Space	0.00	0.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.00	0.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	0.00	Dwelling Unit	0.00	0.00	0
Single Family Housing	0.00	Dwelling Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Phase III Construction - Tier IV Interim Mitigation
Following Phase II
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Phase 3

Construction Phase - Phase III Construction
Construction days per week: 6
12-week duration (5/8/2021-7/31/2021)

Trips and VMT - 84 daily construction worker trips per day
6 truck trips per day included as vendor trips

Vehicle Trips - Construction run only

Woodstoves - Construction run only

Construction Off-road Equipment Mitigation - Tier IV Interim mitigation for construction equipment >50 HP
Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	30.00
tblConstructionPhase	NumDays	20.00	28.00
tblConstructionPhase	NumDays	10.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LotAcreage	0.27	0.39
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	52.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	18.00	84.00
tblTripsAndVMT	WorkerTripNumber	134.00	84.00
tblTripsAndVMT	WorkerTripNumber	27.00	84.00
tblTripsAndVMT	WorkerTripNumber	15.00	84.00
tblVehicleTrips	ST_TR	7.16	0.00
tblVehicleTrips	ST_TR	22.75	0.00

tblVehicleTrips	ST_TR	46.55	0.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	6.07	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	25.49	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	6.59	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	56.24	0.00
tblVehicleTrips	WD_TR	9.52	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0994	0.5805	0.5917	1.1200e-003	0.0709	0.0297	0.1006	0.0317	0.0276	0.0593	0.0000	98.6519	98.6519	0.0210	0.0000	99.1762
Maximum	**0.0994**	**0.5805**	**0.5917**	**1.1200e-003**	**0.0709**	**0.0297**	**0.1006**	**0.0317**	**0.0276**	**0.0593**	**0.0000**	**98.6519**	**98.6519**	**0.0210**	**0.0000**	**99.1762**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0611	0.3669	0.6561	1.1200e-003	0.0461	2.5900e-003	0.0487	0.0181	2.5700e-003	0.0206	0.0000	98.6519	98.6519	0.0210	0.0000	99.1761
Maximum	**0.0611**	**0.3669**	**0.6561**	**1.1200e-003**	**0.0461**	**2.5900e-003**	**0.0487**	**0.0181**	**2.5700e-003**	**0.0206**	**0.0000**	**98.6519**	**98.6519**	**0.0210**	**0.0000**	**99.1761**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**38.56**	**36.79**	**-10.88**	**0.00**	**35.03**	**91.27**	**51.61**	**43.05**	**90.70**	**65.23**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-8-2021**	**8-7-2021**	0.6799	0.4267
		Highest	0.6799	0.4267

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/8/2021	5/13/2021	6	5	
2	Building Construction	Building Construction	5/14/2021	6/17/2021	6	30	
3	Architectural Coating	Architectural Coating	6/18/2021	6/29/2021	6	10	
4	Paving	Paving	6/30/2021	7/31/2021	6	28	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.8

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,350; Non-Residential Outdoor: 450; Striped Parking Area: 7,313

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	84.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1012	0.0529	1.0000e-004		5.1100e-003	5.1100e-003		4.7000e-003	4.7000e-003	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**9.7200e-003**	**0.1012**	**0.0529**	**1.0000e-004**	**0.0452**	**5.1100e-003**	**0.0503**	**0.0248**	**4.7000e-003**	**0.0295**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5500e-003	3.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3878	0.3878	2.0000e-005	0.0000	0.3882
Worker	6.5000e-004	4.5000e-004	4.8100e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4094	1.4094	3.0000e-005	0.0000	1.4102
Total	**7.0000e-004**	**2.0000e-003**	**5.2000e-003**	**2.0000e-005**	**1.7700e-003**	**1.0000e-005**	**1.7800e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.7971**	**1.7971**	**5.0000e-005**	**0.0000**	**1.7984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0203	0.0000	0.0203	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0304	0.0574	1.0000e-004		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	8.3589	8.3589	2.7000e-003	0.0000	8.4265
Total	**1.7400e-003**	**0.0304**	**0.0574**	**1.0000e-004**	**0.0203**	**1.6000e-004**	**0.0205**	**0.0112**	**1.6000e-004**	**0.0113**	**0.0000**	**8.3589**	**8.3589**	**2.7000e-003**	**0.0000**	**8.4265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.5500e-003	3.9000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3878	0.3878	2.0000e-005	0.0000	0.3882
Worker	6.5000e-004	4.5000e-004	4.8100e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4094	1.4094	3.0000e-005	0.0000	1.4102
Total	**7.0000e-004**	**2.0000e-003**	**5.2000e-003**	**2.0000e-005**	**1.7700e-003**	**1.0000e-005**	**1.7800e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.7971**	**1.7971**	**5.0000e-005**	**0.0000**	**1.7984**

3.3 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0285	0.2615	0.2486	4.0000e-004		0.0144	0.0144		0.0135	0.0135	0.0000	34.7456	34.7456	8.3800e-003	0.0000	34.9552
Total	**0.0285**	**0.2615**	**0.2486**	**4.0000e-004**		**0.0144**	**0.0144**		**0.0135**	**0.0135**	**0.0000**	**34.7456**	**34.7456**	**8.3800e-003**	**0.0000**	**34.9552**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	9.3000e-003	2.3600e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.1000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.3265	2.3265	1.1000e-004	0.0000	2.3292
Worker	3.9000e-003	2.7300e-003	0.0289	9.0000e-005	9.9900e-003	6.0000e-005	0.0101	2.6600e-003	6.0000e-005	2.7200e-003	0.0000	8.4562	8.4562	1.9000e-004	0.0000	8.4610
Total	**4.1900e-003**	**0.0120**	**0.0312**	**1.1000e-004**	**0.0106**	**8.0000e-005**	**0.0107**	**2.8300e-003**	**8.0000e-005**	**2.9100e-003**	**0.0000**	**10.7827**	**10.7827**	**3.0000e-004**	**0.0000**	**10.7902**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.1614	0.2714	4.0000e-004		1.6800e-003	1.6800e-003		1.6800e-003	1.6800e-003	0.0000	34.7456	34.7456	8.3800e-003	0.0000	34.9551
Total	**0.0119**	**0.1614**	**0.2714**	**4.0000e-004**		**1.6800e-003**	**1.6800e-003**		**1.6800e-003**	**1.6800e-003**	**0.0000**	**34.7456**	**34.7456**	**8.3800e-003**	**0.0000**	**34.9551**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9000e-004	9.3000e-003	2.3600e-003	2.0000e-005	5.9000e-004	2.0000e-005	6.1000e-004	1.7000e-004	2.0000e-005	1.9000e-004	0.0000	2.3265	2.3265	1.1000e-004	0.0000	2.3292
Worker	3.9000e-003	2.7300e-003	0.0289	9.0000e-005	9.9900e-003	6.0000e-005	0.0101	2.6600e-003	6.0000e-005	2.7200e-003	0.0000	8.4562	8.4562	1.9000e-004	0.0000	8.4610
Total	**4.1900e-003**	**0.0120**	**0.0312**	**1.1000e-004**	**0.0106**	**8.0000e-005**	**0.0107**	**2.8300e-003**	**8.0000e-005**	**2.9100e-003**	**0.0000**	**10.7827**	**10.7827**	**3.0000e-004**	**0.0000**	**10.7902**

3.4 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0301					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.0312**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.1000e-003	7.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7755	0.7755	4.0000e-005	0.0000	0.7764
Worker	1.3000e-003	9.1000e-004	9.6200e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.8187	2.8187	6.0000e-005	0.0000	2.8203
Total	**1.4000e-003**	**4.0100e-003**	**0.0104**	**4.0000e-005**	**3.5300e-003**	**3.0000e-005**	**3.5500e-003**	**9.5000e-004**	**3.0000e-005**	**9.7000e-004**	**0.0000**	**3.5942**	**3.5942**	**1.0000e-004**	**0.0000**	**3.5967**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0301					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	5.3000e-003	9.1600e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.0304**	**5.3000e-003**	**9.1600e-003**	**1.0000e-005**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.1000e-003	7.9000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7755	0.7755	4.0000e-005	0.0000	0.7764
Worker	1.3000e-003	9.1000e-004	9.6200e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.8187	2.8187	6.0000e-005	0.0000	2.8203
Total	**1.4000e-003**	**4.0100e-003**	**0.0104**	**4.0000e-005**	**3.5300e-003**	**3.0000e-005**	**3.5500e-003**	**9.5000e-004**	**3.0000e-005**	**9.7000e-004**	**0.0000**	**3.5942**	**3.5942**	**1.0000e-004**	**0.0000**	**3.5967**

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0176	0.1809	0.2052	3.2000e-004		9.4900e-003	9.4900e-003		8.7300e-003	8.7300e-003	0.0000	28.0329	28.0329	9.0700e-003	0.0000	28.2595
Paving	2.1600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.1809**	**0.2052**	**3.2000e-004**		**9.4900e-003**	**9.4900e-003**		**8.7300e-003**	**8.7300e-003**	**0.0000**	**28.0329**	**28.0329**	**9.0700e-003**	**0.0000**	**28.2595**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	8.6800e-003	2.2100e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.7000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.1714	2.1714	1.0000e-004	0.0000	2.1740
Worker	3.6400e-003	2.5500e-003	0.0269	9.0000e-005	9.3300e-003	6.0000e-005	9.3900e-003	2.4800e-003	6.0000e-005	2.5400e-003	0.0000	7.8924	7.8924	1.8000e-004	0.0000	7.8969
Total	**3.9100e-003**	**0.0112**	**0.0291**	**1.1000e-004**	**9.8800e-003**	**8.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.0639**	**10.0639**	**2.8000e-004**	**0.0000**	**10.0709**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.6800e-003	0.1406	0.2421	3.2000e-004		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	28.0328	28.0328	9.0700e-003	0.0000	28.2595
Paving	2.1600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.8400e-003**	**0.1406**	**0.2421**	**3.2000e-004**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**28.0328**	**28.0328**	**9.0700e-003**	**0.0000**	**28.2595**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	8.6800e-003	2.2100e-003	2.0000e-005	5.5000e-004	2.0000e-005	5.7000e-004	1.6000e-004	2.0000e-005	1.8000e-004	0.0000	2.1714	2.1714	1.0000e-004	0.0000	2.1740
Worker	3.6400e-003	2.5500e-003	0.0269	9.0000e-005	9.3300e-003	6.0000e-005	9.3900e-003	2.4800e-003	6.0000e-005	2.5400e-003	0.0000	7.8924	7.8924	1.8000e-004	0.0000	7.8969
Total	**3.9100e-003**	**0.0112**	**0.0291**	**1.1000e-004**	**9.8800e-003**	**8.0000e-005**	**9.9600e-003**	**2.6400e-003**	**8.0000e-005**	**2.7200e-003**	**0.0000**	**10.0639**	**10.0639**	**2.8000e-004**	**0.0000**	**10.0709**

Oak Park/Monticello – Project Operations (2021)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Project operations (2021)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33

tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6751	4.4600e-003	0.3077	2.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	1.5626	1.5626	5.1000e-004	2.0000e-005	1.5813
Energy	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	232.5629	232.5629	9.0400e-003	3.5600e-003	233.8492
Mobile	0.7031	3.0495	7.3494	0.0233	1.9592	0.0206	1.9797	0.5257	0.0193	0.5450	0.0000	2,133.7051	2,133.7051	0.0843	0.0000	2,135.8126
Waste						0.0000	0.0000		0.0000	0.0000	12.7438	0.0000	12.7438	0.7531	0.0000	31.5722
Water						0.0000	0.0000		0.0000	0.0000	1.0957	10.9566	12.0522	0.1132	2.7900e-003	15.7134
Total	**1.3901**	**3.1572**	**7.7135**	**0.0240**	**1.9592**	**0.0305**	**1.9897**	**0.5257**	**0.0292**	**0.5549**	**13.8394**	**2,378.7872**	**2,392.6267**	**0.9602**	**6.3700e-003**	**2,418.5286**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6753	6.0300e-003	0.3083	3.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	3.3878	3.3878	5.5000e-004	5.0000e-005	3.4173
Energy	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	232.5629	232.5629	9.0400e-003	3.5600e-003	233.8492
Mobile	0.6890	2.9455	7.0043	0.0218	1.8240	0.0194	1.8434	0.4894	0.0181	0.5076	0.0000	1,999.4679	1,999.4679	0.0807	0.0000	2,001.4853
Waste						0.0000	0.0000		0.0000	0.0000	9.4304	0.0000	9.4304	0.5573	0.0000	23.3634
Water						0.0000	0.0000		0.0000	0.0000	0.8765	8.7653	9.6418	0.0905	2.2300e-003	12.5707
Total	**1.3761**	**3.0547**	**7.3692**	**0.0225**	**1.8240**	**0.0295**	**1.8534**	**0.4894**	**0.0282**	**0.5177**	**10.3069**	**2,244.1838**	**2,254.4908**	**0.7381**	**5.8400e-003**	**2,274.6858**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**1.00**	**3.24**	**4.46**	**6.09**	**6.90**	**3.50**	**6.85**	**6.90**	**3.42**	**6.72**	**25.52**	**5.66**	**5.77**	**23.12**	**8.32**	**5.95**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6890	2.9455	7.0043	0.0218	1.8240	0.0194	1.8434	0.4894	0.0181	0.5076	0.0000	1,999.4679	1,999.4679	0.0807	0.0000	2,001.4853
Unmitigated	0.7031	3.0495	7.3494	0.0233	1.9592	0.0206	1.9797	0.5257	0.0193	0.5450	0.0000	2,133.7051	2,133.7051	0.0843	0.0000	2,135.8126

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	128,993
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	985,250
Library	1,810.00	2,010.00	2010.00	3,164,540	2,946,187
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	823,408
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,883,838

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Library	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.1516	115.1516	6.7900e-003	1.4100e-003	115.7402
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.1516	115.1516	6.7900e-003	1.4100e-003	115.7402
NaturalGas Mitigated	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
NaturalGas Unmitigated	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447	7.7000e-004	6.5600e-003	2.7900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006	7.7600e-003	0.0663	0.0282	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total		**0.0119**	**0.1032**	**0.0565**	**6.4000e-004**		**8.2000e-003**	**8.2000e-003**		**8.2000e-003**	**8.2000e-003**	**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447	7.7000e-004	6.5600e-003	2.7900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006	7.7600e-003	0.0663	0.0282	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total		**0.0119**	**0.1032**	**0.0565**	**6.4000e-004**		**8.2000e-003**	**8.2000e-003**		**8.2000e-003**	**8.2000e-003**	**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	6.5817	3.9000e-004	8.0000e-005	6.6154
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	42.1486	2.4900e-003	5.1000e-004	42.3641
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	4.0588	2.4000e-004	5.0000e-005	4.0795

Parking Lot	2286.9	0.5100	3.0000e-005	1.0000e-005	0.5126
Parking Lot	5950	1.3269	8.0000e-005	2.0000e-005	1.3337
Single Family Housing	271405	60.5256	3.5700e-003	7.4000e-004	60.8350
Total		**115.1516**	**6.8000e-003**	**1.4100e-003**	**115.7402**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	6.5817	3.9000e-004	8.0000e-005	6.6154
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	42.1486	2.4900e-003	5.1000e-004	42.3641
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	4.0588	2.4000e-004	5.0000e-005	4.0795
Parking Lot	2286.9	0.5100	3.0000e-005	1.0000e-005	0.5126
Parking Lot	5950	1.3269	8.0000e-005	2.0000e-005	1.3337
Single Family Housing	271405	60.5256	3.5700e-003	7.4000e-004	60.8350
Total		**115.1516**	**6.8000e-003**	**1.4100e-003**	**115.7402**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6753	6.0300e-003	0.3083	3.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	3.3878	3.3878	5.5000e-004	5.0000e-005	3.4173
Unmitigated	0.6751	4.4600e-003	0.3077	2.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	1.5626	1.5626	5.1000e-004	2.0000e-005	1.5813

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5659					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1000e-004	9.2000e-004	3.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0611	1.0611	2.0000e-005	2.0000e-005	1.0674
Landscaping	9.4500e-003	3.5400e-003	0.3073	2.0000e-005		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	0.5015	0.5015	4.9000e-004	0.0000	0.5138
Total	**0.6751**	**4.4600e-003**	**0.3077**	**3.0000e-005**		**1.7600e-003**	**1.7600e-003**		**1.7600e-003**	**1.7600e-003**	**0.0000**	**1.5626**	**1.5626**	**5.1000e-004**	**2.0000e-005**	**1.5813**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5659					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.9000e-004	2.4900e-003	1.0600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8863	2.8863	6.0000e-005	5.0000e-005	2.9034
Landscaping	9.4500e-003	3.5400e-003	0.3073	2.0000e-005		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	0.5015	0.5015	4.9000e-004	0.0000	0.5138
Total	**0.6753**	**6.0300e-003**	**0.3083**	**4.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8900e-003**	**1.8900e-003**	**0.0000**	**3.3878**	**3.3878**	**5.5000e-004**	**5.0000e-005**	**3.4173**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.6418	0.0905	2.2300e-003	12.5707
Unmitigated	12.0522	0.1132	2.7900e-003	15.7134

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.456078 / 0.287528	0.9195	0.0149	3.6000e-004	1.3995
City Park	0 / 5.7906	4.5197	2.7000e-004	6.0000e-005	4.5428

Library	0.782223 / 1.22348	2.1470	0.0256	6.3000e-004	2.9733
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.21524 / 1.39656	4.4660	0.0724	1.7500e-003	6.7977
Total		**12.0522**	**0.1132**	**2.8000e-003**	**15.7134**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.364863 / 0.230022	0.7356	0.0119	2.9000e-004	1.1196
City Park	0 / 4.63248	3.6158	2.1000e-004	4.0000e-005	3.6343
Library	0.625778 / 0.978781	1.7176	0.0205	5.0000e-004	2.3786
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.77219 / 1.11725	3.5728	0.0579	1.4000e-003	5.4382
Total		**9.6418**	**0.0905**	**2.2300e-003**	**12.5707**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4304	0.5573	0.0000	23.3634
Unmitigated	12.7438	0.7531	0.0000	31.5722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	3.22	0.6536	0.0386	0.0000	1.6193
City Park	0.42	0.0853	5.0400e-003	0.0000	0.2112
Library	23.02	4.6729	0.2762	0.0000	11.5768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	36.12	7.3320	0.4333	0.0000	18.1648
Total		**12.7438**	**0.7531**	**0.0000**	**31.5722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2.3828	0.4837	0.0286	0.0000	1.1983
City Park	0.3108	0.0631	3.7300e-003	0.0000	0.1563
Library	17.0348	3.4579	0.2044	0.0000	8.5668
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26.7288	5.4257	0.3207	0.0000	13.4420
Total		**9.4304**	**0.5573**	**0.0000**	**23.3634**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park/Monticello – Project Operations (2021)

Contra Costa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Project operations (2021)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33

tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7711	0.2039	3.4841	1.2300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	216.1423	216.1423	0.0101	3.8500e-003	217.5412
Energy	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
Mobile	6.1904	21.8640	56.8686	0.1863	15.1579	0.1528	15.3107	4.0557	0.1429	4.1985		18,781.0395	18,781.0395	0.6922		18,798.3447
Total	**10.0266**	**22.6333**	**60.6622**	**0.1910**	**15.1579**	**0.2298**	**15.3876**	**4.0557**	**0.2199**	**4.2755**	**0.0000**	**19,706.3532**	**19,706.3532**	**0.7159**	**0.0169**	**19,729.2716**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8042	0.4868	3.6045	3.0400e-003		0.0550	0.0550		0.0550	0.0550	0.0000	577.3423	577.3423	0.0170	0.0105	580.8876
Energy	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
Mobile	6.0813	21.1311	53.8708	0.1745	14.1120	0.1438	14.2558	3.7758	0.1345	3.9103		17,593.4291	17,593.4291	0.6605		17,609.9416
Total	**9.9506**	**22.1834**	**57.7848**	**0.1810**	**14.1120**	**0.2437**	**14.3557**	**3.7758**	**0.2343**	**4.0102**	**0.0000**	**18,879.9427**	**18,879.9427**	**0.6911**	**0.0235**	**18,904.2149**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.76**	**1.99**	**4.74**	**5.23**	**6.90**	**-6.05**	**6.71**	**6.90**	**-6.58**	**6.21**	**0.00**	**4.19**	**4.19**	**3.46**	**-39.29**	**4.18**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.0813	21.1311	53.8708	0.1745	14.1120	0.1438	14.2558	3.7758	0.1345	3.9103		17,593.4291	17,593.4291	0.6605		17,609.9416
Unmitigated	6.1904	21.8640	56.8686	0.1863	15.1579	0.1528	15.3107	4.0557	0.1429	4.1985		18,781.0395	18,781.0395	0.6922		18,798.3447

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	128,993
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	985,250
Library	1,810.00	2,010.00	2010.00	3,164,540	2,946,187
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	823,408
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,883,838

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Library	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
NaturalGas Unmitigated	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	390.264	4.2100e-003	0.0360	0.0153	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003		45.9135	45.9135	8.8000e-004	8.4000e-004	46.1863
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	1695.21	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4359	199.4359	3.8200e-003	3.6600e-003	200.6211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3942.49	0.0425	0.3633	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294		463.8220	463.8220	8.8900e-003	8.5000e-003	466.5783
Total		**0.0650**	**0.5655**	**0.3095**	**3.5500e-003**		**0.0449**	**0.0449**		**0.0449**	**0.0449**		**709.1714**	**709.1714**	**0.0136**	**0.0130**	**713.3857**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0.390264	4.2100e-003	0.0360	0.0153	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003		45.9135	45.9135	8.8000e-004	8.4000e-004	46.1863
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	1.69521	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4359	199.4359	3.8200e-003	3.6600e-003	200.6211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.94249	0.0425	0.3633	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294		463.8220	463.8220	8.8900e-003	8.5000e-003	466.5783
Total		**0.0650**	**0.5655**	**0.3095**	**3.5500e-003**		**0.0449**	**0.0449**		**0.0449**	**0.0449**		**709.1714**	**709.1714**	**0.0136**	**0.0130**	**713.3857**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8042	0.4868	3.6045	3.0400e-003		0.0550	0.0550		0.0550	0.0550	0.0000	577.3423	577.3423	0.0170	0.0105	580.8876
Unmitigated	3.7711	0.2039	3.4841	1.2300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	216.1423	216.1423	0.0101	3.8500e-003	217.5412

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0193	0.1645	0.0700	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	210.0000	210.0000	4.0200e-003	3.8500e-003	211.2479
Landscaping	0.1050	0.0394	3.4141	1.8000e-004		0.0188	0.0188		0.0188	0.0188		6.1423	6.1423	6.0400e-003		6.2933
Total	**3.7711**	**0.2039**	**3.4841**	**1.2300e-003**		**0.0321**	**0.0321**		**0.0321**	**0.0321**	**0.0000**	**216.1423**	**216.1423**	**0.0101**	**3.8500e-003**	**217.5412**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0524	0.4474	0.1904	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	571.2000	571.2000	0.0110	0.0105	574.5944
Landscaping	0.1050	0.0394	3.4141	1.8000e-004		0.0188	0.0188		0.0188	0.0188		6.1423	6.1423	6.0400e-003		6.2933
Total	**3.8042**	**0.4868**	**3.6045**	**3.0400e-003**		**0.0550**	**0.0550**		**0.0550**	**0.0550**	**0.0000**	**577.3423**	**577.3423**	**0.0170**	**0.0105**	**580.8876**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park/Monticello – Project Operations (2021)

Contra Costa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Project operations (2021)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33
tblLandUse	LotAcreage	0.44	0.18

tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.7711	0.2039	3.4841	1.2300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	216.1423	216.1423	0.0101	3.8500e-003	217.5412

Energy	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
Mobile	5.0469	22.9375	57.6868	0.1718	15.1579	0.1543	15.3121	4.0557	0.1443	4.2000		17,324.2304	17,324.2304	0.7102		17,341.9860
Total	**8.8831**	**23.7068**	**61.4804**	**0.1766**	**15.1579**	**0.2312**	**15.3891**	**4.0557**	**0.2213**	**4.2769**	**0.0000**	**18,249.5440**	**18,249.5440**	**0.7339**	**0.0169**	**18,272.9128**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.8042	0.4868	3.6045	3.0400e-003		0.0550	0.0550		0.0550	0.0550	0.0000	577.3423	577.3423	0.0170	0.0105	580.8876
Energy	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
Mobile	4.9407	22.1257	55.1045	0.1609	14.1120	0.1453	14.2573	3.7758	0.1359	3.9117		16,227.9546	16,227.9546	0.6807		16,244.9707
Total	**8.8099**	**23.1780**	**59.0185**	**0.1675**	**14.1120**	**0.2451**	**14.3571**	**3.7758**	**0.2357**	**4.0116**	**0.0000**	**17,514.4683**	**17,514.4683**	**0.7112**	**0.0235**	**17,539.2440**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.82**	**2.23**	**4.00**	**5.13**	**6.90**	**-6.01**	**6.71**	**6.90**	**-6.54**	**6.20**	**0.00**	**4.03**	**4.03**	**3.09**	**-39.29**	**4.02**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.9407	22.1257	55.1045	0.1609	14.1120	0.1453	14.2573	3.7758	0.1359	3.9117		16,227.9546	16,227.9546	0.6807		16,244.9707
Unmitigated	5.0469	22.9375	57.6868	0.1718	15.1579	0.1543	15.3121	4.0557	0.1443	4.2000		17,324.2304	17,324.2304	0.7102		17,341.9860

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	128,993
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	985,250
Library	1,810.00	2,010.00	2010.00	3,164,540	2,946,187
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	823,408
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,883,838

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Library	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857
NaturalGas Unmitigated	0.0650	0.5655	0.3095	3.5500e-003		0.0449	0.0449		0.0449	0.0449		709.1714	709.1714	0.0136	0.0130	713.3857

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	390.264	4.2100e-003	0.0360	0.0153	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003		45.9135	45.9135	8.8000e-004	8.4000e-004	46.1863
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	1695.21	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4359	199.4359	3.8200e-003	3.6600e-003	200.6211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3942.49	0.0425	0.3633	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294		463.8220	463.8220	8.8900e-003	8.5000e-003	466.5783
Total		**0.0650**	**0.5655**	**0.3095**	**3.5500e-003**		**0.0449**	**0.0449**		**0.0449**	**0.0449**		**709.1714**	**709.1714**	**0.0136**	**0.0130**	**713.3857**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0.390264	4.2100e-003	0.0360	0.0153	2.3000e-004		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003		45.9135	45.9135	8.8000e-004	8.4000e-004	46.1863
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Library	1.69521	0.0183	0.1662	0.1396	1.0000e-003		0.0126	0.0126		0.0126	0.0126		199.4359	199.4359	3.8200e-003	3.6600e-003	200.6211
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.94249	0.0425	0.3633	0.1546	2.3200e-003		0.0294	0.0294		0.0294	0.0294		463.8220	463.8220	8.8900e-003	8.5000e-003	466.5783
Total		**0.0650**	**0.5655**	**0.3095**	**3.5500e-003**		**0.0449**	**0.0449**		**0.0449**	**0.0449**		**709.1714**	**709.1714**	**0.0136**	**0.0130**	**713.3857**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8042	0.4868	3.6045	3.0400e-003		0.0550	0.0550		0.0550	0.0550	0.0000	577.3423	577.3423	0.0170	0.0105	580.8876
Unmitigated	3.7711	0.2039	3.4841	1.2300e-003		0.0321	0.0321		0.0321	0.0321	0.0000	216.1423	216.1423	0.0101	3.8500e-003	217.5412

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0193	0.1645	0.0700	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	210.0000	210.0000	4.0200e-003	3.8500e-003	211.2479
Landscaping	0.1050	0.0394	3.4141	1.8000e-004		0.0188	0.0188		0.0188	0.0188		6.1423	6.1423	6.0400e-003		6.2933
Total	**3.7711**	**0.2039**	**3.4841**	**1.2300e-003**		**0.0321**	**0.0321**		**0.0321**	**0.0321**	**0.0000**	**216.1423**	**216.1423**	**0.0101**	**3.8500e-003**	**217.5412**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0524	0.4474	0.1904	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	571.2000	571.2000	0.0110	0.0105	574.5944

Landscaping	0.1050	0.0394	3.4141	1.8000e-004		0.0188	0.0188		0.0188	0.0188		6.1423	6.1423	6.0400e-003		6.2933
Total	**3.8042**	**0.4868**	**3.6045**	**3.0400e-003**		**0.0550**	**0.0550**		**0.0550**	**0.0550**	**0.0000**	**577.3423**	**577.3423**	**0.0170**	**0.0105**	**580.8876**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park/Monticello – Project Operations (2030)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2030
Utility Company	Pacific Gas & Electric Company				

CO2 Intensity (lb/MWhr)	366.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Project operations (2030)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard
Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33
tblLandUse	LotAcreage	0.44	0.18

tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	366.9
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	1.5626	1.5626	5.0000e-004	2.0000e-005	1.5811
Energy											0.0000	203.3446	203.3446	9.0400e-003	3.5600e-003	204.6309
Mobile											0.0000	1,646.3270	1,646.3270	0.0521	0.0000	1,647.6299
Waste											12.7438	0.0000	12.7438	0.7531	0.0000	31.5722
Water											1.0957	8.1765	9.2721	0.1132	2.7900e-003	12.9333
Total											**13.8394**	**1,859.4108**	**1,873.2502**	**0.9280**	**6.3700e-003**	**1,898.3473**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.3878	3.3878	5.4000e-004	5.0000e-005	3.4171
Energy											0.0000	203.3446	203.3446	9.0400e-003	3.5600e-003	204.6309
Mobile											0.0000	1,544.0935	1,544.0935	0.0498	0.0000	1,545.3372
Waste											9.4304	0.0000	9.4304	0.5573	0.0000	23.3634
Water											0.8765	6.5412	7.4177	0.0905	2.2300e-003	10.3466
Total											**10.3069**	**1,757.3670**	**1,767.6739**	**0.7072**	**5.8400e-003**	**1,787.0952**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**25.52**	**5.49**	**5.64**	**23.79**	**8.32**	**5.86**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	1,544.0935	1,544.0935	0.0498	0.0000	1,545.3372
Unmitigated											0.0000	1,646.3270	1,646.3270	0.0521	0.0000	1,647.6299

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	128,993
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	985,250
Library	1,810.00	2,010.00	2010.00	3,164,540	2,946,187
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	823,408
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,883,838

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
City Park	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Library	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Single Family Housing	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	85.9333	85.9333	6.7900e-003	1.4100e-003	86.5219
Electricity Unmitigated											0.0000	85.9333	85.9333	6.7900e-003	1.4100e-003	86.5219
NaturalGas Mitigated											0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
NaturalGas Unmitigated											0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447											0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750											0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006											0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total												**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447											0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750											0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006											0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total												**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	4.9117	3.9000e-004	8.0000e-005	4.9453
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	31.4540	2.4900e-003	5.1000e-004	31.6694
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	3.0289	2.4000e-004	5.0000e-005	3.0497

Parking Lot	2286.9	0.3806	3.0000e-005	1.0000e-005	0.3832
Parking Lot	5950	0.9902	8.0000e-005	2.0000e-005	0.9970
Single Family Housing	271405	45.1680	3.5700e-003	7.4000e-004	45.4774
Total		**85.9333**	**6.8000e-003**	**1.4100e-003**	**86.5219**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	4.9117	3.9000e-004	8.0000e-005	4.9453
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	31.4540	2.4900e-003	5.1000e-004	31.6694
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	3.0289	2.4000e-004	5.0000e-005	3.0497
Parking Lot	2286.9	0.3806	3.0000e-005	1.0000e-005	0.3832
Parking Lot	5950	0.9902	8.0000e-005	2.0000e-005	0.9970
Single Family Housing	271405	45.1680	3.5700e-003	7.4000e-004	45.4774
Total		**85.9333**	**6.8000e-003**	**1.4100e-003**	**86.5219**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	3.3878	3.3878	5.4000e-004	5.0000e-005	3.4171
Unmitigated											0.0000	1.5626	1.5626	5.0000e-004	2.0000e-005	1.5811

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	1.0611	1.0611	2.0000e-005	2.0000e-005	1.0674
Landscaping											0.0000	0.5015	0.5015	4.8000e-004	0.0000	0.5136
Total											**0.0000**	**1.5626**	**1.5626**	**5.0000e-004**	**2.0000e-005**	**1.5811**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	2.8863	2.8863	6.0000e-005	5.0000e-005	2.9034
Landscaping											0.0000	0.5015	0.5015	4.8000e-004	0.0000	0.5136
Total											**0.0000**	**3.3878**	**3.3878**	**5.4000e-004**	**5.0000e-005**	**3.4171**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.4177	0.0905	2.2300e-003	10.3466
Unmitigated	9.2721	0.1132	2.7900e-003	12.9333

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.456078 / 0.287528	0.7229	0.0149	3.6000e-004	1.2029
City Park	0 / 5.7906	3.3729	2.7000e-004	6.0000e-005	3.3960
Library	0.782223 / 1.22348	1.6652	0.0256	6.3000e-004	2.4915
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.21524 / 1.39656	3.5111	0.0724	1.7500e-003	5.8429
Total		**9.2721**	**0.1132**	**2.8000e-003**	**12.9333**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.364863 / 0.230022	0.5783	0.0119	2.9000e-004	0.9624
City Park	0 / 4.63248	2.6983	2.1000e-004	4.0000e-005	2.7168
Library	0.625778 / 0.978781	1.3322	0.0205	5.0000e-004	1.9932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.77219 / 1.11725	2.8089	0.0579	1.4000e-003	4.6743
Total		**7.4177**	**0.0905**	**2.2300e-003**	**10.3466**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4304	0.5573	0.0000	23.3634
Unmitigated	12.7438	0.7531	0.0000	31.5722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	3.22	0.6536	0.0386	0.0000	1.6193
City Park	0.42	0.0853	5.0400e-003	0.0000	0.2112
Library	23.02	4.6729	0.2762	0.0000	11.5768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	36.12	7.3320	0.4333	0.0000	18.1648
Total		**12.7438**	**0.7531**	**0.0000**	**31.5722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2.3828	0.4837	0.0286	0.0000	1.1983
City Park	0.3108	0.0631	3.7300e-003	0.0000	0.1563
Library	17.0348	3.4579	0.2044	0.0000	8.5668
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Single Family Housing	26.7288	5.4257	0.3207	0.0000	13.4420
Total		**9.4304**	**0.5573**	**0.0000**	**23.3634**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park/Monticello – Mitigated Project Operations (2021)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Mitigated project operations (2021)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Energy Mitigation - MM GHG-1

Mobile Commute Mitigation - MM GHG-1

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00

tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6751	4.4600e-003	0.3077	2.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	1.5626	1.5626	5.1000e-004	2.0000e-005	1.5813
Energy	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	232.5629	232.5629	9.0400e-003	3.5600e-003	233.8492
Mobile	0.7031	3.0495	7.3494	0.0233	1.9592	0.0206	1.9797	0.5257	0.0193	0.5450	0.0000	2,133.7051	2,133.7051	0.0843	0.0000	2,135.8126
Waste						0.0000	0.0000		0.0000	0.0000	12.7438	0.0000	12.7438	0.7531	0.0000	31.5722
Water						0.0000	0.0000		0.0000	0.0000	1.0957	10.9566	12.0522	0.1132	2.7900e-003	15.7134
Total	**1.3901**	**3.1572**	**7.7135**	**0.0240**	**1.9592**	**0.0305**	**1.9897**	**0.5257**	**0.0292**	**0.5549**	**13.8394**	**2,378.7872**	**2,392.6267**	**0.9602**	**6.3700e-003**	**2,418.5286**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6753	6.0300e-003	0.3083	3.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	3.3878	3.3878	5.5000e-004	5.0000e-005	3.4173
Energy	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
Mobile	0.6807	2.8846	6.8021	0.0210	1.7447	0.0187	1.7634	0.4682	0.0175	0.4856	0.0000	1,920.7879	1,920.7879	0.0786	0.0000	1,922.7524
Waste						0.0000	0.0000		0.0000	0.0000	9.4304	0.0000	9.4304	0.5573	0.0000	23.3634
Water						0.0000	0.0000		0.0000	0.0000	0.8765	8.7653	9.6418	0.0905	2.2300e-003	12.5707
Total	**1.3679**	**2.9938**	**7.1669**	**0.0217**	**1.7447**	**0.0288**	**1.7735**	**0.4682**	**0.0276**	**0.4957**	**10.3069**	**2,050.3522**	**2,060.6591**	**0.7292**	**4.4300e-003**	**2,080.2128**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**1.60**	**5.18**	**7.09**	**9.67**	**10.94**	**5.80**	**10.87**	**10.94**	**5.65**	**10.67**	**25.52**	**13.81**	**13.87**	**24.05**	**30.46**	**13.99**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6807	2.8846	6.8021	0.0210	1.7447	0.0187	1.7634	0.4682	0.0175	0.4856	0.0000	1,920.7879	1,920.7879	0.0786	0.0000	1,922.7524
Unmitigated	0.7031	3.0495	7.3494	0.0233	1.9592	0.0206	1.9797	0.5257	0.0193	0.5450	0.0000	2,133.7051	2,133.7051	0.0843	0.0000	2,135.8126

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	125,851
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	942,872
Library	1,810.00	2,010.00	2010.00	3,164,540	2,799,610
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	803,351
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,671,684

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-[illegible]	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
City Park	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Library	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Other Non-Asphalt Surfaces	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Parking Lot	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871
Single Family Housing	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.1516	115.1516	6.7900e-003	1.4100e-003	115.7402
NaturalGas Mitigated	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
NaturalGas Unmitigated	0.0119	0.1032	0.0565	6.5000e-004		8.2000e-003	8.2000e-003		8.2000e-003	8.2000e-003	0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447	7.7000e-004	6.5600e-003	2.7900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006	7.7600e-003	0.0663	0.0282	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total		**0.0119**	**0.1032**	**0.0565**	**6.4000e-004**		**8.2000e-003**	**8.2000e-003**		**8.2000e-003**	**8.2000e-003**	**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447	7.7000e-004	6.5600e-003	2.7900e-003	4.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750	3.3400e-003	0.0303	0.0255	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006	7.7600e-003	0.0663	0.0282	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003	0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473

Total		**0.0119**	**0.1032**	**0.0565**	**6.4000e-004**		**8.2000e-003**	**8.2000e-003**		**8.2000e-003**	**8.2000e-003**	**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	6.5817	3.9000e-004	8.0000e-005	6.6154
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	42.1486	2.4900e-003	5.1000e-004	42.3641
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	4.0588	2.4000e-004	5.0000e-005	4.0795
Parking Lot	2286.9	0.5100	3.0000e-005	1.0000e-005	0.5126
Parking Lot	5950	1.3269	8.0000e-005	2.0000e-005	1.3337
Single Family Housing	271405	60.5256	3.5700e-003	7.4000e-004	60.8350
Total		**115.1516**	**6.8000e-003**	**1.4100e-003**	**115.7402**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6753	6.0300e-003	0.3083	3.0000e-005		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	3.3878	3.3878	5.5000e-004	5.0000e-005	3.4173
Unmitigated	0.6751	4.4600e-003	0.3077	2.0000e-005		1.7600e-003	1.7600e-003		1.7600e-003	1.7600e-003	0.0000	1.5626	1.5626	5.1000e-004	2.0000e-005	1.5813

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5659					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1000e-004	9.2000e-004	3.9000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0611	1.0611	2.0000e-005	2.0000e-005	1.0674
Landscaping	9.4500e-003	3.5400e-003	0.3073	2.0000e-005		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	0.5015	0.5015	4.9000e-004	0.0000	0.5138
Total	**0.6751**	**4.4600e-003**	**0.3077**	**3.0000e-005**		**1.7600e-003**	**1.7600e-003**		**1.7600e-003**	**1.7600e-003**	**0.0000**	**1.5626**	**1.5626**	**5.1000e-004**	**2.0000e-005**	**1.5813**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5659					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.9000e-004	2.4900e-003	1.0600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8863	2.8863	6.0000e-005	5.0000e-005	2.9034
Landscaping	9.4500e-003	3.5400e-003	0.3073	2.0000e-005		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	0.5015	0.5015	4.9000e-004	0.0000	0.5138
Total	**0.6753**	**6.0300e-003**	**0.3083**	**4.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8900e-003**	**1.8900e-003**	**0.0000**	**3.3878**	**3.3878**	**5.5000e-004**	**5.0000e-005**	**3.4173**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.6418	0.0905	2.2300e-003	12.5707
Unmitigated	12.0522	0.1132	2.7900e-003	15.7134

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.456078 / 0.287528	0.9195	0.0149	3.6000e-004	1.3995
City Park	0 / 5.7906	4.5197	2.7000e-004	6.0000e-005	4.5428
Library	0.782223 / 1.22348	2.1470	0.0256	6.3000e-004	2.9733
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.21524 / 1.39656	4.4660	0.0724	1.7500e-003	6.7977
Total		**12.0522**	**0.1132**	**2.8000e-003**	**15.7134**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.364863 / 0.230022	0.7356	0.0119	2.9000e-004	1.1196
City Park	0 / 4.63248	3.6158	2.1000e-004	4.0000e-005	3.6343
Library	0.625778 / 0.978781	1.7176	0.0205	5.0000e-004	2.3786
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.77219 / 1.11725	3.5728	0.0579	1.4000e-003	5.4382
Total		**9.6418**	**0.0905**	**2.2300e-003**	**12.5707**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4304	0.5573	0.0000	23.3634
Unmitigated	12.7438	0.7531	0.0000	31.5722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	3.22	0.6536	0.0386	0.0000	1.6193
City Park	0.42	0.0853	5.0400e-003	0.0000	0.2112
Library	23.02	4.6729	0.2762	0.0000	11.5768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	36.12	7.3320	0.4333	0.0000	18.1648
Total		**12.7438**	**0.7531**	**0.0000**	**31.5722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2.3828	0.4837	0.0286	0.0000	1.1983
City Park	0.3108	0.0631	3.7300e-003	0.0000	0.1563
Library	17.0348	3.4579	0.2044	0.0000	8.5668
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Single Family Housing	26.7288	5.4257	0.3207	0.0000	13.4420
Total		**9.4304**	**0.5573**	**0.0000**	**23.3634**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park/Monticello – Mitigated Project Operations (2030)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	25.00	1000sqft	0.57	25,000.00	0
Other Asphalt Surfaces	0.56	Acre	0.56	24,393.60	0
Other Asphalt Surfaces	1.26	Acre	1.26	54,885.60	0
Other Non-Asphalt Surfaces	2.02	Acre	2.02	87,991.20	0
Other Non-Asphalt Surfaces	2.16	1000sqft	0.05	2,160.00	0
Other Non-Asphalt Surfaces	40.00	1000sqft	0.92	40,000.00	0
Other Non-Asphalt Surfaces	0.18	Acre	0.18	7,840.80	0
Parking Lot	0.15	Acre	0.15	6,534.00	0
Parking Lot	130.00	Space	1.17	52,000.00	0
Parking Lot	30.00	Space	0.39	17,000.00	0
City Park	0.00	Acre	0.33	14,952.00	0
City Park	4.53	Acre	4.53	197,326.80	0
Apartments Low Rise	7.00	Dwelling Unit	0.18	7,000.00	17
Single Family Housing	34.00	Dwelling Unit	4.29	106,654.00	86

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2030

Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	366.9	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Oak Park/Monticello Mixed-use Project - Project operations (2030)
PG&E CO2 intensity factor adjusted based on Renewable Portfolio Standard

Land Use - Summary of all sites consistent with project description

Construction Phase - Operational run only

Off-road Equipment - Operational run only

Trips and VMT - Operational run only

Demolition - Operational run only

Vehicle Trips - Trip rates consistent with TIA Jan 2019

Woodstoves - No woodburning

Water And Wastewater - Includes outdoor water use for pocket park

Solid Waste - Solid waste estimates include pocket park

Mobile Commute Mitigation - MM GHG-1

Energy Mitigation - MM GHG-1

Water Mitigation - Compliance with Green Building Code Standards and California Model Water Efficient Landscape Ordinance

Waste Mitigation - 75% state mandate for recycling-AB 341 (26% reduction)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	1.05	0.00
tblFireplaces	NumberWood	1.19	0.00
tblLandUse	LandUseSquareFeet	12,000.00	17,000.00
tblLandUse	LandUseSquareFeet	0.00	14,952.00
tblLandUse	LandUseSquareFeet	61,200.00	106,654.00
tblLandUse	LotAcreage	0.27	0.39
tblLandUse	LotAcreage	0.00	0.33
tblLandUse	LotAcreage	0.44	0.18
tblLandUse	LotAcreage	11.04	4.29
tblLandUse	Population	20.00	17.00
tblLandUse	Population	97.00	86.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	366.9
tblSolidWaste	SolidWasteGenerationRate	0.39	0.42
tblVehicleTrips	ST_TR	7.16	8.57
tblVehicleTrips	ST_TR	22.75	278.15
tblVehicleTrips	ST_TR	46.55	80.40
tblVehicleTrips	ST_TR	9.91	10.59
tblVehicleTrips	SU_TR	6.07	8.57
tblVehicleTrips	SU_TR	16.74	278.15
tblVehicleTrips	SU_TR	25.49	80.40
tblVehicleTrips	SU_TR	8.62	10.90
tblVehicleTrips	WD_TR	6.59	8.57
tblVehicleTrips	WD_TR	1.89	41.94
tblVehicleTrips	WD_TR	56.24	72.40
tblVehicleTrips	WD_TR	9.52	11.47
tblWater	OutdoorWaterUseRate	5,397,410.51	5,790,599.36
tblWoodstoves	WoodstoveWoodMass	582.40	0.00
tblWoodstoves	WoodstoveWoodMass	956.80	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	1.5626	1.5626	5.0000e-004	2.0000e-005	1.5811
Energy											0.0000	203.3446	203.3446	9.0400e-003	3.5600e-003	204.6309
Mobile											0.0000	1,646.3270	1,646.3270	0.0521	0.0000	1,647.6299
Waste											12.7438	0.0000	12.7438	0.7531	0.0000	31.5722
Water											1.0957	8.1765	9.2721	0.1132	2.7900e-003	12.9333
Total											**13.8394**	**1,859.4108**	**1,873.2502**	**0.9280**	**6.3700e-003**	**1,898.3473**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	3.3878	3.3878	5.4000e-004	5.0000e-005	3.4171
Energy											0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
Mobile											0.0000	1,484.1716	1,484.1716	0.0484	0.0000	1,485.3807
Waste											9.4304	0.0000	9.4304	0.5573	0.0000	23.3634
Water											0.8765	6.5412	7.4177	0.0905	2.2300e-003	10.3466
Total											**10.3069**	**1,611.5119**	**1,621.8188**	**0.6990**	**4.4300e-003**	**1,640.6168**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**25.52**	**13.33**	**13.42**	**24.67**	**30.46**	**13.58**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	1,484.1716	1,484.1716	0.0484	0.0000	1,485.3807
Unmitigated											0.0000	1,646.3270	1,646.3270	0.0521	0.0000	1,647.6299

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	59.99	59.99	59.99	138,553	125,851
City Park	0.00	0.00	0.00		
City Park	189.99	1,260.02	1260.02	1,058,271	942,872
Library	1,810.00	2,010.00	2010.00	3,164,540	2,799,610
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	389.98	360.06	370.60	884,434	803,351
Total	2,449.96	3,690.07	3,700.61	5,245,798	4,671,684

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
City Park	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Library	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Other Non-Asphalt Surfaces	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Parking Lot	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659
Single Family Housing	0.606524	0.034895	0.184335	0.108602	0.012129	0.004836	0.010863	0.026200	0.001662	0.001538	0.005105	0.002652	0.000659

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated											0.0000	85.9333	85.9333	6.7900e-003	1.4100e-003	86.5219
NaturalGas Mitigated											0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090
NaturalGas Unmitigated											0.0000	117.4113	117.4113	2.2500e-003	2.1500e-003	118.1090

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447											0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750											0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006											0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total												**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	142447											0.0000	7.6015	7.6015	1.5000e-004	1.4000e-004	7.6467
City Park	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Library	618750											0.0000	33.0189	33.0189	6.3000e-004	6.1000e-004	33.2151
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.43901e+006											0.0000	76.7909	76.7909	1.4700e-003	1.4100e-003	77.2473
Total												**0.0000**	**117.4113**	**117.4113**	**2.2500e-003**	**2.1600e-003**	**118.1090**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	29513.3	4.9117	3.9000e-004	8.0000e-005	4.9453
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	189000	31.4540	2.4900e-003	5.1000e-004	31.6694
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	18200	3.0289	2.4000e-004	5.0000e-005	3.0497
Parking Lot	2286.9	0.3806	3.0000e-005	1.0000e-005	0.3832
Parking Lot	5950	0.9902	8.0000e-005	2.0000e-005	0.9970
Single Family Housing	271405	45.1680	3.5700e-003	7.4000e-004	45.4774
Total		**85.9333**	**6.8000e-003**	**1.4100e-003**	**86.5219**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Library	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	3.3878	3.3878	5.4000e-004	5.0000e-005	3.4171
Unmitigated											0.0000	1.5626	1.5626	5.0000e-004	2.0000e-005	1.5811

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	1.0611	1.0611	2.0000e-005	2.0000e-005	1.0674
Landscaping											0.0000	0.5015	0.5015	4.8000e-004	0.0000	0.5136
Total											**0.0000**	**1.5626**	**1.5626**	**5.0000e-004**	**2.0000e-005**	**1.5811**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	2.8863	2.8863	6.0000e-005	5.0000e-005	2.9034
Landscaping											0.0000	0.5015	0.5015	4.8000e-004	0.0000	0.5136
Total											**0.0000**	**3.3878**	**3.3878**	**5.4000e-004**	**5.0000e-005**	**3.4171**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.4177	0.0905	2.2300e-003	10.3466
Unmitigated	9.2721	0.1132	2.7900e-003	12.9333

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.456078 / 0.287528	0.7229	0.0149	3.6000e-004	1.2029
City Park	0 / 5.7906	3.3729	2.7000e-004	6.0000e-005	3.3960
Library	0.782223 / 1.22348	1.6652	0.0256	6.3000e-004	2.4915
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.21524 / 1.39656	3.5111	0.0724	1.7500e-003	5.8429
Total		**9.2721**	**0.1132**	**2.8000e-003**	**12.9333**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.364863 / 0.230022	0.5783	0.0119	2.9000e-004	0.9624
City Park	0 / 4.63248	2.6983	2.1000e-004	4.0000e-005	2.7168
Library	0.625778 / 0.978781	1.3322	0.0205	5.0000e-004	1.9932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.77219 / 1.11725	2.8089	0.0579	1.4000e-003	4.6743
Total		**7.4177**	**0.0905**	**2.2300e-003**	**10.3466**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.4304	0.5573	0.0000	23.3634
Unmitigated	12.7438	0.7531	0.0000	31.5722

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	3.22	0.6536	0.0386	0.0000	1.6193
City Park	0.42	0.0853	5.0400e-003	0.0000	0.2112
Library	23.02	4.6729	0.2762	0.0000	11.5768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	36.12	7.3320	0.4333	0.0000	18.1648
Total		**12.7438**	**0.7531**	**0.0000**	**31.5722**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2.3828	0.4837	0.0286	0.0000	1.1983
City Park	0.3108	0.0631	3.7300e-003	0.0000	0.1563
Library	17.0348	3.4579	0.2044	0.0000	8.5668
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	26.7288	5.4257	0.3207	0.0000	13.4420
Total		**9.4304**	**0.5573**	**0.0000**	**23.3634**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park - Existing Library

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	37.36	1000sqft	0.86	37,364.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	491.65	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing 37,364-square-foot Pleasant Hill Library

Land Use - Existing 37,364-square-foot Pleasant Hill Library

Construction Phase - Existing library operations

Off-road Equipment - Existing library operations

Trips and VMT - Operations only

Vehicle Trips - Trip rates for the existing library consistent with those presented in the project-specific transportation impact assessment.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblLandUse	LandUseSquareFeet	37,360.00	37,364.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblVehicleTrips	ST_TR	46.55	33.99
tblVehicleTrips	SU_TR	25.49	33.99
tblVehicleTrips	WD_TR	56.24	40.15

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1654	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	112.3423	112.3423	4.6600e-003	1.6700e-003	112.9576
Mobile	0.3496	1.4867	3.5176	0.0109	0.9078	9.6900e-003	0.9175	0.2436	9.0600e-003	0.2527	0.0000	997.6500	997.6500	0.0406	0.0000	998.6647
Waste						0.0000	0.0000		0.0000	0.0000	6.9849	0.0000	6.9849	0.4128	0.0000	17.3048
Water						0.0000	0.0000		0.0000	0.0000	0.3709	2.8377	3.2085	0.0383	9.3000e-004	4.4433
Total	**0.5200**	**1.5320**	**3.5560**	**0.0112**	**0.9078**	**0.0131**	**0.9209**	**0.2436**	**0.0125**	**0.2561**	**7.3558**	**1,112.8306**	**1,120.1864**	**0.4963**	**2.6000e-003**	**1,133.3712**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1654	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	112.3423	112.3423	4.6600e-003	1.6700e-003	112.9576
Mobile	0.3496	1.4867	3.5176	0.0109	0.9078	9.6900e-003	0.9175	0.2436	9.0600e-003	0.2527	0.0000	997.6500	997.6500	0.0406	0.0000	998.6647
Waste						0.0000	0.0000		0.0000	0.0000	6.9849	0.0000	6.9849	0.4128	0.0000	17.3048
Water						0.0000	0.0000		0.0000	0.0000	0.3709	2.8377	3.2085	0.0383	9.3000e-004	4.4433
Total	**0.5200**	**1.5320**	**3.5560**	**0.0112**	**0.9078**	**0.0131**	**0.9209**	**0.2436**	**0.0125**	**0.2561**	**7.3558**	**1,112.8306**	**1,120.1864**	**0.4963**	**2.6000e-003**	**1,133.3712**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1948**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3496	1.4867	3.5176	0.0109	0.9078	9.6900e-003	0.9175	0.2436	9.0600e-003	0.2527	0.0000	997.6500	997.6500	0.0406	0.0000	998.6647
Unmitigated	0.3496	1.4867	3.5176	0.0109	0.9078	9.6900e-003	0.9175	0.2436	9.0600e-003	0.2527	0.0000	997.6500	997.6500	0.0406	0.0000	998.6647

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	1,499.84	1,269.86	1269.86	2,430,648	2,430,648
Total	1,499.84	1,269.86	1,269.86	2,430,648	2,430,648

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.582298	0.039109	0.186022	0.123408	0.017184	0.005083	0.010615	0.023794	0.001605	0.001810	0.005454	0.002746	0.000871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	62.9937	62.9937	3.7200e-003	7.7000e-004	63.3157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	62.9937	62.9937	3.7200e-003	7.7000e-004	63.3157
NaturalGas Mitigated	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
NaturalGas Unmitigated	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	kBTU/yr	tons/yr										MT/yr					
Library	924759	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
Total		**4.9900e-003**	**0.0453**	**0.0381**	**2.7000e-004**		**3.4500e-003**	**3.4500e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**49.3487**	**49.3487**	**9.5000e-004**	**9.0000e-004**	**49.6419**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	924759	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
Total		**4.9900e-003**	**0.0453**	**0.0381**	**2.7000e-004**		**3.4500e-003**	**3.4500e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**49.3487**	**49.3487**	**9.5000e-004**	**9.0000e-004**	**49.6419**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	282472	62.9937	3.7200e-003	7.7000e-004	63.3157
Total		**62.9937**	**3.7200e-003**	**7.7000e-004**	**63.3157**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	282472	62.9937	3.7200e-003	7.7000e-004	63.3157
Total		**62.9937**	**3.7200e-003**	**7.7000e-004**	**63.3157**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1654	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Unmitigated	0.1654	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.1654**	**0.0000**	**3.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.1654**	**0.0000**	**3.4000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.2085	0.0383	9.3000e-004	4.4433
Unmitigated	3.2085	0.0383	9.3000e-004	4.4433

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.16895 / 1.82836	3.2085	0.0383	9.3000e-004	4.4433
Total		**3.2085**	**0.0383**	**9.3000e-004**	**4.4433**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.16895 / 1.82836	3.2085	0.0383	9.3000e-004	4.4433
Total		**3.2085**	**0.0383**	**9.3000e-004**	**4.4433**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.9849	0.4128	0.0000	17.3048
Unmitigated	6.9849	0.4128	0.0000	17.3048

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	34.41	6.9849	0.4128	0.0000	17.3048
Total		**6.9849**	**0.4128**	**0.0000**	**17.3048**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	34.41	6.9849	0.4128	0.0000	17.3048
Total		**6.9849**	**0.4128**	**0.0000**	**17.3048**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park - Existing Library (2018)

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	37.36	1000sqft	0.86	37,364.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	523.94	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing 37,364-square-foot Pleasant Hill Library

Land Use - Existing 37,364-square-foot Pleasant Hill Library

Construction Phase - Existing library operations

Off-road Equipment - Existing library operations

Trips and VMT - Operations only

Vehicle Trips - Trip rates for the existing library consistent with those presented in the project-specific transportation impact assessment.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	1.00
tblLandUse	LandUseSquareFeet	37,360.00	37,364.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00

tblProjectCharacteristics	CO2IntensityFactor	641.35	523.94
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblVehicleTrips	ST_TR	46.55	33.99
tblVehicleTrips	SU_TR	25.49	33.99
tblVehicleTrips	WD_TR	56.24	40.15

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1654	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	116.4796	116.4796	4.6600e-003	1.6700e-003	117.0948
Mobile	0.4587	1.8236	4.6892	0.0119	0.9083	0.0141	0.9224	0.2438	0.0133	0.2571	0.0000	1,083.6144	1,083.6144	0.0508	0.0000	1,084.8833
Waste						0.0000	0.0000		0.0000	0.0000	6.9849	0.0000	6.9849	0.4128	0.0000	17.3048
Water						0.0000	0.0000		0.0000	0.0000	0.3709	3.0240	3.3949	0.0383	9.3000e-004	4.6297
Total	**0.6291**	**1.8689**	**4.7277**	**0.0121**	**0.9083**	**0.0175**	**0.9258**	**0.2438**	**0.0167**	**0.2605**	**7.3558**	**1,203.1187**	**1,210.4744**	**0.5065**	**2.6000e-003**	**1,223.9133**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1654	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Energy	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	116.4796	116.4796	4.6600e-003	1.6700e-003	117.0948
Mobile	0.4587	1.8236	4.6892	0.0119	0.9083	0.0141	0.9224	0.2438	0.0133	0.2571	0.0000	1,083.6144	1,083.6144	0.0508	0.0000	1,084.8833
Waste						0.0000	0.0000		0.0000	0.0000	6.9849	0.0000	6.9849	0.4128	0.0000	17.3048

Water						0.0000	0.0000		0.0000	0.0000	0.3709	3.0240	3.3949	0.0383	9.3000e-004	4.6297
Total	**0.6291**	**1.8689**	**4.7277**	**0.0121**	**0.9083**	**0.0175**	**0.9258**	**0.2438**	**0.0167**	**0.2605**	**7.3558**	**1,203.1187**	**1,210.4744**	**0.5065**	**2.6000e-003**	**1,223.9133**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4587	1.8236	4.6892	0.0119	0.9083	0.0141	0.9224	0.2438	0.0133	0.2571	0.0000	1,083.6144	1,083.6144	0.0508	0.0000	1,084.8833
Unmitigated	0.4587	1.8236	4.6892	0.0119	0.9083	0.0141	0.9224	0.2438	0.0133	0.2571	0.0000	1,083.6144	1,083.6144	0.0508	0.0000	1,084.8833

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	1,500.00	1,269.87	1269.87	2,430,849	2,430,849
Total	1,500.00	1,269.87	1,269.87	2,430,849	2,430,849

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.564894	0.042680	0.188343	0.132830	0.020067	0.005185	0.010669	0.022441	0.001545	0.001931	0.005633	0.002784	0.000998

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.1309	67.1309	3.7200e-003	7.7000e-004	67.4529
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.1309	67.1309	3.7200e-003	7.7000e-004	67.4529
NaturalGas Mitigated	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
NaturalGas Unmitigated	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	924759	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
Total		**4.9900e-003**	**0.0453**	**0.0381**	**2.7000e-004**		**3.4500e-003**	**3.4500e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**49.3487**	**49.3487**	**9.5000e-004**	**9.0000e-004**	**49.6419**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	924759	4.9900e-003	0.0453	0.0381	2.7000e-004		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	49.3487	49.3487	9.5000e-004	9.0000e-004	49.6419
Total		**4.9900e-003**	**0.0453**	**0.0381**	**2.7000e-004**		**3.4500e-003**	**3.4500e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**49.3487**	**49.3487**	**9.5000e-004**	**9.0000e-004**	**49.6419**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	282472	67.1309	3.7200e-003	7.7000e-004	67.4529

Total		**67.1309**	**3.7200e-003**	**7.7000e-004**	**67.4529**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	282472	67.1309	3.7200e-003	7.7000e-004	67.4529
Total		**67.1309**	**3.7200e-003**	**7.7000e-004**	**67.4529**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1654	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Unmitigated	0.1654	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.1654**	**0.0000**	**3.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-005	0.0000	3.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	6.7000e-004	6.7000e-004	0.0000	0.0000	7.1000e-004
Total	**0.1654**	**0.0000**	**3.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**6.7000e-004**	**6.7000e-004**	**0.0000**	**0.0000**	**7.1000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.3949	0.0383	9.3000e-004	4.6297
Unmitigated	3.3949	0.0383	9.3000e-004	4.6297

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.16895 / 1.82836	3.3949	0.0383	9.3000e-004	4.6297
Total		**3.3949**	**0.0383**	**9.3000e-004**	**4.6297**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.16895 / 1.82836	3.3949	0.0383	9.3000e-004	4.6297
Total		**3.3949**	**0.0383**	**9.3000e-004**	**4.6297**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.9849	0.4128	0.0000	17.3048
Unmitigated	6.9849	0.4128	0.0000	17.3048

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	34.41	6.9849	0.4128	0.0000	17.3048
Total		**6.9849**	**0.4128**	**0.0000**	**17.3048**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	34.41	6.9849	0.4128	0.0000	17.3048
Total		**6.9849**	**0.4128**	**0.0000**	**17.3048**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Oak Park Project

Unmitigated

Estimation of Annual Onsite Construction DPM Emissions as PM2.5 Exhaust

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	average hours/day

Size of the Construction area source: 68902.72 sq-meters

	Onsite Construction Activity	**Onsite (tons)**
Demolition Phase	Demolition	1.6700E-02
Phase I	Site Preparation	9.2400E-02
Phase I	Site Preparation	3.7400E-02
Phase I	Paving	2.0800E-03
Phase I	Grading	8.7000E-02
Phase II	Paving	6.9300E-03
Phase II	Building Construction	8.6100E-02
Phase II	Building Construction	4.0100E-02
Phase II	Architectural Coating	9.4000E-04
Phase III	Site Preparation	4.7000E-03
Phase III	Building Construction	1.3500E-02
Phase III	Architectural Coating	4.7000E-04
Phase III	Paving	8.7300E-03

Total	3.971E-01	tons
Average Emission	3.605E+05	grams
	6.009E+02	grams/day
	1.628E-02	grams/sec
	2.363E-07	grams/m2-sec

Oak Park Project

Unmitigated

Estimation of Annual Onsite Construction DPM Emissions as PM2.5 Total (Exhaust + Fugitive Dust)

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	average hours/day

Size of the Construction area source: 68902.72 sq-meters

	Onsite Construction Activity	**Onsite (tons)**
Demolition Phase	Demolition	2.7600E-02
Phase I	Site Preparation	2.8010E-01
Phase I	Site Preparation	1.2010E-01
Phase I	Paving	2.0800E-03
Phase I	Grading	1.5740E-01
Phase II	Paving	6.9300E-03
Phase II	Building Construction	8.6100E-02
Phase II	Building Construction	4.0100E-02
Phase II	Architectural Coating	9.4000E-04
Phase III	Site Preparation	1.5900E-02
Phase III	Building Construction	1.3500E-02
Phase III	Architectural Coating	4.7000E-04
Phase III	Paving	8.7300E-03

Total	7.600E-01	tons
Average Emission	6.900E+05	grams
	1.150E+03	grams/day
	3.117E-02	grams/sec
	4.523E-07	grams/m2-sec

Oak Park Project

Tier III Mitigated

Estimation of Annual Onsite Construction DPM Emissions as PM2.5 Exhaust

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	average hours/day

Size of the Construction area source: 68902.72 sq-meters

	Onsite Construction Activity	**Onsite (tons)**
Demolition Phase	Demolition	1.6700E-02
Phase I	Site Preparation	3.9700E-02
Phase I	Site Preparation	1.7500E-02
Phase I	Paving	1.8300E-03
Phase I	Grading	5.6500E-02
Phase II	Paving	6.0900E-03
Phase II	Building Construction	7.2800E-02
Phase II	Building Construction	3.9000E-02
Phase II	Architectural Coating	9.5000E-04
Phase III	Site Preparation	2.3700E-03
Phase III	Building Construction	1.3100E-02
Phase III	Architectural Coating	4.8000E-04
Phase III	Paving	8.5300E-03
Total		2.756E-01 tons

Average Emission	2.502E+05	grams
	4.170E+02	grams/day
	1.130E-02	grams/sec
	1.640E-07	grams/m2-sec

Oak Park Project

Tier IV Interim Mitigated

Estimation of Annual Onsite Construction DPM Emissions as PM2.5 Exhaust

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	average hours/day

Size of the Construction area source: 68902.72 sq-meters

	Onsite Construction Activity	**Onsite (tons)**
Demolition Phase	Demolition	1.6700E-02
Phase I	Site Preparation	2.6100E-03
Phase I	Site Preparation	1.1500E-03
Phase I	Paving	1.1000E-04
Phase I	Grading	4.4200E-03
Phase II	Paving	3.7000E-04
Phase II	Building Construction	1.0200E-02
Phase II	Building Construction	4.9800E-03
Phase II	Architectural Coating	4.0000E-05
Phase III	Site Preparation	1.6000E-04
Phase III	Building Construction	1.6800E-03
Phase III	Architectural Coating	2.0000E-05
Phase III	Paving	5.2000E-04
Total		4.296E-02 tons

Average Emission	3.901E+04	grams
	6.501E+01	grams/day
	1.762E-03	grams/sec
	2.557E-08	grams/m2-sec

Oak Park Project

Tier IV Interim Mitigated

Estimation of Annual Onsite Construction DPM Emissions as PM2.5 Total (Exhaust + Fugitive Dust)

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	average hours/day

Size of the Construction area source: 68902.72 sq-meters

	Onsite Construction Activity	**Onsite (tons)**
Demolition Phase	Demolition	2.760E-02
Phase I	Site Preparation	1.903E-01
Phase I	Site Preparation	8.390E-02
Phase I	Paving	1.100E-04
Phase I	Grading	7.480E-02
Phase II	Paving	3.700E-04
Phase II	Building Construction	1.020E-02
Phase II	Building Construction	4.980E-03
Phase II	Architectural Coating	4.000E-05
Phase III	Site Preparation	1.130E-02
Phase III	Building Construction	1.680E-03
Phase III	Architectural Coating	2.000E-05
Phase III	Paving	5.200E-04
Total		4.058E-01 tons

Average Emission	3.685E+05	grams
	6.141E+02	grams/day
	1.664E-02	grams/sec
	2.415E-07	grams/m2-sec

Oak Park Project

Estimation of Annual Offsite Construction DPM Emissions (No Mitigation) as PM2.5 Exhaust

Start of Construction	9/2/2019	
End of Construction	7/31/2021	
Number of Workdays	600	(6 days per week)
Construction Schedule	10.25	hours/day

Size of the Construction area source: **68902.72 sq-meters**

PM2.5 (Exhaust)	Demolition	Site Preparation	Site Preparation	Paving	Grading	Paving	Building Construction	Building Construction	Architectural Coating	Site Preparation	Building Construction	Architectural Coating	Paving	**Total (tons)**
Haul (tons)	8.700E-04	5.700E-04	2.000E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Vendor (tons)	0.000E+00	2.300E-04	6.000E-05	1.000E-05	1.500E-04	3.000E-05	2.250E-03	4.800E-04	1.000E-05	0.000E+00	2.000E-05	1.000E-05	2.000E-05	
Worker (tons)	4.000E-05	1.800E-04	8.000E-05	1.000E-05	1.800E-04	4.000E-05	3.400E-04	1.800E-04	4.000E-05	1.000E-05	6.000E-05	2.000E-05	6.000E-05	
Total (tons)	9.100E-04	9.800E-04	3.400E-04	2.000E-05	3.300E-04	7.000E-05	2.590E-03	6.600E-04	5.000E-05	1.000E-05	8.000E-05	3.000E-05	8.000E-05	6.150E-03

	Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total	1.640E-03	3.270E-03	1.240E-03	6.150E-03

Average Emissions				
Grams	1.489E+03	2.969E+03	1.126E+03	
Grams/day	2.482E+00	4.949E+00	1.877E+00	
Grams/sec	6.726E-05	1.341E-04	5.085E-05	
Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	

Vehicle Travel Distances in the Construction HRA (miles)

Road Segment 1 (mi)	0.51	0.51	0.51	miles

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total (g/sec)**
Road Segment 1 (mi)	1.725E-06	9.424E-06	2.416E-06	1.357E-05

Estimation of Annual Offsite Construction Total PM2.5 (No Mitigation)

PM2.5 (Total)	Demolition	Site Preparation	Site Preparation	Paving	Grading	Paving	Building Construction	Building Construction	Architectural Coating	Site Preparation	Building Construction	Architectural Coating	Paving	**Total (tons)**
Haul (tons)	4.310E-03	3.520E-03	2.720E-03	0.000E+00	0.000E+00	0.000E+00	1.000E-05	1.000E-05	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
Vendor (tons)	0.000E+00	7.000E-04	2.700E-04	4.000E-05	6.400E-04	1.500E-04	9.890E-03	4.630E-03	1.300E-04	3.000E-05	1.900E-04	6.000E-05	1.800E-04	
Worker (tons)	1.810E-03	7.620E-03	3.350E-03	5.400E-04	7.890E-03	1.810E-03	1.490E-02	8.060E-03	1.810E-03	4.500E-04	2.720E-03	9.100E-04	2.540E-03	
Total (tons)	6.120E-03	1.180E-02	6.340E-03	5.800E-04	8.530E-03	1.960E-03	2.480E-02	1.270E-02	1.940E-03	4.800E-04	2.910E-03	9.700E-04	2.720E-03	8.185E-02

	Haul Truck (tons)	**Vendor Truck (tons)**	**Worker (tons)**	**Total (tons)**
Total	1.057E-02	1.691E-02	5.441E-02	8.189E-02

Average Emissions				
Grams	9.598E+03	1.535E+04	4.940E+04	
Grams/day	1.600E+01	2.559E+01	8.234E+01	
Grams/sec	4.335E-04	6.935E-04	2.231E-03	
Default Vehicle Travel Distance in CalEEMod	20	7.3	10.8	

Vehicle Travel Distances in the Construction HRA (miles)

Road Segment 1 (mi)	0.51	0.51	0.51	miles

Total Average Offsite Vehicle Emissions Along Travel Distance (g/sec)				**Total (g/sec)**
Road Segment 1 (mi)	1.112E-05	4.874E-05	1.060E-04	1.658E-04

Oak Park Risk Calculations based on OEHHA/BAAQMD Assumptions

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Infant
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)

Cancer Potency Factor: 1.1 (mg/kg-day)$^{-1}$
Exposure Frequency 350 days/year
Averaging Period 25550 days

Unmitigated
Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.168315254	10	361	0.85	0.25	1.9
1	0.168315254	10	1090	0.85	1.00	23.5
2	0.168315254	10	1090	0.85	0.66	15.6
					Total	41.0

Tier III
Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.116820347	10	361	0.85	0.25	1.4
1	0.116820347	10	1090	0.85	1.00	16.3
2	0.116820347	10	1090	0.85	0.66	10.8
					Total	28.5

Tier IV Interim
Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Cancer Risk (/million)
3rd Trimester	0.018242566	10	361	0.85	0.25	0.2
1	0.018242566	10	1090	0.85	1.00	2.5
2	0.018242566	10	1090	0.85	0.66	1.7
					Total	4.4

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Child
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)

Cancer Potency Fac 1.1 (mg/kg-day)$^{-1}$
Exposure Frequenc 350 days/year
Averaging Period 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.168315254	3	572	0.72	1.00	3.1
2	0.168315254	3	572	0.72	0.91	2.9
					Total	6.0

Tier III
Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.116820347	3	572	0.72	1.00	2.2
2	0.116820347	3	572	0.72	0.91	2.0
					Total	4.2

Tier IV Interim
Construction Annual DPM Emissions (as PM2.5 Exhaust) Mitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.018242566	3	572	0.72	1.00	0.3
2	0.018242566	3	572	0.72	0.91	0.3
					Total	0.6

Cancer Risk Impacts from Construction at the Maximum Impacted Sensitive Receptor - Adult
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)

Cancer Potency Fac 1.1 (mg/kg-day)$^{-1}$
Exposure Frequenc 350 days/year
Averaging Period 25550 days

Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.168315254	1	261	0.73	1.00	0.5
2	0.168315254	1	261	0.73	0.91	0.4
					Total	0.9

Tier III
Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.116820347	1	261	0.73	1.00	0.3
2	0.116820347	1	261	0.73	0.91	0.3
					Total	0.6

Tier IV Interim
Construction Annual DPM Emissions (as PM2.5 Exhaust) Unmitigated

Construction Year	Maximum DPM Concentration (ug/m3)	Age Sensitivity Factor	Daily Breathing Rate (L/kg-day)	Time At Home Factor	Exposure Duration (years)	Unit Risk Factor (ug/m3)$^{-1}$
1	0.018242566	1	261	0.73	1.00	0.1
2	0.018242566	1	261	0.73	0.91	0.0
					Total	0.1

Estimates of Chronic Non-Cancer Hazard Index (CNCHI)
Unmitigated
Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)
Reference Exposure Level (REL) for DPM: 5 ug/m3
CNCHI = DPM/REL

X (m)	Y (m)	Max DPM (ug/m3)	CNCHI
582116.96	4198962.41	0.168315254	0.033663051

Tier III
Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)
Reference Exposure Level (REL) for DPM: 5 ug/m3
CNCHI = DPM/REL

X (m)	Y (m)	Max DPM (ug/m3)	CNCHI
582116.96	4198962.41	0.116820347	0.023364069

Tier IV Interim
Chronic Non-Cancer Hazard Index at the Maximum Impacted Sensitive Receptor
UTM for the Oak Park Project MIR: (582116.96, 4198962.41)
Reference Exposure Level (REL) for DPM: 5 ug/m3
CNCHI = DPM/REL

X (m)	Y (m)	Max DPM (ug/m3)	CNCHI
582116.96	4198962.41	0.018242566	0.003648513

Unmitigated
Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Max PM2.5 (ug/m3)
582116.96	4198962.41	0.322514593

Tier IV Interim
Annual PM2.5 Total (Exhaust + Fugitive Dust)

X (m)	Y (m)	Max PM2.5 (ug/m3)
582116.96	4198962.41	0.172424953

Unmitigated

Annual Average Onsite DPM Exhaust Emission Rate (grams/m2/sec): 2.363E-07
Annual Average Offsite DPM Exhaust Emission Rate (grams/sec): 1.357E-05
MIR UTM = (582116.96, 4198962.41)

X	Y	Onsite Unit Emissions	Offsite Unit Emissions	Onsite Annual DPM Exhaust w/Actual Emissions	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
582116.96	4198962.41	712059.25	2.57903	1.683E-01	3.498E-05	1.683E-01
582106.21	4198934.93	705882.1743	3.36858	1.668E-01	4.569E-05	1.669E-01
582128.12	4198976.75	672916.0803	2.24198	1.590E-01	3.041E-05	1.591E-01
582134.71	4198990.12	650745.8291	1.9933	1.538E-01	2.704E-05	1.538E-01
581961.42	4199093.2	640005.5652	1.1694	1.513E-01	1.586E-05	1.513E-01
582117.36	4198932.93	634742.0126	3.34173	1.500E-01	4.533E-05	1.501E-01
582072.55	4198865.81	621447.1908	9.89488	1.469E-01	1.342E-04	1.470E-01
582056.81	4198850.27	617349.2675	16.81286	1.459E-01	2.281E-04	1.461E-01
582142.46	4199000.26	609302.1866	1.81844	1.440E-01	2.467E-05	1.440E-01
582125.44	4198926.15	577770.0205	3.50924	1.365E-01	4.760E-05	1.366E-01
582068.76	4198847.88	550765.7474	17.15201	1.302E-01	2.327E-04	1.304E-01
581980.59	4199093.2	532377.6618	1.13985	1.258E-01	1.546E-05	1.258E-01
582155.01	4199019.58	530987.0982	1.5454	1.255E-01	2.096E-05	1.255E-01
581961.42	4199106.81	527786.3288	1.00406	1.247E-01	1.362E-05	1.247E-01
582088.08	4198858.24	521131.5673	11.24567	1.232E-01	1.525E-04	1.233E-01
582143.45	4198921.18	493602.9311	3.56494	1.167E-01	4.836E-05	1.167E-01
581999.76	4199093.2	468487.4847	1.1094	1.107E-01	1.505E-05	1.107E-01
582135.13	4198890.23	457346.4279	5.28423	1.081E-01	7.168E-05	1.082E-01
581980.59	4199106.81	439380.5445	0.98756	1.038E-01	1.340E-05	1.039E-01
582172.73	4198955.64	437434.1984	2.46187	1.034E-01	3.340E-05	1.034E-01
582018.93	4199093.2	425858.5906	1.07905	1.006E-01	1.464E-05	1.007E-01
582166.56	4198925.56	424308.5325	3.28029	1.003E-01	4.450E-05	1.003E-01
582182.1	4198975.76	416716.1061	2.06206	9.848E-02	2.797E-05	9.851E-02
581961.42	4199120.42	416705.8703	0.87561	9.848E-02	1.188E-05	9.849E-02
582136.15	4198871.65	412006.2909	7.12863	9.737E-02	9.670E-05	9.747E-02
582047.05	4198810.5	398585.379	17.37809	9.420E-02	2.357E-04	9.443E-02
582038.1	4199093.2	398160.1669	1.05135	9.410E-02	1.426E-05	9.411E-02
581962.18	4198819.02	396918.4231	12.44667	9.380E-02	1.688E-04	9.397E-02
582182.49	4199026.35	390001.0678	1.41973	9.217E-02	1.926E-05	9.219E-02
581914.94	4198831.39	389362.4021	12.70718	9.202E-02	1.724E-04	9.219E-02
581999.76	4199106.81	384375.4516	0.9693	9.084E-02	1.315E-05	9.085E-02
581891.05	4198837.87	381103.3843	10.9214	9.007E-02	1.481E-04	9.021E-02
582134.88	4198854.84	377373.1546	10.2798	8.918E-02	1.394E-04	8.932E-02
582057.27	4199093.2	377425.6093	1.02603	8.920E-02	1.392E-05	8.921E-02
582076.44	4199093.2	358520.3554	1.00275	8.473E-02	1.360E-05	8.474E-02
581980.59	4199120.42	356697.6644	0.8673	8.430E-02	1.176E-05	8.431E-02
582018.93	4199106.81	347892.8364	0.95072	8.222E-02	1.290E-05	8.223E-02
582205.4	4198966.4	347049.0627	2.16693	8.202E-02	2.939E-05	8.205E-02
582202.81	4198943.09	344289.7674	2.65505	8.137E-02	3.602E-05	8.140E-02
582206.99	4198982.33	342264.687	1.9051	8.089E-02	2.584E-05	8.091E-02
582095.61	4199093.2	336852.8284	0.98077	7.961E-02	1.330E-05	7.962E-02
582158.3	4198856.12	333979.6574	9.33056	7.893E-02	1.266E-04	7.906E-02
582198.23	4199028.54	333902.8799	1.37489	7.891E-02	1.865E-05	7.893E-02
582190.67	4198892.48	327068.5475	4.69001	7.730E-02	6.362E-05	7.736E-02
581961.42	4199134.03	324272.8122	0.77373	7.664E-02	1.050E-05	7.665E-02
582038.1	4199106.81	323667.6774	0.9334	7.649E-02	1.266E-05	7.650E-02
581865.53	4198840.15	322579.701	5.3417	7.623E-02	7.246E-05	7.631E-02
581999.76	4199120.42	316174.6906	0.8565	7.472E-02	1.162E-05	7.473E-02
582212.57	4198924.77	313145.2739	3.1481	7.401E-02	4.270E-05	7.405E-02
582114.78	4199093.2	312072.6835	0.96042	7.375E-02	1.303E-05	7.376E-02
582190.07	4198875.41	307459.6528	6.0572	7.266E-02	8.217E-05	7.274E-02
582057.27	4199106.81	305364.1166	0.91717	7.217E-02	1.244E-05	7.218E-02
582177.65	4198856.63	302527.4012	8.85734	7.150E-02	1.202E-04	7.162E-02
582076.44	4199106.81	289189.7499	0.90176	6.834E-02	1.223E-05	6.836E-02
582018.93	4199120.42	287822.4173	0.84514	6.802E-02	1.146E-05	6.803E-02
581980.59	4199134.03	287204.6388	0.77046	6.787E-02	1.045E-05	6.789E-02
582040.66	4198789.3	282496.8594	7.88546	6.676E-02	1.070E-04	6.687E-02
582193.44	4198857.14	279667.3767	8.54799	6.609E-02	1.160E-04	6.621E-02
582224.32	4199026.15	272073.3369	1.36584	6.430E-02	1.853E-05	6.432E-02
582095.61	4199106.81	271883.94	0.88664	6.425E-02	1.203E-05	6.427E-02
582229.9	4198901.66	269362.1699	4.06551	6.366E-02	5.515E-05	6.371E-02
582038.1	4199120.42	268177.535	0.83445	6.338E-02	1.132E-05	6.339E-02
581841.92	4198842.06	262798.6494	2.77324	6.211E-02	3.762E-05	6.214E-02
582241.45	4198921.98	262286.2561	3.20022	6.199E-02	4.341E-05	6.203E-02
581852.15	4199116.71	262287.5198	0.71507	6.199E-02	9.700E-06	6.200E-02
582227.31	4198884.53	260629.2797	5.14461	6.159E-02	6.979E-05	6.166E-02
581999.76	4199134.03	259815.8791	0.76449	6.140E-02	1.037E-05	6.141E-02
582131.18	4198799.38	255964.0245	19.25391	6.049E-02	2.612E-04	6.075E-02
581961.42	4199147.64	254876.9752	0.69099	6.023E-02	9.373E-06	6.024E-02
582114.78	4199106.81	253219.0777	0.87218	5.984E-02	1.183E-05	5.985E-02
582057.27	4199120.42	252954.6609	0.82427	5.978E-02	1.118E-05	5.979E-02
582250.61	4198981.93	251254.5384	1.85256	5.938E-02	2.513E-05	5.940E-02
582254	4198965	249537.0259	2.12399	5.897E-02	2.881E-05	5.900E-02
582255.59	4198940.9	246092.3511	2.63324	5.816E-02	3.572E-05	5.819E-02
582230.9	4198868.6	243275.1275	6.71864	5.749E-02	9.114E-05	5.758E-02
582251.21	4198902.86	240606.973	4.00375	5.686E-02	5.431E-05	5.692E-02
581951.29	4198798.36	240341.8985	5.53985	5.680E-02	7.515E-05	5.687E-02
582076.44	4199120.42	239440.5182	0.81435	5.659E-02	1.105E-05	5.660E-02
582018.93	4199134.03	239233.1298	0.75769	5.654E-02	1.028E-05	5.655E-02
581840.53	4199116.71	237767.4642	0.67427	5.619E-02	9.147E-06	5.620E-02
582207.19	4199070.57	236312.0193	1.0324	5.585E-02	1.400E-05	5.586E-02
581980.59	4199147.64	231694.9105	0.69105	5.476E-02	9.374E-06	5.477E-02
582245.44	4199029.54	230308.1118	1.31526	5.443E-02	1.784E-05	5.445E-02
582246.43	4198870.99	227455.3336	6.48378	5.375E-02	8.795E-05	5.384E-02
582095.61	4199120.42	225525.3417	0.80423	5.330E-02	1.091E-05	5.331E-02
582228.31	4198843.3	224126.0607	12.12017	5.297E-02	1.644E-04	5.313E-02
582038.1	4199134.03	224106.8757	0.75122	5.296E-02	1.019E-05	5.297E-02
582162.52	4198792.6	219040.7863	16.5484	5.177E-02	2.245E-04	5.199E-02
582030.7	4198772.45	215725.0649	4.96558	5.098E-02	6.736E-05	5.105E-02
582195.44	4199088.69	215470.109	0.92732	5.092E-02	1.258E-05	5.093E-02
581999.76	4199147.64	213836.8406	0.68832	5.054E-02	9.337E-06	5.055E-02
581828.91	4199116.71	213162.2553	0.63608	5.038E-02	8.628E-06	5.039E-02
582057.27	4199134.03	211937.0841	0.745	5.009E-02	1.011E-05	5.010E-02
582085.61	4198769.38	211488.6719	6.00879	4.998E-02	8.151E-05	5.006E-02
582114.78	4199120.42	211207.3419	0.7942	4.991E-02	1.077E-05	4.993E-02
582246.23	4198845.69	209269.8294	11.63954	4.946E-02	1.579E-04	4.961E-02
582282.28	4198923.37	209474.6475	3.16496	4.950E-02	4.293E-05	4.955E-02
582282.88	4198965.6	209390.3595	2.099	4.949E-02	2.847E-05	4.951E-02
582279.7	4198984.12	208841.0274	1.80252	4.936E-02	2.445E-05	4.938E-02
582284.48	4198944.09	208769.9777	2.55247	4.934E-02	3.462E-05	4.937E-02
582264.56	4199028.54	203804.1953	1.31004	4.816E-02	1.777E-05	4.818E-02
582285.07	4198902.66	201945.9798	4.09	4.773E-02	5.548E-05	4.778E-02
582183.8	4198789.79	201011.518	15.72029	4.750E-02	2.132E-04	4.772E-02
582076.44	4199134.03	201111.8209	0.73881	4.753E-02	1.002E-05	4.754E-02
582018.93	4199147.64	199508.4617	0.68452	4.715E-02	9.286E-06	4.716E-02
582154.56	4198776.7	198947.3474	9.31099	4.702E-02	1.263E-04	4.714E-02
582237.27	4199070.77	193884.6843	1.01073	4.582E-02	1.371E-05	4.583E-02
581820.59	4198842.82	193395.3653	1.70626	4.570E-02	2.315E-05	4.573E-02
582282.09	4198866.41	190512.2528	7.50107	4.502E-02	1.018E-04	4.513E-02
582095.61	4199134.03	190111.3696	0.73221	4.493E-02	9.932E-06	4.494E-02
581817.29	4199116.71	188899.4644	0.59848	4.464E-02	8.118E-06	4.465E-02
582038.1	4199147.64	188487.8638	0.68079	4.455E-02	9.235E-06	4.455E-02
582281.69	4199026.55	184808.3268	1.31746	4.368E-02	1.787E-05	4.369E-02
582281.49	4198845.09	180109.687	13.1704	4.257E-02	1.787E-04	4.274E-02
582057.27	4199147.64	179209.4143	0.67716	4.235E-02	9.186E-06	4.236E-02
582114.78	4199134.03	178983.4389	0.72544	4.230E-02	9.841E-06	4.231E-02
582072.84	4198754.32	178364.912	4.19791	4.215E-02	5.694E-05	4.221E-02
582076.44	4199147.64	170715.5147	0.67346	4.035E-02	9.136E-06	4.035E-02
581852.15	4199139.71	170648.2517	0.58714	4.033E-02	7.965E-06	4.034E-02
582023.81	4198756.61	170464.2019	3.48082	4.029E-02	4.722E-05	4.033E-02
582245.07	4198793.53	168997.4134	17.50002	3.994E-02	2.374E-04	4.018E-02

582321.32	4198901.66	169231.5234	4.34173	3.999E-02	5.890E-05	4.005E-02
582324.71	4198924.57	168756.918	3.21175	3.988E-02	4.357E-05	3.993E-02
582324.51	4198944.88	168735.3257	2.5654	3.988E-02	3.480E-05	3.991E-02
582324.91	4198964.4	166305.1459	2.12674	3.930E-02	2.885E-05	3.933E-02
581805.67	4199116.71	165844.905	0.56035	3.919E-02	7.601E-06	3.920E-02
581936.16	4198781.56	163616.1449	3.24024	3.867E-02	4.395E-05	3.871E-02
581897.6	4198797.8	161986.0986	3.23281	3.828E-02	4.385E-05	3.833E-02
582095.61	4199147.64	162076.9392	0.6693	3.830E-02	9.079E-06	3.831E-02
582250.61	4199086.9	160794.3322	0.90812	3.800E-02	1.232E-05	3.801E-02
582333.87	4198901.06	159590.409	4.47456	3.772E-02	6.070E-05	3.778E-02
582154.8	4198748.87	159555.391	4.96873	3.771E-02	6.740E-05	3.777E-02
582329.49	4198986.12	157654.8394	1.76407	3.726E-02	2.393E-05	3.728E-02
582322.52	4199007.83	156113.9457	1.48962	3.689E-02	2.021E-05	3.691E-02
582195.72	4198754.95	154929.2745	6.04447	3.661E-02	8.199E-05	3.670E-02
582285.67	4199062.4	154530.4319	1.03874	3.652E-02	1.409E-05	3.653E-02
582114.78	4199147.64	153349.2864	0.66484	3.624E-02	9.019E-06	3.625E-02
582214.56	4199115.38	152287.222	0.77913	3.599E-02	1.057E-05	3.600E-02
582242.73	4198770.15	151307.7997	8.58585	3.576E-02	1.165E-04	3.587E-02
581840.53	4199139.71	151378.0324	0.56	3.578E-02	7.596E-06	3.578E-02
582344.43	4198888.52	150358.8621	5.66894	3.553E-02	7.690E-05	3.561E-02
582321.92	4199029.74	146718.2495	1.27204	3.467E-02	1.726E-05	3.469E-02
582252.02	4199100.18	145439.3917	0.83784	3.437E-02	1.137E-05	3.438E-02
581794.05	4199116.71	143161.478	0.52398	3.383E-02	7.108E-06	3.384E-02
582058.54	4198735.67	142008.2394	2.879	3.356E-02	3.905E-05	3.360E-02
581871.63	4198803.21	142003.646	2.61727	3.356E-02	3.550E-05	3.360E-02
582166.04	4198733.63	139593.3756	3.91505	3.299E-02	5.311E-05	3.304E-02
582287.07	4199082.32	137700.2586	0.91758	3.254E-02	1.245E-05	3.256E-02
582134.89	4198728.01	136683.0656	3.32656	3.230E-02	4.512E-05	3.235E-02
581828.91	4199139.71	135161.6859	0.53443	3.194E-02	7.250E-06	3.195E-02
582324.71	4199048.46	134804.1165	1.11862	3.186E-02	1.517E-05	3.187E-02
582016.4	4198739.5	133734.332	2.50821	3.161E-02	3.402E-05	3.164E-02
582377.29	4198942.89	131400.8654	2.71683	3.105E-02	3.685E-05	3.109E-02
582380.08	4198923.17	130739.1378	3.49208	3.090E-02	4.737E-05	3.094E-02
582377.29	4198961.42	129226.0805	2.2242	3.054E-02	3.017E-05	3.057E-02
582197.96	4198728.27	129013.9319	3.80463	3.049E-02	5.161E-05	3.054E-02
582224.32	4199129.93	128784.2317	0.71231	3.044E-02	9.663E-06	3.045E-02
582255.59	4199115.19	127989.0286	0.76595	3.025E-02	1.039E-05	3.026E-02
582239.22	4198737.41	127442.4839	4.55814	3.012E-02	6.183E-05	3.018E-02
582091.3	4199172.08	124568.3254	0.57515	2.944E-02	7.802E-06	2.945E-02
582371.72	4199002.45	123906.9612	1.54059	2.928E-02	2.090E-05	2.930E-02
581852.15	4199162.71	123928.2725	0.49564	2.929E-02	6.723E-06	2.929E-02
581782.43	4199116.71	121795.4168	0.48913	2.878E-02	6.635E-06	2.879E-02
582322.72	4199074.15	121617.7031	0.94975	2.874E-02	1.288E-05	2.875E-02
581817.29	4199139.71	121050.718	0.50884	2.861E-02	6.902E-06	2.861E-02
581843.82	4198809.68	120408.8645	1.89111	2.846E-02	2.565E-05	2.848E-02
582368.73	4199020.97	119976.9633	1.33663	2.835E-02	1.813E-05	2.837E-02
582263.08	4198732.96	118693.1	4.26897	2.805E-02	5.791E-05	2.811E-02
582117.7	4199172.08	117565.1024	0.57321	2.778E-02	7.776E-06	2.779E-02
582287.66	4199111	115328.5804	0.7742	2.726E-02	1.050E-05	2.727E-02
582117.27	4198707.84	114534.8312	2.37848	2.707E-02	3.226E-05	2.710E-02
582293.95	4198732.73	111294.5855	4.20712	2.630E-02	5.707E-05	2.636E-02
582048.58	4198714.99	111217.3459	2.04909	2.628E-02	2.780E-05	2.631E-02
582371.72	4199043.28	110602.3504	1.13878	2.614E-02	1.545E-05	2.615E-02
582323.32	4199092.48	110592.3514	0.84959	2.614E-02	1.152E-05	2.615E-02
582144.1	4199172.08	110550.8612	0.57111	2.613E-02	7.747E-06	2.613E-02
582006.7	4198726.23	110242.1783	1.96646	2.605E-02	2.668E-05	2.608E-02
581840.53	4199162.71	109819.7719	0.47626	2.595E-02	6.460E-06	2.596E-02
582408.17	4198983.33	109258.3567	1.80725	2.582E-02	2.452E-05	2.585E-02
582418.53	4198950.66	109190.8797	2.54329	2.580E-02	3.450E-05	2.584E-02
581805.67	4199139.71	108291.9996	0.4831	2.559E-02	6.553E-06	2.560E-02
581925.09	4198758.68	107850.9811	1.9937	2.549E-02	2.704E-05	2.552E-02
582427.69	4198910.23	107361.5674	4.62474	2.537E-02	6.273E-05	2.544E-02
582373.7	4198769.21	104915.6845	6.30847	2.479E-02	8.557E-05	2.488E-02
582325.05	4198733.66	104459.7186	4.14501	2.469E-02	5.623E-05	2.474E-02
582407.17	4199008.22	104503.6652	1.4578	2.470E-02	1.978E-05	2.472E-02
581792.02	4198847.39	104013.0848	1.10951	2.458E-02	1.505E-05	2.460E-02
582372.12	4199060.61	103838.006	1.01389	2.454E-02	1.375E-05	2.455E-02
582170.5	4199172.08	103608.1863	0.56871	2.449E-02	7.715E-06	2.449E-02
582164	4198693.79	103281.9147	2.23941	2.441E-02	3.038E-05	2.444E-02
582270.93	4199137.1	102966.1334	0.67244	2.433E-02	9.122E-06	2.434E-02
582434.86	4198946.68	102541.6484	2.68454	2.423E-02	3.642E-05	2.427E-02
582237.07	4199152.23	102554.0556	0.62542	2.424E-02	8.484E-06	2.424E-02
582187.49	4198692.77	101954.9896	2.31554	2.409E-02	3.141E-05	2.413E-02
581770.81	4199116.71	101869.8576	0.45797	2.407E-02	6.212E-06	2.408E-02
582286.87	4199130.52	101828.5999	0.69333	2.407E-02	9.405E-06	2.407E-02
582444.02	4198909.43	100750.7194	4.8157	2.381E-02	6.533E-05	2.388E-02
582360.83	4198740.21	98622.32268	4.29626	2.331E-02	5.828E-05	2.337E-02
581828.91	4199162.71	98617.1648	0.458	2.331E-02	6.213E-06	2.331E-02
582408.57	4199030.33	98302.23213	1.22816	2.323E-02	1.666E-05	2.325E-02
582243.82	4198693.19	97946.67739	2.50562	2.315E-02	3.399E-05	2.318E-02
582368.73	4199081.32	96857.55929	0.8905	2.289E-02	1.208E-05	2.290E-02
582323.52	4199116.78	96826.13951	0.73776	2.288E-02	1.001E-05	2.289E-02
581794.05	4199139.71	96339.47602	0.45827	2.277E-02	6.216E-06	2.277E-02
582000.57	4198716.27	96197.43071	1.6733	2.273E-02	2.270E-05	2.276E-02
582456.17	4198951.86	93811.56367	2.51486	2.217E-02	3.411E-05	2.220E-02
581852.15	4199185.71	93325.07684	0.42605	2.206E-02	5.779E-06	2.206E-02
582273.18	4198689.63	92876.87416	2.44902	2.195E-02	3.322E-05	2.198E-02
582409.36	4199048.86	92923.5526	1.07592	2.196E-02	1.459E-05	2.198E-02
582091.3	4199200.93	92633.45535	0.48836	2.189E-02	6.625E-06	2.190E-02
582469.91	4198913.02	91318.09686	4.58055	2.158E-02	6.214E-05	2.164E-02
582103.48	4198683.32	91434.32813	1.69066	2.161E-02	2.293E-05	2.163E-02
582454.98	4198982.7	90440.54137	1.79045	2.137E-02	2.429E-05	2.140E-02
582414.64	4198754.36	90084.57337	4.62007	2.129E-02	6.267E-05	2.135E-02
581817.29	4199162.71	89210.20791	0.43961	2.108E-02	5.963E-06	2.109E-02
582117.7	4199200.93	88758.80358	0.48834	2.098E-02	6.624E-06	2.098E-02
582249.62	4199166.77	88223.88475	0.57596	2.085E-02	7.813E-06	2.086E-02
582322.92	4199133.91	87891.03959	0.67071	2.077E-02	9.098E-06	2.078E-02
582369.93	4199103.43	87387.75722	0.77934	2.065E-02	1.057E-05	2.066E-02
582299.62	4198683.62	87122.12631	2.29821	2.059E-02	3.118E-05	2.062E-02
582453.98	4199007.6	86644.4263	1.42825	2.048E-02	1.937E-05	2.050E-02
582034.02	4198693.79	86199.3294	1.48638	2.037E-02	2.016E-05	2.039E-02
582417.92	4198740.33	85935.24551	3.87443	2.031E-02	5.256E-05	2.036E-02
582335.68	4198692.34	85961.0936	2.5123	2.032E-02	3.408E-05	2.035E-02
582406.18	4199075.75	85712.55621	0.90325	2.026E-02	1.225E-05	2.027E-02
581818.3	4198808.54	85673.11526	1.24997	2.025E-02	1.696E-05	2.026E-02
581782.43	4199139.71	85326.89711	0.43375	2.017E-02	5.884E-06	2.017E-02
581759.19	4199116.71	85051.39488	0.42876	2.010E-02	5.816E-06	2.011E-02
582488.24	4198930.94	84637.22645	3.30744	2.000E-02	4.487E-05	2.005E-02
582144.1	4199200.93	84632.94228	0.488	2.000E-02	6.620E-06	2.001E-02
581840.53	4199185.71	84126.47726	0.41164	1.988E-02	5.584E-06	1.989E-02
582142.81	4198666.73	83569.81831	1.56908	1.975E-02	2.128E-05	1.977E-02
582367.52	4198697.75	83135.1706	2.6103	1.965E-02	3.541E-05	1.968E-02
582427.51	4198731.68	81952.67644	3.45759	1.937E-02	4.690E-05	1.941E-02
582455.38	4199029.71	81973.0934	1.19586	1.937E-02	1.622E-05	1.939E-02
582492.33	4198956.98	81459.69743	2.29278	1.925E-02	3.110E-05	1.928E-02
581805.67	4199162.71	80908.30568	0.42122	1.912E-02	5.714E-06	1.913E-02
582192.09	4198657.79	80433.53138	1.57704	1.901E-02	2.139E-05	1.903E-02
582170.5	4199200.93	80399.27725	0.48731	1.900E-02	6.610E-06	1.901E-02
582489.73	4198976.77	80139.82149	1.84123	1.894E-02	2.498E-05	1.896E-02
582444.11	4198734.72	79449.27774	3.46212	1.878E-02	4.696E-05	1.882E-02
582369.73	4199122.95	79559.44431	0.69716	1.880E-02	9.457E-06	1.881E-02
581991.38	4198701.2	78916.38807	1.34013	1.865E-02	1.818E-05	1.867E-02
582129.43	4199211.68	78886.4537	0.46173	1.864E-02	6.263E-06	1.865E-02
581913.65	4198739.67	78609.43557	1.42412	1.858E-02	1.932E-05	1.860E-02
582397.57	4198696.24	78157.92683	2.50444	1.847E-02	3.397E-05	1.850E-02
582285.67	4199170.96	77807.00646	0.55792	1.839E-02	7.568E-06	1.840E-02
582407.37	4199100.05	77576.23723	0.77808	1.833E-02	1.055E-05	1.834E-02
582232.49	4198652.28	77526.47916	1.58205	1.832E-02	2.146E-05	1.834E-02
582453.25	4199054.4	77349.01366	1.0035	1.828E-02	1.361E-05	1.829E-02

582145.76	4199211.68	76768.72245	0.46169	1.814E-02	6.263E-06	1.815E-02
582491.68	4198999.16	76668.09504	1.48017	1.812E-02	2.008E-05	1.814E-02
581828.91	4199185.71	76540.58454	0.39804	1.809E-02	5.399E-06	1.809E-02
582321.72	4199157.81	76408.48919	0.5902	1.806E-02	8.006E-06	1.807E-02
581986.74	4199228.27	76315.45162	0.41452	1.804E-02	5.623E-06	1.804E-02
581770.81	4199139.71	75419.71213	0.40915	1.782E-02	5.550E-06	1.783E-02
582162.09	4199211.68	74597.01556	0.46151	1.763E-02	6.260E-06	1.764E-02
581874.14	4198759.36	74468.90045	1.37522	1.760E-02	1.865E-05	1.762E-02
582489.73	4199018.94	74194.24191	1.25502	1.753E-02	1.702E-05	1.755E-02
581959.42	4199230.22	74224.75386	0.40266	1.754E-02	5.462E-06	1.755E-02
582426.71	4198694.14	73383.85303	2.38016	1.734E-02	3.229E-05	1.738E-02
581794.05	4199162.71	73364.35693	0.40295	1.734E-02	5.466E-06	1.734E-02
582452.99	4199075.13	72577.53432	0.87583	1.715E-02	1.188E-05	1.716E-02
581932.1	4199230.22	72527.40787	0.38957	1.714E-02	5.285E-06	1.715E-02
582178.42	4199211.68	72404.53234	0.46119	1.711E-02	6.256E-06	1.712E-02
582087.14	4198657.53	71772.74588	1.2248	1.696E-02	1.661E-05	1.698E-02
581747.57	4199116.71	71544.09542	0.40151	1.691E-02	5.446E-06	1.691E-02
582372.12	4199143.27	71343.51703	0.62316	1.686E-02	8.453E-06	1.687E-02
582057.48	4199232.66	70867.37935	0.41373	1.675E-02	5.612E-06	1.675E-02
581852.15	4199208.71	70760.72407	0.37129	1.672E-02	5.037E-06	1.673E-02
582407.97	4199122.75	70236.80065	0.68262	1.660E-02	9.260E-06	1.661E-02
582194.75	4199211.68	70220.06544	0.46071	1.660E-02	6.250E-06	1.660E-02
582490.71	4199041.33	70175.01203	1.05798	1.658E-02	1.435E-05	1.660E-02
581817.29	4199185.71	70071.83688	0.3843	1.656E-02	5.213E-06	1.657E-02
582022.79	4198673.88	68892.06187	1.15048	1.628E-02	1.561E-05	1.630E-02
582456.75	4198691.44	68608.94287	2.24183	1.621E-02	3.041E-05	1.624E-02
582285.87	4199189.48	68401.12655	0.50754	1.617E-02	6.885E-06	1.617E-02
582211.08	4199211.68	68062.77276	0.46006	1.609E-02	6.241E-06	1.609E-02
582188.52	4198632	67887.59595	1.21563	1.604E-02	1.649E-05	1.606E-02
582129.43	4199229.01	67800.58974	0.42351	1.602E-02	5.745E-06	1.603E-02
581983.72	4198688.94	67597.92761	1.13603	1.598E-02	1.541E-05	1.599E-02
582127.74	4198640.17	67552.9417	1.15912	1.596E-02	1.572E-05	1.598E-02
582489.41	4199058.52	67391.98833	0.94065	1.593E-02	1.276E-05	1.594E-02
582322.12	4199178.13	67340.56968	0.53137	1.591E-02	7.208E-06	1.592E-02
582453.1	4199098.75	66962.65355	0.75803	1.583E-02	1.028E-05	1.584E-02
581759.19	4199139.71	66495.54267	0.38596	1.571E-02	5.236E-06	1.572E-02
582232.93	4198626.24	66446.6898	1.24233	1.570E-02	1.685E-05	1.572E-02
581782.43	4199162.71	66438.92242	0.38491	1.570E-02	5.221E-06	1.571E-02
582145.76	4199229.01	66267.56382	0.42371	1.566E-02	5.748E-06	1.567E-02
582255.58	4199204.8	65677.52896	0.47339	1.552E-02	6.422E-06	1.553E-02
581840.53	4199208.71	65647.9773	0.36024	1.551E-02	4.887E-06	1.552E-02
581768.41	4198847.77	65576.39095	0.82672	1.550E-02	1.121E-05	1.551E-02
582358.21	4198636.45	65414.95129	1.49366	1.546E-02	2.026E-05	1.548E-02
582390.66	4198643.37	64827.40741	1.57853	1.532E-02	2.141E-05	1.534E-02
582162.09	4199229.01	64667.41775	0.42377	1.528E-02	5.748E-06	1.529E-02
582263.57	4198621.43	64572.2524	1.23874	1.526E-02	1.680E-05	1.528E-02
582406.38	4199143.07	64385.21266	0.61181	1.522E-02	8.299E-06	1.522E-02
581805.67	4199185.71	64332.34986	0.37048	1.520E-02	5.026E-06	1.521E-02
582369.13	4199164.98	64135.66404	0.55705	1.516E-02	7.556E-06	1.516E-02
582410.49	4198646.97	64014.7111	1.61461	1.513E-02	2.190E-05	1.515E-02
582290.61	4198620.83	63864.99939	1.26625	1.509E-02	1.718E-05	1.511E-02
582178.42	4199229.01	63025.13693	0.42369	1.489E-02	5.747E-06	1.490E-02
582492.01	4199084.8	61907.78403	0.79313	1.463E-02	1.076E-05	1.464E-02
581845.33	4198763.25	61883.63372	1.12408	1.462E-02	1.525E-05	1.464E-02
582320.35	4198617.23	61815.08132	1.25636	1.461E-02	1.704E-05	1.463E-02
582348.9	4198620.83	61604.41426	1.31142	1.456E-02	1.779E-05	1.458E-02
582453.7	4199121.45	61384.49607	0.66541	1.451E-02	9.026E-06	1.452E-02
582194.75	4199229.01	61357.057	0.42346	1.450E-02	5.744E-06	1.451E-02
582062.62	4198644.76	61065.28247	1.00602	1.443E-02	1.365E-05	1.445E-02
582027.72	4199249.74	60997.26662	0.37775	1.442E-02	5.124E-06	1.442E-02
581828.91	4199208.71	60950.37463	0.34978	1.440E-02	4.745E-06	1.441E-02
581735.95	4199116.71	60885.96807	0.37621	1.439E-02	5.103E-06	1.439E-02
581770.81	4199162.71	60150.51134	0.36671	1.422E-02	4.974E-06	1.422E-02
582322.32	4199196.65	60031.71872	0.48452	1.419E-02	6.573E-06	1.419E-02
582281.89	4199210.2	59954.65615	0.45872	1.417E-02	6.223E-06	1.418E-02
581906.38	4198718.93	59873.19112	1.07501	1.415E-02	1.458E-05	1.416E-02
582211.08	4199229.01	59696.58408	0.42306	1.411E-02	5.739E-06	1.411E-02
581996.99	4199252.17	59683.55686	0.36867	1.410E-02	5.001E-06	1.411E-02
582489.09	4199100.37	59451.72288	0.72533	1.405E-02	9.839E-06	1.406E-02
582385.25	4198619.33	59232.52535	1.30508	1.400E-02	1.770E-05	1.402E-02
581790.12	4198808.92	59160.12616	0.89457	1.398E-02	1.213E-05	1.399E-02
581970.4	4199252.17	59131.25208	0.36243	1.397E-02	4.916E-06	1.398E-02
581794.05	4199185.71	59120.24042	0.35667	1.397E-02	4.838E-06	1.398E-02
582074.37	4198636.08	58873.11028	0.96596	1.391E-02	1.310E-05	1.393E-02
582129.43	4199246.34	58659.50836	0.39006	1.386E-02	5.291E-06	1.387E-02
581747.57	4199139.71	58631.28192	0.36444	1.386E-02	4.944E-06	1.386E-02
582416.5	4198622.94	58082.62254	1.3378	1.373E-02	1.815E-05	1.374E-02
582365.54	4199184.9	58058.83013	0.50476	1.372E-02	6.847E-06	1.373E-02
582192.86	4198606.46	57989.87561	0.98174	1.370E-02	1.332E-05	1.372E-02
581946.01	4199252.66	57698.23362	0.35292	1.364E-02	4.787E-06	1.364E-02
582027.89	4198650.89	57579.416	0.9456	1.361E-02	1.283E-05	1.362E-02
582145.76	4199246.34	57553.87125	0.3904	1.360E-02	5.296E-06	1.361E-02
582407.57	4199166.57	57387.71163	0.5412	1.356E-02	7.341E-06	1.357E-02
581817.29	4199208.71	56658.1585	0.33921	1.339E-02	4.601E-06	1.339E-02
582012.32	4198655.75	56618.86637	0.93313	1.338E-02	1.266E-05	1.339E-02
582438.43	4198622.94	56568.45853	1.32907	1.337E-02	1.803E-05	1.339E-02
581918.44	4199251.2	56470.0623	0.33931	1.335E-02	4.603E-06	1.335E-02
582162.09	4199246.34	56372.96024	0.3906	1.332E-02	5.299E-06	1.333E-02
582453.43	4199143.84	56133.63908	0.58962	1.327E-02	7.998E-06	1.327E-02
582509.93	4198651.18	55631.52833	1.54167	1.315E-02	2.091E-05	1.317E-02
581852.15	4199231.71	55478.00766	0.32888	1.311E-02	4.461E-06	1.312E-02
581866.37	4198738.32	55335.53436	1.03198	1.308E-02	1.400E-05	1.309E-02
582489.09	4199121.45	55327.52308	0.64409	1.308E-02	8.737E-06	1.308E-02
582178.42	4199246.34	55139.00307	0.39066	1.303E-02	5.299E-06	1.304E-02
582122.12	4198612.33	55062.40127	0.88731	1.301E-02	1.204E-05	1.302E-02
581759.19	4199162.71	54420.05651	0.349	1.286E-02	4.734E-06	1.287E-02
581782.43	4199185.71	54336.55073	0.3429	1.284E-02	4.651E-06	1.285E-02
581826.88	4198765.84	54152.74584	0.97606	1.280E-02	1.324E-05	1.281E-02
582179.83	4198596.76	53986.19442	0.88532	1.276E-02	1.201E-05	1.277E-02
581970.44	4198670.81	53881.42529	0.90397	1.273E-02	1.226E-05	1.275E-02
582194.75	4199246.34	53873.00217	0.39057	1.273E-02	5.298E-06	1.274E-02
582477.18	4198619.33	53160.8151	1.2719	1.256E-02	1.725E-05	1.258E-02
582510.23	4198634.05	53007.44426	1.37128	1.253E-02	1.860E-05	1.255E-02
582066.71	4198624.59	52911.35563	0.85655	1.250E-02	1.162E-05	1.252E-02
581805.67	4199208.71	52697.59053	0.32856	1.245E-02	4.457E-06	1.246E-02
581712.61	4199076.69	52682.41314	0.37322	1.245E-02	5.063E-06	1.246E-02
582211.08	4199246.34	52598.13169	0.39033	1.243E-02	5.295E-06	1.244E-02
582267.85	4198582.59	52489.03519	0.9095	1.240E-02	1.234E-05	1.242E-02
581840.53	4199231.71	52407.6961	0.32063	1.239E-02	4.349E-06	1.239E-02
582285.73	4198581.07	52199.00028	0.9177	1.234E-02	1.245E-05	1.235E-02
582317.3	4198580.69	51985.82104	0.94319	1.229E-02	1.279E-05	1.230E-02
581735.95	4199139.71	51840.36742	0.3443	1.225E-02	4.670E-06	1.226E-02
582370.72	4199204.02	51604.50442	0.459	1.220E-02	6.226E-06	1.220E-02
582286.27	4199232.11	51395.23766	0.41315	1.215E-02	5.604E-06	1.215E-02
582325.51	4199220.95	51318.33076	0.43092	1.213E-02	5.845E-06	1.213E-02
582492.01	4199140.92	51146.28068	0.57886	1.209E-02	7.852E-06	1.210E-02
582129.43	4199263.67	51087.9744	0.36057	1.207E-02	4.891E-06	1.208E-02
582353.06	4198579.17	51058.26205	0.95671	1.207E-02	1.298E-05	1.208E-02
582454.03	4199166.54	50932.93886	0.52473	1.204E-02	7.118E-06	1.204E-02
582242.37	4198578.41	50892.57897	0.8521	1.203E-02	1.156E-05	1.204E-02
582103.83	4199266.81	50855.274	0.35459	1.202E-02	4.810E-06	1.202E-02
582408.57	4199190.88	50778.06821	0.47967	1.200E-02	6.507E-06	1.201E-02
581773.74	4198811.97	50714.09244	0.76337	1.199E-02	1.036E-05	1.200E-02
582511.43	4198618.73	50626.53698	1.23854	1.196E-02	1.680E-05	1.198E-02
582145.76	4199263.67	50290.60419	0.361	1.189E-02	4.897E-06	1.189E-02
582380.82	4198578.41	50191.743	0.96444	1.186E-02	1.308E-05	1.187E-02
581770.81	4199185.71	49917.52515	0.32944	1.180E-02	4.469E-06	1.180E-02
581747.46	4198847.01	49747.1805	0.65884	1.176E-02	8.937E-06	1.177E-02
582408.59	4198579.55	49518.42091	0.98005	1.170E-02	1.329E-05	1.172E-02

581828.91	4199231.71	49439.51193	0.31226	1.168E-02	4.236E-06	1.169E-02
582162.09	4199263.67	49420.1635	0.36128	1.168E-02	4.901E-06	1.168E-02
582437.88	4198584.49	49267.38933	1.01604	1.164E-02	1.378E-05	1.166E-02
581747.57	4199162.71	49245.72116	0.33187	1.164E-02	4.502E-06	1.164E-02
581794.05	4199208.71	49020.66912	0.31786	1.159E-02	4.312E-06	1.159E-02
582258.34	4198569.66	48933.95799	0.81402	1.156E-02	1.104E-05	1.158E-02
582024.79	4199274.62	48929.10465	0.33587	1.156E-02	4.556E-06	1.157E-02
582178.42	4199263.67	48493.73221	0.36143	1.146E-02	4.903E-06	1.147E-02
582185.2	4198576.33	48036.74926	0.7642	1.135E-02	1.037E-05	1.136E-02
582488.44	4199162	47631.22008	0.52184	1.126E-02	7.079E-06	1.126E-02
582194.75	4199263.67	47527.98377	0.36143	1.123E-02	4.903E-06	1.124E-02
582470.59	4198581.45	47253.12012	0.99232	1.117E-02	1.346E-05	1.118E-02
582043.73	4198617.95	47045.16965	0.75836	1.112E-02	1.029E-05	1.113E-02
581817.29	4199231.71	46589.94111	0.3038	1.101E-02	4.121E-06	1.101E-02
582211.08	4199263.67	46537.98283	0.36128	1.100E-02	4.901E-06	1.100E-02
582455.05	4199187.31	46378.03258	0.47375	1.096E-02	6.426E-06	1.097E-02
582290.65	4199248.24	46008.51916	0.38368	1.087E-02	5.205E-06	1.088E-02
582505.2	4198584.11	45946.76742	0.99889	1.086E-02	1.355E-05	1.087E-02
581759.19	4199185.71	45858.72935	0.31615	1.084E-02	4.289E-06	1.084E-02
582409.96	4199210.59	45837.02829	0.43662	1.083E-02	5.923E-06	1.084E-02
581801.63	4198771.02	45749.34919	0.80186	1.081E-02	1.088E-05	1.082E-02
582371.32	4199226.13	45598.81746	0.41394	1.078E-02	5.615E-06	1.078E-02
581782.43	4199208.71	45597.26383	0.30713	1.078E-02	4.166E-06	1.078E-02
582000.06	4198633.53	45163.68847	0.74335	1.067E-02	1.008E-05	1.068E-02
581852.15	4199254.71	44962.4885	0.29489	1.063E-02	4.000E-06	1.063E-02
582331.68	4199241.07	44947.89656	0.39228	1.062E-02	5.321E-06	1.063E-02
581892.17	4198698.08	44860.95546	0.8266	1.060E-02	1.121E-05	1.061E-02
582129.43	4199281	44789.34091	0.33443	1.059E-02	4.537E-06	1.059E-02
581962.78	4198652.94	44765.3258	0.7555	1.058E-02	1.025E-05	1.059E-02
581735.95	4199162.71	44608.51689	0.31538	1.054E-02	4.278E-06	1.055E-02
582145.76	4199281	44212.131	0.33491	1.045E-02	4.543E-06	1.045E-02
581805.67	4199231.71	43863.77565	0.29527	1.037E-02	4.005E-06	1.037E-02
582490.71	4199181.47	43820.39133	0.47378	1.036E-02	6.427E-06	1.036E-02
581704.58	4199103.82	43656.93905	0.3291	1.032E-02	4.464E-06	1.032E-02
582162.09	4199281	43567.76483	0.33525	1.030E-02	4.548E-06	1.030E-02
582066.71	4198596.25	43307.82239	0.68467	1.023E-02	9.288E-06	1.024E-02
581840.53	4199254.71	42954.16575	0.28813	1.015E-02	3.908E-06	1.016E-02
581752.03	4198816.54	42882.94933	0.63061	1.013E-02	8.554E-06	1.014E-02
582235.92	4198546.93	42859.37636	0.67255	1.013E-02	9.123E-06	1.014E-02
582178.42	4199281	42869.65833	0.33544	1.013E-02	4.550E-06	1.014E-02
581770.81	4199208.71	42374.11067	0.29704	1.001E-02	4.029E-06	1.002E-02
581747.57	4199185.71	42154.7901	0.30291	9.962E-03	4.109E-06	9.967E-03
582194.75	4199281	42130.3362	0.33549	9.957E-03	4.551E-06	9.961E-03
581993.82	4199292.18	42117.81384	0.30564	9.954E-03	4.146E-06	9.958E-03
581964.06	4199291.2	41681.45933	0.30003	9.851E-03	4.070E-06	9.855E-03
582107.06	4198574.28	41599.64183	0.63873	9.831E-03	8.664E-06	9.840E-03
582450.46	4199213.91	41483.42234	0.4198	9.804E-03	5.695E-06	9.809E-03
581930.15	4199287.79	41368.95887	0.29078	9.777E-03	3.944E-06	9.781E-03
582211.08	4199281	41362.24179	0.33541	9.775E-03	4.550E-06	9.780E-03
581794.05	4199231.71	41262.88947	0.28669	9.752E-03	3.889E-06	9.756E-03
582184.94	4198549.77	41245.48969	0.63225	9.748E-03	8.576E-06	9.756E-03
582406.18	4199232.7	41238.43107	0.39559	9.746E-03	5.366E-06	9.751E-03
582497.98	4198547.22	41108.98752	0.80096	9.715E-03	1.087E-05	9.726E-03
581828.91	4199254.71	40956.6766	0.28127	9.679E-03	3.815E-06	9.683E-03
581706.53	4199127.91	40737.3863	0.30948	9.627E-03	4.198E-06	9.632E-03
582421.52	4198528.2	40311.01019	0.7015	9.527E-03	9.516E-06	9.536E-03
582023.82	4199299.01	40286.56803	0.30165	9.521E-03	4.092E-06	9.525E-03
582053.58	4199299.5	40263.8528	0.30476	9.516E-03	4.134E-06	9.520E-03
582376.26	4198524.39	40180.8911	0.66728	9.496E-03	9.052E-06	9.505E-03
582448.15	4198529.72	40048.45341	0.71521	9.465E-03	9.702E-06	9.474E-03
582342.41	4198523.25	40017.1395	0.6447	9.457E-03	8.745E-06	9.466E-03
582319.96	4198523.25	39870.5661	0.63097	9.423E-03	8.559E-06	9.431E-03
582491.03	4199205.15	39684.28056	0.42429	9.379E-03	5.756E-06	9.384E-03
582129.43	4199298.33	39525.85129	0.31111	9.341E-03	4.220E-06	9.345E-03
582165.02	4198546.96	39439.19124	0.59825	9.321E-03	8.115E-06	9.329E-03
581759.19	4199208.71	39384.60924	0.2868	9.308E-03	3.890E-06	9.312E-03
582300.57	4198521.73	39351.31271	0.612	9.300E-03	8.302E-06	9.308E-03
582306.98	4199270.15	39230.62565	0.34758	9.271E-03	4.715E-06	9.276E-03
581852.13	4198711.77	39183.16721	0.75065	9.260E-03	1.018E-05	9.270E-03
582477.06	4198527.82	39121.23286	0.71224	9.245E-03	9.662E-06	9.255E-03
582145.76	4199298.33	39104.21238	0.31164	9.241E-03	4.227E-06	9.246E-03
581817.29	4199254.71	38989.53185	0.27434	9.214E-03	3.721E-06	9.218E-03
581942.35	4198647.32	38896.7104	0.67003	9.192E-03	9.089E-06	9.202E-03
582263.39	4198523.33	38866.29674	0.59076	9.185E-03	8.014E-06	9.193E-03
581735.95	4199185.71	38803.22241	0.28947	9.170E-03	3.927E-06	9.174E-03
581782.43	4199231.71	38789.64678	0.27808	9.167E-03	3.772E-06	9.171E-03
582162.09	4199298.33	38623.67827	0.31201	9.128E-03	4.232E-06	9.132E-03
581722.7	4198848.15	38500.83392	0.52337	9.099E-03	7.100E-06	9.106E-03
581840.8	4198717.93	38345.34221	0.73838	9.062E-03	1.002E-05	9.072E-03
582220.59	4199291.38	38228.97645	0.32114	9.035E-03	4.356E-06	9.039E-03
582352.4	4199263.38	38210.84446	0.35352	9.030E-03	4.796E-06	9.035E-03
582178.42	4199298.33	38093.75262	0.31224	9.003E-03	4.236E-06	9.007E-03
581778.32	4198769.72	37817.7446	0.64652	8.937E-03	8.770E-06	8.946E-03
582194.75	4199298.33	37524.41573	0.31232	8.868E-03	4.237E-06	8.872E-03
582120.08	4198552.58	37486.10767	0.56748	8.859E-03	7.698E-06	8.867E-03
582451.81	4199235.64	37377.45518	0.38079	8.833E-03	5.165E-06	8.839E-03
581852.15	4199277.71	37373.37018	0.26662	8.832E-03	3.617E-06	8.836E-03
582371.32	4199262.38	37342.39055	0.35275	8.825E-03	4.785E-06	8.830E-03
582486.17	4199222.66	37176.21139	0.39385	8.786E-03	5.343E-06	8.791E-03
582247.01	4199291.38	37109.12943	0.3206	8.770E-03	4.349E-06	8.774E-03
581805.67	4199254.71	37065.20213	0.26737	8.760E-03	3.627E-06	8.763E-03
582211.08	4199298.33	36925.26745	0.31227	8.727E-03	4.236E-06	8.731E-03
582393	4198503.85	36901.69667	0.59555	8.721E-03	8.079E-06	8.729E-03
581747.57	4199208.71	36618.05198	0.27648	8.654E-03	3.750E-06	8.658E-03
581989.91	4199310.23	36617.23802	0.28208	8.654E-03	3.826E-06	8.658E-03
581770.81	4199231.71	36440.74372	0.26958	8.612E-03	3.657E-06	8.616E-03
582138.21	4198541.09	36381.38288	0.54659	8.598E-03	7.415E-06	8.605E-03
581704.79	4199150.91	36332.25654	0.28568	8.586E-03	3.875E-06	8.590E-03
582352.18	4198500.25	36302.85505	0.56429	8.579E-03	7.655E-06	8.587E-03
581953.84	4198630.72	36254.32943	0.62071	8.568E-03	8.420E-06	8.576E-03
582403.19	4199258.8	36227.48034	0.35359	8.562E-03	4.796E-06	8.566E-03
581960.15	4199309.25	36191.71165	0.27639	8.553E-03	3.749E-06	8.557E-03
581827.2	4198720.51	35974.90721	0.69472	8.502E-03	9.424E-06	8.511E-03
581840.53	4199277.71	35966.69615	0.26098	8.500E-03	3.540E-06	8.504E-03
582064.92	4198566.62	35566.63153	0.54792	8.405E-03	7.433E-06	8.413E-03
581680.98	4198977.56	35453.56071	0.3611	8.379E-03	4.898E-06	8.384E-03
581683.93	4198954.61	35341.91172	0.38064	8.352E-03	5.163E-06	8.357E-03
582447.01	4198495.11	35317.34144	0.58408	8.347E-03	7.923E-06	8.354E-03
581986.27	4198606.97	35221.60637	0.58696	8.324E-03	7.962E-06	8.332E-03
581681.83	4198965.56	35201.24335	0.36944	8.319E-03	5.011E-06	8.324E-03
581794.05	4199254.71	35193.27322	0.26035	8.317E-03	3.532E-06	8.321E-03
582288.64	4198498.46	35133.41224	0.52237	8.303E-03	7.086E-06	8.310E-03
582105.78	4198546.96	35113.57778	0.53065	8.298E-03	7.198E-06	8.306E-03
582129.43	4199315.66	35105.15917	0.29021	8.296E-03	3.937E-06	8.300E-03
582317.94	4199287.68	34872.85895	0.32226	8.241E-03	4.371E-06	8.246E-03
582145.76	4199315.66	34793.0388	0.29077	8.223E-03	3.944E-06	8.227E-03
581932.59	4199311.21	34679.77809	0.26368	8.196E-03	3.577E-06	8.199E-03
581828.91	4199277.71	34550.51792	0.25526	8.165E-03	3.463E-06	8.169E-03
582219.1	4198507.49	34474.48144	0.50221	8.147E-03	6.812E-06	8.154E-03
582162.09	4199315.66	34430.30321	0.29117	8.137E-03	3.950E-06	8.141E-03
581759.19	4199231.71	34227.86342	0.26095	8.089E-03	3.540E-06	8.093E-03
581735.95	4199208.71	34062.09824	0.26615	8.050E-03	3.610E-06	8.053E-03
582178.42	4199315.66	34024.09683	0.29142	8.041E-03	3.953E-06	8.045E-03
582486.49	4199244.4	33781.27407	0.35859	7.983E-03	4.864E-06	7.988E-03
581802.28	4198732.17	33682.0207	0.63395	7.960E-03	8.600E-06	7.969E-03
582194.75	4199315.66	33581.87581	0.29152	7.936E-03	3.954E-06	7.940E-03
582452.4	4199258.35	33541.79853	0.34551	7.927E-03	4.687E-06	7.932E-03
581672.59	4199008.78	33392.05116	0.32648	7.892E-03	4.429E-06	7.896E-03
581877.22	4198672.61	33375.43993	0.63454	7.888E-03	8.608E-06	7.896E-03

581782.43	4199254.71	33381.62045	0.2533	7.889E-03	3.436E-06	7.892E-03
581754.69	4198773.61	33324.4111	0.53638	7.876E-03	7.276E-06	7.883E-03
581817.29	4199277.71	33137.61544	0.2495	7.831E-03	3.384E-06	7.835E-03
582211.08	4199315.66	33110.9656	0.2915	7.825E-03	3.954E-06	7.829E-03
581721.18	4198813.49	32686.01523	0.47792	7.725E-03	6.483E-06	7.731E-03
581679.93	4198928.92	32524.38363	0.378	7.686E-03	5.128E-06	7.692E-03
582334.93	4198474.69	32426.08143	0.47814	7.663E-03	6.486E-06	7.670E-03
582375.5	4198470.76	32310.54909	0.48548	7.636E-03	6.586E-06	7.643E-03
582334.47	4199298.04	32229.94417	0.30783	7.617E-03	4.176E-06	7.621E-03
581703.49	4199176.3	32189.79509	0.26227	7.607E-03	3.558E-06	7.611E-03
581747.57	4199231.71	32133.07414	0.25259	7.594E-03	3.426E-06	7.597E-03
582312.48	4198474.69	32064.2326	0.46704	7.578E-03	6.335E-06	7.584E-03
582403.59	4199282.9	31970.08318	0.31985	7.555E-03	4.339E-06	7.560E-03
582025.53	4199332.18	31846.12218	0.26355	7.526E-03	3.575E-06	7.530E-03
582220.59	4199320.81	31816.60604	0.28566	7.519E-03	3.875E-06	7.523E-03
582055.29	4199333.16	31747.70101	0.26597	7.503E-03	3.608E-06	7.507E-03
581805.67	4199277.71	31737.8729	0.24369	7.501E-03	3.306E-06	7.504E-03
582421.52	4198464.3	31649.72489	0.48515	7.480E-03	6.581E-06	7.486E-03
581852.15	4199300.71	31655.19773	0.24312	7.481E-03	3.298E-06	7.484E-03
581770.81	4199254.71	31636.82826	0.24623	7.477E-03	3.340E-06	7.480E-03
582293.09	4198473.17	31453.24098	0.45301	7.433E-03	6.145E-06	7.439E-03
582261.13	4198479.04	31447.2948	0.45035	7.432E-03	6.109E-06	7.438E-03
582129.43	4199332.99	31371.21488	0.27138	7.414E-03	3.681E-06	7.418E-03
582181.93	4198498.76	31322.17481	0.44952	7.402E-03	6.098E-06	7.408E-03
581991.38	4199333.16	31186.62435	0.25712	7.370E-03	3.488E-06	7.374E-03
582145.76	4199332.99	31136.46976	0.27197	7.358E-03	3.689E-06	7.362E-03
582247.01	4199320.81	31048.88534	0.28524	7.338E-03	3.869E-06	7.342E-03
582162.09	4199332.99	30858.8574	0.27238	7.293E-03	3.695E-06	7.297E-03
581946.43	4198612.33	30843.20792	0.53648	7.289E-03	7.277E-06	7.296E-03
581664.59	4199034.29	30831.13524	0.29975	7.286E-03	4.066E-06	7.290E-03
581961.62	4199332.18	30826.79378	0.25218	7.285E-03	3.421E-06	7.289E-03
581666.25	4198975.24	30718.87716	0.32645	7.260E-03	4.428E-06	7.264E-03
582490.38	4199264.84	30668.63473	0.32867	7.248E-03	4.458E-06	7.252E-03
581667.51	4198962.61	30628.79738	0.33455	7.238E-03	4.538E-06	7.243E-03
582372.91	4199298.83	30621.26941	0.30346	7.237E-03	4.116E-06	7.241E-03
581840.53	4199300.71	30623.36936	0.23833	7.237E-03	3.233E-06	7.240E-03
582178.42	4199332.99	30543.49205	0.27265	7.218E-03	3.699E-06	7.222E-03
581670.07	4199104.69	30450.75917	0.2721	7.196E-03	3.691E-06	7.200E-03
581779.94	4198736.05	30393.80152	0.55069	7.183E-03	7.470E-06	7.190E-03
581794.05	4199277.71	30358.98963	0.23785	7.175E-03	3.226E-06	7.178E-03
581932.59	4199330.23	30345.66585	0.24449	7.172E-03	3.317E-06	7.175E-03
582194.75	4199332.99	30195.87266	0.27278	7.136E-03	3.700E-06	7.140E-03
581735.95	4199231.71	30152.95855	0.2445	7.126E-03	3.317E-06	7.129E-03
581709.57	4199199.96	30144.20176	0.24993	7.124E-03	3.390E-06	7.127E-03
582450.48	4199281.7	30110.06326	0.31437	7.116E-03	4.264E-06	7.120E-03
581759.19	4199254.71	29964.02364	0.23914	7.081E-03	3.244E-06	7.085E-03
582211.08	4199332.99	29821.95799	0.27278	7.048E-03	3.700E-06	7.051E-03
582165.44	4198494.56	29810.80867	0.42737	7.045E-03	5.797E-06	7.051E-03
581828.91	4199300.71	29575.9722	0.2336	6.990E-03	3.169E-06	6.993E-03
582042.19	4198545.68	29222.27276	0.45615	6.906E-03	6.188E-06	6.912E-03
582412.14	4198442.36	29160.27229	0.42773	6.891E-03	5.802E-06	6.897E-03
582137.32	4198500.7	29133.04083	0.42394	6.885E-03	5.751E-06	6.891E-03
582448.72	4198440.71	29051.08008	0.43521	6.866E-03	5.904E-06	6.872E-03
581660.96	4199076.26	29036.4594	0.27411	6.862E-03	3.718E-06	6.866E-03
582389.7	4198442.36	29028.91878	0.42009	6.860E-03	5.699E-06	6.866E-03
582471.16	4198440.71	29001.96732	0.44187	6.854E-03	5.994E-06	6.860E-03
581782.43	4199277.71	29007.70175	0.23199	6.855E-03	3.147E-06	6.859E-03
582370.3	4198440.84	28684.00253	0.4096	6.779E-03	5.556E-06	6.784E-03
581817.29	4199300.71	28527.26591	0.2287	6.742E-03	3.102E-06	6.745E-03
582306.03	4198447.72	28461.51739	0.39874	6.726E-03	5.409E-06	6.732E-03
582404.77	4199306.04	28381.0498	0.29162	6.707E-03	3.956E-06	6.711E-03
581747.57	4199254.71	28358.60108	0.23225	6.702E-03	3.150E-06	6.705E-03
581728.14	4198773.61	28285.41269	0.44215	6.685E-03	5.998E-06	6.691E-03
582129.43	4199350.32	28197.9027	0.25435	6.664E-03	3.450E-06	6.667E-03
582210.05	4198468.37	28156.01721	0.39552	6.654E-03	5.365E-06	6.659E-03
582145.76	4199350.32	28018.52381	0.25495	6.622E-03	3.458E-06	6.625E-03
581659.72	4198947.03	28012.52101	0.32261	6.620E-03	4.376E-06	6.625E-03
582489.41	4199286.57	27884.87383	0.30163	6.590E-03	4.092E-06	6.594E-03
581683.82	4198850.48	27855.75762	0.3843	6.583E-03	5.213E-06	6.588E-03
582162.09	4199350.32	27802.54344	0.25539	6.571E-03	3.464E-06	6.574E-03
581664.43	4199127.04	27745.42364	0.25167	6.557E-03	3.414E-06	6.560E-03
581865.08	4198655.12	27728.91596	0.53818	6.553E-03	7.300E-06	6.560E-03
582341.79	4198435.55	27721.66565	0.38723	6.551E-03	5.253E-06	6.557E-03
581770.81	4199277.71	27690.10472	0.2261	6.544E-03	3.067E-06	6.547E-03
581991.38	4199352.19	27584.84429	0.23888	6.519E-03	3.240E-06	6.522E-03
582178.42	4199350.32	27554.12014	0.25567	6.512E-03	3.468E-06	6.515E-03
581759.22	4198737.35	27491.653	0.47788	6.497E-03	6.482E-06	6.504E-03
581805.67	4199300.71	27480.68885	0.22378	6.494E-03	3.036E-06	6.498E-03
581659.72	4198931.03	27358.39418	0.32679	6.466E-03	4.433E-06	6.470E-03
581829.47	4198680.05	27335.6393	0.53954	6.460E-03	7.319E-06	6.468E-03
582461.65	4198423.22	27331.11243	0.40178	6.459E-03	5.450E-06	6.465E-03
582442.63	4198423.22	27313.84881	0.39569	6.455E-03	5.368E-06	6.460E-03
582194.75	4199350.32	27277.58083	0.25582	6.446E-03	3.470E-06	6.450E-03
582114.69	4198497.14	27208.61317	0.39827	6.430E-03	5.403E-06	6.436E-03
582410.24	4198423.34	27183.27938	0.38632	6.424E-03	5.240E-06	6.429E-03
581852.15	4199323.71	27181.80599	0.22416	6.424E-03	3.041E-06	6.427E-03
582054.31	4199358.04	27149.69672	0.24194	6.416E-03	3.282E-06	6.420E-03
582024.55	4199357.06	27118.1749	0.23929	6.409E-03	3.246E-06	6.412E-03
582452.43	4199303.76	27061.08305	0.28802	6.395E-03	3.907E-06	6.399E-03
582387.8	4198423.34	27004.02435	0.37907	6.382E-03	5.142E-06	6.387E-03
582211.08	4199350.32	26977.24456	0.25584	6.376E-03	3.470E-06	6.379E-03
581964.06	4199353.16	26922.25922	0.23305	6.363E-03	3.161E-06	6.366E-03
581735.95	4199254.71	26821.51218	0.22556	6.339E-03	3.060E-06	6.342E-03
581648.99	4199012.17	26813.52532	0.28055	6.337E-03	3.806E-06	6.341E-03
582220.59	4199350.24	26805.1611	0.25586	6.335E-03	3.471E-06	6.338E-03
582368.4	4198421.82	26636.78707	0.36961	6.295E-03	5.014E-06	6.300E-03
581794.05	4199300.71	26444.41245	0.21873	6.250E-03	2.967E-06	6.253E-03
581759.19	4199277.71	26410.69655	0.22019	6.242E-03	2.987E-06	6.245E-03
581840.53	4199323.71	26387.93193	0.22038	6.236E-03	2.989E-06	6.239E-03
582247.01	4199350.24	26265.728	0.25551	6.207E-03	3.466E-06	6.211E-03
582334.67	4199335.88	26258.17151	0.26597	6.206E-03	3.608E-06	6.209E-03
582008.23	4198546.19	26160.51404	0.42241	6.182E-03	5.730E-06	6.188E-03
582302.6	4198427.94	26148.40082	0.3564	6.180E-03	4.835E-06	6.184E-03
581664.21	4199153.08	26019.12089	0.23663	6.149E-03	3.210E-06	6.152E-03
581703.93	4199225.78	25998.61502	0.22595	6.144E-03	3.065E-06	6.147E-03
582275.59	4198430.61	25777.85329	0.35038	6.092E-03	4.753E-06	6.097E-03
582171.58	4198461.58	25608.02668	0.36024	6.052E-03	4.887E-06	6.057E-03
581828.91	4199323.71	25577.75663	0.21667	6.045E-03	2.939E-06	6.048E-03
582129.43	4199367.65	25483.41828	0.23889	6.022E-03	3.241E-06	6.026E-03
582461.65	4198402.29	25450.8646	0.36229	6.015E-03	4.914E-06	6.020E-03
582492.98	4199306.03	25452.896	0.27933	6.015E-03	3.789E-06	6.019E-03
581927.71	4199356.58	25430.88263	0.22116	6.010E-03	3.000E-06	6.013E-03
581782.43	4199300.71	25422.49502	0.21359	6.008E-03	2.897E-06	6.011E-03
582439.21	4198402.29	25372.11392	0.35633	5.996E-03	4.834E-06	6.001E-03
582145.76	4199367.65	25344.17496	0.2395	5.990E-03	3.249E-06	5.993E-03
582162.09	4199367.65	25173.77271	0.23995	5.949E-03	3.255E-06	5.953E-03
581747.57	4199277.71	25170.64743	0.21435	5.949E-03	2.908E-06	5.951E-03
581802.28	4198687.17	25094.80575	0.48992	5.931E-03	6.646E-06	5.937E-03
582178.42	4199367.65	24975.32966	0.24025	5.902E-03	3.259E-06	5.906E-03
582355.11	4199342.37	24902.64811	0.2584	5.885E-03	3.505E-06	5.889E-03
582371.01	4199339.45	24884.21339	0.26002	5.881E-03	3.527E-06	5.884E-03
581817.29	4199323.71	24760.76455	0.21289	5.852E-03	2.888E-06	5.855E-03
582194.75	4199367.65	24752.1839	0.24042	5.850E-03	3.261E-06	5.853E-03
582341.9	4198405.18	24605.86036	0.33714	5.815E-03	4.573E-06	5.820E-03
582412.14	4198395.57	24601.79417	0.33778	5.814E-03	4.582E-06	5.819E-03
582237.74	4198429.85	24560.22508	0.33533	5.804E-03	4.549E-06	5.809E-03
581665.08	4199176.09	24551.78381	0.22449	5.802E-03	3.045E-06	5.805E-03
582211.08	4199367.65	24507.92338	0.24045	5.792E-03	3.262E-06	5.795E-03
581733.65	4198739.29	24446.62044	0.40952	5.777E-03	5.555E-06	5.783E-03

581770.81	4199300.71	24411.79872	0.20861	5.769E-03	2.830E-06	5.772E-03
582389.7	4198395.57	24383.72661	0.33134	5.763E-03	4.495E-06	5.767E-03
581680.26	4198811.95	24382.04248	0.34744	5.762E-03	4.713E-06	5.767E-03
582073.31	4198496.17	24364.10426	0.36676	5.758E-03	4.975E-06	5.763E-03
581704.54	4198770.84	24311.86016	0.37473	5.746E-03	5.083E-06	5.751E-03
581998.94	4199374.63	24164.67862	0.22092	5.711E-03	2.997E-06	5.714E-03
582370.3	4198394.05	24009.88346	0.32589	5.674E-03	4.421E-06	5.679E-03
581928.3	4198584.24	23975.16055	0.42537	5.666E-03	5.770E-06	5.672E-03
581805.67	4199323.71	23980.58909	0.20805	5.667E-03	2.822E-06	5.670E-03
581735.95	4199277.71	23969.73934	0.20867	5.665E-03	2.831E-06	5.668E-03
582411.2	4199341.07	23719.49572	0.25504	5.606E-03	3.460E-06	5.609E-03
582275.98	4198410.06	23662.5836	0.33011	5.592E-03	4.478E-06	5.597E-03
582108.71	4199381.95	23631.10785	0.22614	5.585E-03	3.068E-06	5.588E-03
581852.15	4199346.71	23614.95502	0.20785	5.581E-03	2.819E-06	5.584E-03
582049.68	4199381.95	23607.26315	0.22146	5.579E-03	3.004E-06	5.582E-03
582309.45	4198401.31	23576.64835	0.33096	5.572E-03	4.489E-06	5.576E-03
581638.03	4198949.14	23554.46771	0.27954	5.567E-03	3.792E-06	5.570E-03
581967.72	4199375.6	23556.81063	0.21517	5.567E-03	2.919E-06	5.570E-03
582079.43	4199382.92	23553.28009	0.2234	5.566E-03	3.030E-06	5.569E-03
581640.56	4198931.24	23495.48751	0.28856	5.553E-03	3.914E-06	5.557E-03
582454.43	4198378.71	23479.04816	0.32268	5.549E-03	4.377E-06	5.553E-03
581902.98	4198598.62	23470.94308	0.42559	5.547E-03	5.773E-06	5.553E-03
581759.19	4199300.71	23423.27217	0.20354	5.536E-03	2.761E-06	5.538E-03
581704.31	4199251.08	23396.5913	0.20919	5.529E-03	2.838E-06	5.532E-03
582212.64	4198426.8	23375.41698	0.32012	5.524E-03	4.342E-06	5.529E-03
582150.44	4198450.77	23353.79795	0.33013	5.519E-03	4.478E-06	5.524E-03
582431.98	4198378.71	23341.78801	0.31721	5.516E-03	4.303E-06	5.521E-03
581777.03	4198693.65	23302.61588	0.4396	5.507E-03	5.963E-06	5.513E-03
581794.05	4199323.71	23210.01849	0.20297	5.485E-03	2.753E-06	5.488E-03
582429.05	4199342.04	23190.076	0.25239	5.480E-03	3.424E-06	5.484E-03
581667.25	4199199.31	23155.28137	0.21432	5.472E-03	2.907E-06	5.475E-03
582414.42	4198378.08	23147.08998	0.31182	5.470E-03	4.230E-06	5.475E-03
582449.21	4199339.45	22992.64893	0.25258	5.434E-03	3.426E-06	5.437E-03
581939.42	4199375.6	22993.45885	0.20982	5.434E-03	2.846E-06	5.437E-03
581840.53	4199346.71	22986.29448	0.20459	5.432E-03	2.775E-06	5.435E-03
581630.7	4199042.67	22931.14268	0.24346	5.419E-03	3.303E-06	5.423E-03
581853.1	4198633.43	22909.36648	0.45357	5.414E-03	6.153E-06	5.420E-03
582391.98	4198378.08	22914.81572	0.30587	5.415E-03	4.149E-06	5.420E-03
581975.03	4198542.11	22667.23382	0.38239	5.357E-03	5.187E-06	5.362E-03
581627.99	4199015.14	22552.89966	0.24776	5.330E-03	3.361E-06	5.333E-03
582372.58	4198376.56	22543.95405	0.30346	5.328E-03	4.116E-06	5.332E-03
581818.14	4198656.74	22522.82489	0.44927	5.323E-03	6.094E-06	5.329E-03
582238.12	4198409.3	22507.35406	0.30173	5.319E-03	4.093E-06	5.323E-03
581654.68	4198847.89	22455.72433	0.31351	5.307E-03	4.253E-06	5.311E-03
581747.57	4199300.71	22455.39454	0.19853	5.307E-03	2.693E-06	5.310E-03
582050.35	4198492.94	22438.08641	0.34501	5.303E-03	4.680E-06	5.307E-03
581782.43	4199323.71	22437.30831	0.19805	5.303E-03	2.687E-06	5.305E-03
581828.91	4199346.71	22366.9348	0.20093	5.286E-03	2.726E-06	5.289E-03
581638.88	4198905.97	22359.75381	0.29027	5.284E-03	3.938E-06	5.288E-03
581630.57	4199086.24	22352.24137	0.22961	5.282E-03	3.115E-06	5.286E-03
581640.35	4198894.39	22200.20309	0.29258	5.247E-03	3.969E-06	5.251E-03
581914.54	4199376.58	22199.90404	0.20315	5.246E-03	2.756E-06	5.249E-03
582176.5	4198427.94	22104.66113	0.30658	5.224E-03	4.159E-06	5.228E-03
581754.69	4198698.83	21850.13738	0.39521	5.164E-03	5.361E-06	5.169E-03
582489.41	4199341.72	21823.98029	0.24564	5.158E-03	3.332E-06	5.161E-03
582343.19	4198373.16	21771.69996	0.30066	5.145E-03	4.078E-06	5.149E-03
581710.69	4198737.81	21744.37999	0.35419	5.139E-03	4.805E-06	5.144E-03
581817.29	4199346.71	21737.14848	0.19726	5.137E-03	2.676E-06	5.140E-03
582303.74	4198381.53	21675.13757	0.30157	5.122E-03	4.091E-06	5.127E-03
581770.81	4199323.71	21659.93707	0.19346	5.119E-03	2.624E-06	5.121E-03
581627.51	4198940.92	21552.82703	0.26525	5.094E-03	3.598E-06	5.097E-03
582439.55	4198354.41	21550.53036	0.2861	5.093E-03	3.881E-06	5.097E-03
581735.95	4199300.71	21511.13528	0.19359	5.084E-03	2.626E-06	5.086E-03
582213.02	4198406.26	21406.51071	0.28841	5.059E-03	3.912E-06	5.063E-03
582115.06	4198448.1	21339.65062	0.30866	5.043E-03	4.187E-06	5.047E-03
581805.67	4199346.71	21152.35432	0.19289	4.999E-03	2.617E-06	5.002E-03
581678.64	4198770.19	21005.99826	0.31739	4.964E-03	4.305E-06	4.969E-03
581655.97	4198813.9	20995.25707	0.2984	4.962E-03	4.048E-06	4.966E-03
581665.91	4199228.58	20892.87732	0.19787	4.938E-03	2.684E-06	4.940E-03
581759.19	4199323.71	20888.70944	0.18897	4.937E-03	2.563E-06	4.939E-03
582359.59	4199378.4	20773.82113	0.22723	4.909E-03	3.082E-06	4.913E-03
581794.05	4199346.71	20568.93272	0.18789	4.861E-03	2.549E-06	4.864E-03
581627.75	4199139.85	20552.55399	0.20728	4.857E-03	2.812E-06	4.860E-03
581906.89	4198572.18	20525.35896	0.37588	4.851E-03	5.099E-06	4.856E-03
582018.02	4198494.88	20504.89666	0.3279	4.846E-03	4.448E-06	4.850E-03
582377.74	4199378.12	20494.67567	0.22632	4.843E-03	3.070E-06	4.847E-03
582155.58	4198419.19	20418.77275	0.28515	4.826E-03	3.868E-06	4.829E-03
582304.77	4199390.95	20379.74478	0.22013	4.816E-03	2.986E-06	4.819E-03
582305.65	4198364.42	20328.98433	0.28585	4.804E-03	3.878E-06	4.808E-03
582176.88	4198407.4	20213.16308	0.27689	4.777E-03	3.756E-06	4.781E-03
581747.57	4199323.71	20123.69397	0.18469	4.756E-03	2.505E-06	4.758E-03
581632.09	4199169.14	20065.26686	0.19958	4.742E-03	2.707E-06	4.745E-03
581623.51	4198904.5	20034.37685	0.26492	4.735E-03	3.594E-06	4.738E-03
582404.69	4199378.4	20016.40811	0.22423	4.730E-03	3.042E-06	4.733E-03
582279.78	4198367.46	19983.79714	0.2763	4.723E-03	3.748E-06	4.726E-03
581782.43	4199346.71	19968.79076	0.1833	4.719E-03	2.486E-06	4.722E-03
581693.42	4199278.38	19932.58716	0.18725	4.711E-03	2.540E-06	4.713E-03
581927.62	4198551.45	19916.09705	0.35803	4.707E-03	4.857E-06	4.712E-03
582093.03	4198444.77	19907.53506	0.29371	4.705E-03	3.984E-06	4.709E-03
582341.25	4198348.91	19843.45466	0.27737	4.690E-03	3.763E-06	4.693E-03
581623.93	4198894.39	19825.86122	0.26518	4.685E-03	3.597E-06	4.689E-03
581730.72	4198697.21	19668.54018	0.34783	4.648E-03	4.718E-06	4.653E-03
582286	4199401.62	19622.74419	0.21305	4.637E-03	2.890E-06	4.640E-03
581614.03	4198931.24	19373.36625	0.24886	4.578E-03	3.376E-06	4.582E-03
581611.72	4198948.08	19368.60528	0.24274	4.577E-03	3.293E-06	4.581E-03
581735.95	4199323.71	19367.57883	0.18059	4.577E-03	2.450E-06	4.580E-03
581770.81	4199346.71	19347.98973	0.17957	4.572E-03	2.436E-06	4.575E-03
581805.51	4198636.99	19223.4843	0.38683	4.543E-03	5.247E-06	4.548E-03
581838.53	4198611.74	19206.57507	0.38271	4.539E-03	5.191E-06	4.544E-03
582230.87	4199413.6	19174.66055	0.2058	4.532E-03	2.792E-06	4.534E-03
582241.93	4198369.36	19156.37575	0.26594	4.527E-03	3.607E-06	4.531E-03
581629.75	4198848.22	19135.7941	0.26879	4.522E-03	3.646E-06	4.526E-03
581605.45	4198996.4	19038.61311	0.22396	4.499E-03	3.038E-06	4.502E-03
581662.26	4199251.83	19006.565	0.18417	4.492E-03	2.498E-06	4.494E-03
581682.2	4198736.52	18943.29599	0.29886	4.477E-03	4.054E-06	4.481E-03
581784.47	4198649.62	18932.74619	0.3775	4.474E-03	5.121E-06	4.479E-03
582304.89	4198344.63	18794.26375	0.26658	4.442E-03	3.616E-06	4.445E-03
581608.87	4199106.86	18786.78857	0.20086	4.440E-03	2.725E-06	4.443E-03
581759.19	4199346.71	18731.8388	0.17583	4.427E-03	2.385E-06	4.429E-03
581631.23	4199198.22	18710.52641	0.18812	4.422E-03	2.552E-06	4.424E-03
582155.96	4198398.65	18690.36902	0.25848	4.417E-03	3.506E-06	4.421E-03
581655.65	4198771.81	18682.85702	0.27747	4.415E-03	3.764E-06	4.419E-03
581602.71	4199051.6	18612.52681	0.20847	4.399E-03	2.828E-06	4.402E-03
581931.22	4198535.53	18589.11083	0.33474	4.393E-03	4.541E-06	4.398E-03
582110.31	4198418.43	18419.15678	0.26689	4.353E-03	3.620E-06	4.357E-03
582313.18	4199411.98	18351.75635	0.20512	4.337E-03	2.782E-06	4.340E-03
581985.05	4198493.91	18307.76095	0.30646	4.327E-03	4.157E-06	4.331E-03
582219.1	4198366.32	18265.06148	0.2559	4.317E-03	3.471E-06	4.320E-03
581631.69	4198813.57	18163.82893	0.25852	4.293E-03	3.507E-06	4.296E-03
581610.61	4199148.09	18118.74912	0.18996	4.282E-03	2.577E-06	4.285E-03
581747.57	4199346.71	18119.20387	0.1722	4.282E-03	2.336E-06	4.284E-03
582271.79	4198345.01	18079.78368	0.25606	4.273E-03	3.473E-06	4.276E-03
581597.22	4199024.52	18032.12274	0.20842	4.262E-03	2.827E-06	4.264E-03
581758.25	4198657.39	17967.92031	0.34615	4.246E-03	4.696E-06	4.251E-03
581706.22	4198697.21	17907.79234	0.30567	4.232E-03	4.146E-06	4.236E-03
582093.03	4198419.56	17744.94773	0.26221	4.194E-03	3.557E-06	4.197E-03
582242.31	4198348.82	17612.04509	0.24941	4.162E-03	3.383E-06	4.166E-03
581990.78	4199433.08	17588.32599	0.18012	4.157E-03	2.443E-06	4.159E-03
582370.86	4199412.78	17576.94095	0.20215	4.154E-03	2.742E-06	4.157E-03

582277.27	4199426.54	17576.1917	0.1968	4.154E-03	2.670E-06	4.156E-03
582049.06	4198442.83	17539.22304	0.27076	4.145E-03	3.673E-06	4.149E-03
581735.95	4199346.71	17509.67615	0.16873	4.138E-03	2.289E-06	4.140E-03
582016.89	4199439.91	17264.21766	0.17923	4.080E-03	2.431E-06	4.082E-03
582302.5	4199427.19	17252.11046	0.19575	4.077E-03	2.655E-06	4.080E-03
581965.89	4199433.32	17246.72079	0.17669	4.076E-03	2.397E-06	4.078E-03
582179.16	4198368.98	17225.71323	0.24491	4.071E-03	3.322E-06	4.074E-03
581594.87	4198942.19	17221.36751	0.22355	4.070E-03	3.032E-06	4.073E-03
581606.01	4199162.99	17222.5655	0.18185	4.070E-03	2.467E-06	4.073E-03
582384.06	4199417.18	17086.64056	0.19867	4.038E-03	2.695E-06	4.041E-03
581660.18	4198735.22	17048.80682	0.26458	4.029E-03	3.589E-06	4.033E-03
581590.71	4199070.45	17048.40574	0.19303	4.029E-03	2.618E-06	4.032E-03
582322.57	4199428.8	16909.65265	0.19411	3.996E-03	2.633E-06	3.999E-03
581942.7	4199433.32	16898.64052	0.17333	3.994E-03	2.351E-06	3.996E-03
581953.69	4198499.08	16862.16778	0.29578	3.985E-03	4.012E-06	3.989E-03
581609.03	4198845.63	16840.61798	0.23849	3.980E-03	3.235E-06	3.983E-03
581594.45	4198915.03	16803.34415	0.2247	3.971E-03	3.048E-06	3.974E-03
581884.95	4198549.05	16759.14472	0.31932	3.961E-03	4.332E-06	3.965E-03
581730.72	4198661.99	16758.61181	0.30884	3.961E-03	4.189E-06	3.965E-03
581829.15	4198591.35	16752.00159	0.337	3.959E-03	4.571E-06	3.964E-03
581596.9	4198895.6	16735.56444	0.22747	3.955E-03	3.086E-06	3.958E-03
581905.99	4198532.52	16715.5062	0.31017	3.950E-03	4.207E-06	3.955E-03
581916.1	4199430.15	16694.11974	0.1708	3.945E-03	2.317E-06	3.948E-03
582404.14	4199419.38	16686.42311	0.19614	3.943E-03	2.661E-06	3.946E-03
581586.25	4198983.38	16664.82329	0.20649	3.938E-03	2.801E-06	3.941E-03
582211.12	4198345.78	16549.45403	0.23498	3.911E-03	3.188E-06	3.914E-03
582110.31	4198393.33	16527.8429	0.23815	3.906E-03	3.231E-06	3.909E-03
581631.69	4198770.84	16481.25372	0.24243	3.895E-03	3.289E-06	3.898E-03
581682.56	4198698.31	16427.225	0.27231	3.882E-03	3.694E-06	3.886E-03
582154.06	4198368.6	16366.27759	0.23612	3.868E-03	3.203E-06	3.871E-03
582031.28	4198438.63	16354.6208	0.25846	3.865E-03	3.506E-06	3.869E-03
581664.65	4199301.25	16312.40505	0.16346	3.855E-03	2.217E-06	3.857E-03
581640.77	4199270.49	16237.30096	0.16514	3.837E-03	2.240E-06	3.840E-03
581586.87	4198928.92	16221.37297	0.21556	3.834E-03	2.924E-06	3.837E-03
582231.7	4199451.01	16153.75374	0.18295	3.818E-03	2.482E-06	3.820E-03
581586.65	4199115.4	16147.27897	0.18001	3.816E-03	2.442E-06	3.819E-03
581580.08	4199018.34	16105.00873	0.19413	3.806E-03	2.633E-06	3.809E-03
581626.45	4199249.44	16084.41265	0.16593	3.801E-03	2.251E-06	3.803E-03
581700.8	4199341.83	16030.67436	0.15972	3.789E-03	2.167E-06	3.791E-03
581679.22	4199322.28	16022.25276	0.16045	3.787E-03	2.177E-06	3.789E-03
582093.35	4198394.02	15905.13119	0.23482	3.759E-03	3.185E-06	3.762E-03
581582.03	4198942.4	15901.59699	0.20892	3.758E-03	2.834E-06	3.761E-03
582179.54	4198348.44	15807.34006	0.22597	3.736E-03	3.065E-06	3.739E-03
581611.48	4199225.13	15800.93743	0.16636	3.734E-03	2.257E-06	3.736E-03
581891.95	4199435.76	15769.48939	0.16369	3.727E-03	2.220E-06	3.729E-03
582293.45	4199449.19	15758.18994	0.1831	3.724E-03	2.484E-06	3.727E-03
582049.06	4198417.62	15685.97108	0.24313	3.707E-03	3.298E-06	3.710E-03
581604.17	4198816.49	15677.0206	0.22384	3.705E-03	3.036E-06	3.708E-03
581575.97	4199041.31	15665.87574	0.1859	3.702E-03	2.522E-06	3.705E-03
581575.97	4198998.46	15658.47083	0.19483	3.701E-03	2.643E-06	3.703E-03
581710.08	4198661.16	15622.67369	0.27947	3.692E-03	3.791E-06	3.696E-03
581575.97	4199058.11	15605.54398	0.18248	3.688E-03	2.475E-06	3.691E-03
581865.1	4199431.86	15494.92148	0.16076	3.662E-03	2.181E-06	3.664E-03
582323.21	4199451.13	15355.06984	0.18121	3.629E-03	2.458E-06	3.631E-03
581583.02	4199152.1	15230.88051	0.16901	3.599E-03	2.293E-06	3.602E-03
581633.64	4198736.84	15213.64998	0.23118	3.595E-03	3.136E-06	3.599E-03
581871.43	4198537.93	15176.41386	0.29364	3.587E-03	3.983E-06	3.591E-03
581663.29	4198696.94	15171.45812	0.2481	3.585E-03	3.365E-06	3.589E-03
581598.24	4199210.59	15174.80439	0.16351	3.586E-03	2.218E-06	3.588E-03
581577.4	4198913.76	15161.86689	0.20555	3.583E-03	2.788E-06	3.586E-03
581843.87	4199431.13	15089.11011	0.15705	3.566E-03	2.130E-06	3.568E-03
582021.28	4199469.44	15072.00358	0.164	3.562E-03	2.225E-06	3.564E-03
582228.4	4199467.51	15070.75285	0.17407	3.562E-03	2.361E-06	3.564E-03
582154.44	4198348.06	15020.07921	0.21682	3.550E-03	2.941E-06	3.553E-03
581578.11	4198897.39	15017.73916	0.20618	3.549E-03	2.797E-06	3.552E-03
581926.54	4198493.59	14995.97896	0.27336	3.544E-03	3.708E-06	3.548E-03
581571.17	4199085.88	14978.54896	0.17415	3.540E-03	2.362E-06	3.542E-03
582003.8	4198436.69	14954.2053	0.24527	3.534E-03	3.327E-06	3.537E-03
581785.77	4198597.18	14925.2639	0.30076	3.527E-03	4.080E-06	3.531E-03
581958.22	4198468.05	14877.42647	0.25907	3.516E-03	3.514E-06	3.519E-03
582273.39	4199466.34	14823.17263	0.17429	3.503E-03	2.364E-06	3.506E-03
581610	4198770.84	14804.91131	0.21737	3.499E-03	2.949E-06	3.502E-03
582408.36	4199449.41	14672.3666	0.17861	3.468E-03	2.423E-06	3.470E-03
581573.34	4199134.76	14658.83432	0.16627	3.464E-03	2.255E-06	3.467E-03
582111.83	4198364.04	14635.58912	0.21813	3.459E-03	2.959E-06	3.462E-03
581815.23	4198568.36	14402.7523	0.29276	3.404E-03	3.971E-06	3.408E-03
581822.15	4199434.54	14388.21201	0.15014	3.400E-03	2.037E-06	3.402E-03
582094.97	4198367.83	14298.92539	0.2161	3.379E-03	2.931E-06	3.382E-03
581578.92	4198845.63	14265.20417	0.20388	3.371E-03	2.766E-06	3.374E-03
581683.66	4198658.68	14207.65839	0.24704	3.358E-03	3.351E-06	3.361E-03
582344.89	4199466.98	14200.16327	0.17215	3.356E-03	2.335E-06	3.358E-03
581755.34	4198606.24	14183.18782	0.28118	3.352E-03	3.814E-06	3.356E-03
581986.67	4198435.4	14125.27971	0.23738	3.338E-03	3.220E-06	3.341E-03
582299.27	4199475.07	14107.58735	0.16939	3.334E-03	2.298E-06	3.336E-03
582049.38	4198392.08	14097.17283	0.22019	3.332E-03	2.987E-06	3.335E-03
581733.97	4198618.22	14054.88433	0.26979	3.322E-03	3.660E-06	3.325E-03
581582.8	4198817.78	14047.91015	0.20148	3.320E-03	2.733E-06	3.323E-03
582060.82	4199489.94	13974.30225	0.15739	3.303E-03	2.135E-06	3.305E-03
581571.32	4199173.88	13879.04438	0.15755	3.280E-03	2.137E-06	3.282E-03
582080.1	4199492.62	13874.6062	0.1574	3.279E-03	2.135E-06	3.281E-03
581749.12	4199412.28	13779.83775	0.14384	3.257E-03	1.951E-06	3.259E-03
581969.55	4199483.11	13737.59176	0.15229	3.247E-03	2.066E-06	3.249E-03
581635.5	4198698.04	13703.4533	0.21755	3.239E-03	2.951E-06	3.241E-03
582317.71	4199480.57	13662.17398	0.16628	3.229E-03	2.256E-06	3.231E-03
581973.09	4198437.01	13647.17983	0.233	3.225E-03	3.161E-06	3.228E-03
581794.09	4199436.01	13645.26691	0.14338	3.225E-03	1.945E-06	3.227E-03
581552.66	4198997.78	13642.51494	0.17499	3.224E-03	2.374E-06	3.226E-03
582014.45	4199492.38	13580.1753	0.15264	3.209E-03	2.071E-06	3.211E-03
581713.9	4198622.41	13525.42979	0.25215	3.196E-03	3.420E-06	3.200E-03
581553.34	4199081.42	13519.40338	0.16292	3.195E-03	2.210E-06	3.197E-03
581607.09	4198735.55	13490.30638	0.20371	3.188E-03	2.763E-06	3.191E-03
581933.43	4199480.18	13489.43146	0.14927	3.188E-03	2.025E-06	3.190E-03
582112.21	4198343.49	13455.54731	0.19779	3.180E-03	2.683E-06	3.183E-03
582029.66	4198393.05	13384.69996	0.21582	3.163E-03	2.928E-06	3.166E-03
581549.91	4199059.14	13367.39506	0.16375	3.159E-03	2.221E-06	3.161E-03
581587.34	4198772.46	13336.62976	0.19552	3.152E-03	2.652E-06	3.154E-03
581892.27	4198491.97	13322.42711	0.25272	3.148E-03	3.428E-06	3.152E-03
581661.92	4198659.79	13286.43879	0.2265	3.140E-03	3.072E-06	3.143E-03
581627.64	4199322.39	13269.5734	0.14229	3.136E-03	1.930E-06	3.138E-03
581613.44	4199302.47	13253.84091	0.14317	3.132E-03	1.942E-06	3.134E-03
582291.5	4199492.54	13217.89862	0.16123	3.124E-03	2.187E-06	3.126E-03
581913.91	4199480.91	13186.65869	0.1464	3.116E-03	1.986E-06	3.118E-03
581768.95	4199434.06	13140.49498	0.13953	3.105E-03	1.893E-06	3.107E-03
582094	4198347.14	13091.69366	0.19553	3.094E-03	2.652E-06	3.097E-03
581597.98	4199281.04	13091.69496	0.14329	3.094E-03	1.944E-06	3.096E-03
582010.14	4198398.35	12943.85476	0.21326	3.059E-03	2.893E-06	3.062E-03
581553.58	4199149.28	12943.90994	0.15203	3.059E-03	2.062E-06	3.061E-03
581635.02	4199340.84	12924.8094	0.13902	3.055E-03	1.886E-06	3.056E-03
581559.82	4198843.68	12921.24478	0.18448	3.054E-03	2.502E-06	3.056E-03
581771.2	4198572.25	12903.29314	0.26014	3.049E-03	3.529E-06	3.053E-03
581889.26	4199479.93	12896.89384	0.14343	3.048E-03	1.946E-06	3.050E-03
581752.75	4198582.93	12832.35033	0.25434	3.033E-03	3.450E-06	3.036E-03
581670.14	4199379.19	12797.79701	0.13698	3.024E-03	1.858E-06	3.026E-03
582340.36	4199494.48	12782.64246	0.15921	3.021E-03	2.160E-06	3.023E-03
581803.9	4198547.65	12770.87292	0.26111	3.018E-03	3.542E-06	3.022E-03
582051	4198365.89	12705.73553	0.19966	3.003E-03	2.708E-06	3.005E-03
581539.29	4199025.89	12660.58901	0.16236	2.992E-03	2.202E-06	2.994E-03
581865.1	4199478.47	12626.60698	0.14057	2.984E-03	1.907E-06	2.986E-03
581581.7	4199266.07	12582.26201	0.14076	2.974E-03	1.909E-06	2.975E-03

581747.72	4199434.79	12576.06202	0.13556	2.972E-03	1.839E-06	2.974E-03
581571.5	4199244.58	12502.8194	0.14144	2.955E-03	1.919E-06	2.957E-03
582270.47	4199510.01	12484.7376	0.15378	2.951E-03	2.086E-06	2.953E-03
581943.97	4198436.38	12448.62994	0.22033	2.942E-03	2.989E-06	2.945E-03
581536.54	4198980.29	12445.59114	0.16576	2.941E-03	2.249E-06	2.944E-03
581557.87	4198816.81	12406.1007	0.17907	2.932E-03	2.429E-06	2.934E-03
581865.44	4198494.56	12400.0195	0.24092	2.930E-03	3.268E-06	2.934E-03
581609.63	4198696.11	12347.77248	0.19397	2.918E-03	2.631E-06	2.921E-03
581584.42	4198736.19	12262.41911	0.18444	2.898E-03	2.502E-06	2.900E-03
581681.78	4198619.44	12241.87019	0.22112	2.893E-03	3.000E-06	2.896E-03
581635.5	4198659.79	12197.6113	0.20221	2.883E-03	2.743E-06	2.885E-03
581537.11	4199109.97	12185.36247	0.14938	2.880E-03	2.026E-06	2.882E-03
581840.45	4199480.42	12161.22823	0.1361	2.874E-03	1.846E-06	2.876E-03
581993.01	4198394.15	12128.47861	0.20403	2.866E-03	2.768E-06	2.869E-03
581723.32	4199433.08	12052.73128	0.13147	2.848E-03	1.783E-06	2.850E-03
581645.38	4199376.64	12012.04644	0.13117	2.839E-03	1.779E-06	2.841E-03
581532.63	4199094.65	11992.80349	0.14901	2.834E-03	2.021E-06	2.836E-03
581728.47	4198580.67	11955.47425	0.2335	2.825E-03	3.167E-06	2.829E-03
581969.84	4199516.18	11954.95367	0.1387	2.825E-03	1.881E-06	2.827E-03
581554.57	4199222.66	11941.90904	0.1388	2.822E-03	1.883E-06	2.824E-03
581528.66	4199048.17	11930.59387	0.15235	2.820E-03	2.067E-06	2.822E-03
581929.72	4198435.92	11908.25484	0.2145	2.814E-03	2.910E-06	2.817E-03
582040.41	4199527	11910.8065	0.1403	2.815E-03	1.903E-06	2.817E-03
582018.47	4198369.64	11835.76675	0.19416	2.797E-03	2.634E-06	2.800E-03
582290.53	4199522.31	11817.18022	0.14842	2.793E-03	2.013E-06	2.795E-03
582065.94	4199531.2	11817.21641	0.14029	2.793E-03	1.903E-06	2.795E-03
581561.11	4198770.19	11792.64419	0.17358	2.787E-03	2.355E-06	2.789E-03
581818.74	4199481.4	11783.059	0.13156	2.785E-03	1.785E-06	2.786E-03
581678.82	4199412.89	11709.17357	0.12847	2.767E-03	1.743E-06	2.769E-03
581663.68	4198620.74	11690.89484	0.20792	2.763E-03	2.820E-06	2.766E-03
582050.03	4198345.2	11671.19481	0.18024	2.758E-03	2.445E-06	2.761E-03
581706.15	4198588.41	11654.35118	0.22125	2.754E-03	3.001E-06	2.757E-03
581975.87	4198396.09	11645.4745	0.19992	2.752E-03	2.712E-06	2.755E-03
582341.98	4199519.4	11641.97659	0.14857	2.751E-03	2.015E-06	2.753E-03
581526	4199084.85	11631.55465	0.14667	2.749E-03	1.990E-06	2.751E-03
582359.45	4199517.78	11602.50542	0.14875	2.742E-03	2.018E-06	2.744E-03
581542.42	4199205.3	11525.62833	0.13639	2.724E-03	1.850E-06	2.726E-03
581535.86	4198843.36	11512.07758	0.16451	2.721E-03	2.232E-06	2.723E-03
581526.79	4199116.24	11501.62758	0.14318	2.718E-03	1.942E-06	2.720E-03
581842.48	4198492.29	11496.83674	0.22785	2.717E-03	3.091E-06	2.720E-03
582229.63	4199536.69	11484.82389	0.14307	2.714E-03	1.941E-06	2.716E-03
582378.86	4199520.37	11375.40089	0.14711	2.688E-03	1.996E-06	2.690E-03
582015.19	4199536.6	11335.52031	0.1349	2.679E-03	1.830E-06	2.681E-03
581517.35	4199022.46	11294.88214	0.14862	2.669E-03	2.016E-06	2.671E-03
581587.89	4198692.53	11282.24126	0.17651	2.666E-03	2.394E-06	2.669E-03
582318.36	4199533.63	11195.5338	0.14351	2.646E-03	1.947E-06	2.648E-03
581592.04	4199340.29	11148.19044	0.12584	2.635E-03	1.707E-06	2.636E-03
581608.8	4198658.68	11132.68573	0.18181	2.631E-03	2.466E-06	2.633E-03
582290.86	4199539.13	11120.17882	0.14185	2.628E-03	1.924E-06	2.630E-03
581561.11	4198735.22	11112.72528	0.16697	2.626E-03	2.265E-06	2.629E-03
581534.56	4198814.54	11102.21328	0.16141	2.624E-03	2.190E-06	2.626E-03
581763.54	4199476.24	11068.87856	0.1245	2.616E-03	1.689E-06	2.618E-03
581906.37	4198434.52	11063.06929	0.20482	2.615E-03	2.778E-06	2.617E-03
581990.67	4198371.26	11051.54327	0.18737	2.612E-03	2.542E-06	2.614E-03
581516.42	4199089.9	11049.83106	0.14123	2.611E-03	1.916E-06	2.613E-03
581788.48	4199487.99	11008.70125	0.12448	2.602E-03	1.689E-06	2.603E-03
582027.4	4198344.23	10982.20574	0.17328	2.595E-03	2.351E-06	2.598E-03
581639.11	4198622.03	10967.67193	0.18978	2.592E-03	2.574E-06	2.595E-03
581619.35	4199385.32	10852.48059	0.12204	2.565E-03	1.655E-06	2.566E-03
581526.36	4199189.89	10849.64556	0.13177	2.564E-03	1.787E-06	2.566E-03
581680.49	4198584.85	10808.38764	0.20107	2.554E-03	2.728E-06	2.557E-03
582231.34	4199554.5	10767.89356	0.13644	2.545E-03	1.851E-06	2.547E-03
581672.95	4199434.58	10757.05103	0.12119	2.542E-03	1.644E-06	2.544E-03
582271.12	4199551.75	10724.77729	0.13737	2.535E-03	1.863E-06	2.536E-03
581507.75	4199049.2	10719.93922	0.14098	2.533E-03	1.912E-06	2.535E-03
581569.1	4199322.7	10664.11552	0.12294	2.520E-03	1.668E-06	2.522E-03
581965.94	4199544.71	10652.63284	0.12809	2.518E-03	1.738E-06	2.519E-03
581509.1	4199094.3	10636.09479	0.13702	2.514E-03	1.859E-06	2.515E-03
581973.54	4198373.2	10627.71903	0.1839	2.512E-03	2.495E-06	2.514E-03
581505	4199000.18	10621.48977	0.14443	2.510E-03	1.959E-06	2.512E-03
581784.47	4198512.36	10615.0105	0.218	2.509E-03	2.957E-06	2.512E-03
581754.04	4198531.78	10601.71353	0.21518	2.505E-03	2.919E-06	2.508E-03
581888.62	4198435.92	10581.38581	0.19964	2.501E-03	2.708E-06	2.503E-03
581534.24	4198774.07	10559.12363	0.15561	2.495E-03	2.111E-06	2.498E-03
582357.19	4199545.61	10532.41954	0.13821	2.489E-03	1.875E-06	2.491E-03
581555.82	4199303.56	10518.54655	0.12281	2.486E-03	1.666E-06	2.488E-03
581731.06	4198542.47	10472.32113	0.20762	2.475E-03	2.816E-06	2.478E-03
582020.89	4199558.83	10440.87175	0.12752	2.467E-03	1.730E-06	2.469E-03
581563.67	4198697.21	10424.39959	0.16141	2.464E-03	2.190E-06	2.466E-03
581938.61	4199545.91	10382.58355	0.12523	2.454E-03	1.699E-06	2.455E-03
581586.79	4198658.96	10360.24106	0.1674	2.448E-03	2.271E-06	2.451E-03
581932.29	4198397.15	10356.14158	0.18733	2.447E-03	2.541E-06	2.450E-03
581542.29	4199280.83	10354.88437	0.12284	2.447E-03	1.666E-06	2.449E-03
582156.91	4199570.36	10313.39748	0.12981	2.437E-03	1.761E-06	2.439E-03
581510.3	4199163.19	10286.6369	0.12844	2.431E-03	1.742E-06	2.433E-03
581651.51	4199433.31	10282.50551	0.1172	2.430E-03	1.590E-06	2.432E-03
581837.31	4198465.46	10264.88105	0.20546	2.426E-03	2.787E-06	2.429E-03
582001.54	4198343.26	10243.27722	0.16606	2.421E-03	2.253E-06	2.423E-03
581909.48	4199543.81	10202.87026	0.12304	2.411E-03	1.669E-06	2.413E-03
581593.37	4199379	10200.77473	0.11705	2.411E-03	1.588E-06	2.412E-03
581656.57	4198584.85	10195.79467	0.18595	2.410E-03	2.522E-06	2.412E-03
582342.63	4199557.58	10186.07895	0.13432	2.407E-03	1.822E-06	2.409E-03
582398.28	4199549.49	10177.29106	0.13567	2.405E-03	1.840E-06	2.407E-03
582292.8	4199565.67	10136.80152	0.13232	2.396E-03	1.795E-06	2.397E-03
581612.61	4198620.09	10112.70969	0.17204	2.390E-03	2.334E-06	2.392E-03
582188.14	4199575.73	10092.62899	0.12866	2.385E-03	1.745E-06	2.387E-03
581536.18	4198737.16	10087.10956	0.1515	2.384E-03	2.055E-06	2.386E-03
582168.13	4199576.71	10079.46091	0.12795	2.382E-03	1.736E-06	2.384E-03
581495.4	4199071.83	10038.92327	0.1327	2.372E-03	1.800E-06	2.374E-03
582215.72	4199576.22	10025.85158	0.12884	2.369E-03	1.748E-06	2.371E-03
581886.96	4199543.51	9996.94251	0.12078	2.363E-03	1.638E-06	2.364E-03
582205.96	4199577.93	9987.31065	0.12818	2.360E-03	1.739E-06	2.362E-03
581869.7	4198433.35	9961.2281	0.19149	2.354E-03	2.598E-06	2.357E-03
581526.97	4199264.49	9952.3929	0.12051	2.352E-03	1.635E-06	2.354E-03
582229.63	4199577.44	9951.31963	0.12854	2.352E-03	1.744E-06	2.354E-03
582317.06	4199568.58	9935.32429	0.13104	2.348E-03	1.778E-06	2.350E-03
581508.99	4198814.22	9919.2499	0.14534	2.344E-03	1.972E-06	2.346E-03
581723.3	4199488.56	9917.09644	0.11535	2.344E-03	1.565E-06	2.345E-03
581704.19	4198542.47	9871.91756	0.19251	2.333E-03	2.611E-06	2.336E-03
581935.1	4198380.57	9840.79171	0.17804	2.326E-03	2.415E-06	2.328E-03
582136.17	4199584.27	9820.04209	0.12466	2.321E-03	1.691E-06	2.322E-03
581773.47	4198496.17	9766.1408	0.20172	2.308E-03	2.736E-06	2.311E-03
582378.54	4199565.34	9752.93927	0.13086	2.305E-03	1.775E-06	2.307E-03
581514.49	4198772.13	9703.13518	0.14372	2.293E-03	1.950E-06	2.295E-03
581635.88	4198584.85	9696.7248	0.17326	2.292E-03	2.350E-06	2.294E-03
581495.54	4199148	9697.13604	0.12432	2.292E-03	1.686E-06	2.293E-03
581979.88	4198342.62	9669.23415	0.16027	2.285E-03	2.174E-06	2.287E-03
581906.37	4198397.15	9658.79695	0.17991	2.283E-03	2.440E-06	2.285E-03
581510.88	4199240.23	9578.78843	0.11875	2.264E-03	1.611E-06	2.265E-03
581866.24	4199549.82	9571.39189	0.1167	2.262E-03	1.583E-06	2.264E-03
581571.44	4199377.2	9566.18447	0.11203	2.261E-03	1.520E-06	2.262E-03
581560.37	4198661.71	9555.05082	0.15095	2.258E-03	2.048E-06	2.260E-03
581623.94	4199436.63	9535.40063	0.11097	2.253E-03	1.505E-06	2.255E-03
581483.06	4199051.94	9521.17192	0.12934	2.250E-03	1.755E-06	2.252E-03
582294.09	4199585.08	9500.72941	0.12596	2.245E-03	1.709E-06	2.247E-03
581854.75	4198430.31	9490.53423	0.18702	2.243E-03	2.537E-06	2.245E-03
581840.41	4199545.31	9477.19645	0.1152	2.240E-03	1.563E-06	2.241E-03
581684.37	4198542.51	9460.35326	0.18219	2.236E-03	2.471E-06	2.238E-03
582013.09	4199584.95	9452.00188	0.11874	2.234E-03	1.611E-06	2.235E-03

581731.38	4198512.04	9428.57836	0.19008	2.228E-03	2.578E-06	2.231E-03
582272.41	4199590.26	9415.6221	0.12447	2.225E-03	1.688E-06	2.227E-03
581589.33	4198617.83	9403.64396	0.15821	2.222E-03	2.146E-06	2.225E-03
581501.69	4199226.19	9348.3003	0.11732	2.209E-03	1.591E-06	2.211E-03
581533.12	4198697.21	9328.03872	0.14386	2.204E-03	1.951E-06	2.206E-03
582321.27	4199588.64	9289.20293	0.12455	2.195E-03	1.690E-06	2.197E-03
582407.66	4199576.34	9275.6588	0.12652	2.192E-03	1.716E-06	2.194E-03
581909.64	4198382.43	9264.87346	0.17246	2.190E-03	2.339E-06	2.192E-03
581482.73	4199126.95	9254.52956	0.12151	2.187E-03	1.648E-06	2.189E-03
581473.81	4199020.06	9189.3544	0.12709	2.172E-03	1.724E-06	2.173E-03
581615.19	4198583.89	9183.52197	0.1619	2.170E-03	2.196E-06	2.173E-03
581813.99	4199546.51	9169.84431	0.1119	2.167E-03	1.518E-06	2.169E-03
581510.93	4198738.78	9165.27804	0.13794	2.166E-03	1.871E-06	2.168E-03
581673.46	4199486.66	9152.08437	0.10814	2.163E-03	1.467E-06	2.164E-03
581930.19	4198362.58	9133.3556	0.16435	2.158E-03	2.229E-06	2.161E-03
582354.27	4199590.26	9107.26083	0.12352	2.152E-03	1.676E-06	2.154E-03
581533.96	4199338.71	9099.53484	0.10999	2.150E-03	1.492E-06	2.152E-03
581488.27	4198814.22	9097.25428	0.13417	2.150E-03	1.820E-06	2.152E-03
581833.73	4198431.01	9033.86364	0.18264	2.135E-03	2.478E-06	2.137E-03
581661.09	4198543.16	9021.09241	0.17082	2.132E-03	2.317E-06	2.134E-03
581966.24	4199590.36	9013.15045	0.11404	2.130E-03	1.547E-06	2.132E-03
581487.39	4199204.23	8967.09467	0.11498	2.119E-03	1.560E-06	2.121E-03
581721.79	4199518.59	8955.77717	0.10763	2.117E-03	1.460E-06	2.118E-03
581707.43	4198510.42	8933.07128	0.17794	2.111E-03	2.414E-06	2.114E-03
582230.36	4199610.14	8933.01231	0.11843	2.111E-03	1.607E-06	2.113E-03
581539.18	4198662.81	8930.32712	0.14016	2.110E-03	1.901E-06	2.112E-03
581791.16	4199547.42	8910.24636	0.10908	2.106E-03	1.480E-06	2.107E-03
581990.56	4199600.27	8843.23539	0.11291	2.090E-03	1.532E-06	2.091E-03
582136.17	4199615.26	8838.78155	0.11532	2.089E-03	1.564E-06	2.090E-03
581515.33	4199315.22	8828.70272	0.109	2.086E-03	1.479E-06	2.088E-03
581591.18	4199435	8824.26246	0.10495	2.085E-03	1.424E-06	2.087E-03
582192.78	4199617.46	8774.87363	0.11592	2.074E-03	1.572E-06	2.075E-03
582274.36	4199612.26	8771.3898	0.1179	2.073E-03	1.599E-06	2.075E-03
581755.98	4198474.48	8744.00978	0.1817	2.066E-03	2.465E-06	2.069E-03
581811.55	4198435.92	8718.97991	0.17832	2.061E-03	2.419E-06	2.063E-03
581562.18	4198618.8	8718.71119	0.14183	2.060E-03	1.924E-06	2.062E-03
582405.39	4199596.73	8711.12974	0.12045	2.059E-03	1.634E-06	2.060E-03
581487.62	4198770.51	8705.9705	0.12983	2.057E-03	1.761E-06	2.059E-03
581588.36	4198589.06	8699.63818	0.15019	2.056E-03	2.037E-06	2.058E-03
582381.78	4199601.26	8688.38461	0.1197	2.053E-03	1.624E-06	2.055E-03
581465.81	4199102.64	8685.32658	0.11696	2.053E-03	1.587E-06	2.054E-03
581940.11	4199595.76	8681.28436	0.11062	2.052E-03	1.501E-06	2.053E-03
582176.92	4199621.61	8666.91255	0.11448	2.048E-03	1.553E-06	2.050E-03
582341.98	4199608.05	8663.73789	0.1185	2.047E-03	1.607E-06	2.049E-03
581502.57	4199294.8	8660.08285	0.10837	2.047E-03	1.470E-06	2.048E-03
581932.76	4198344.83	8653.71647	0.15148	2.045E-03	2.055E-06	2.047E-03
581915.19	4199590.96	8655.22361	0.10993	2.045E-03	1.491E-06	2.047E-03
581637.98	4199482.57	8654.5475	0.10344	2.045E-03	1.403E-06	2.047E-03
582154.96	4199622.58	8639.58342	0.11375	2.042E-03	1.543E-06	2.043E-03
582212.55	4199621.61	8639.11992	0.11501	2.042E-03	1.560E-06	2.043E-03
582297.65	4199615.17	8625.23621	0.11696	2.038E-03	1.587E-06	2.040E-03
581762.94	4199547.12	8617.82936	0.10589	2.037E-03	1.436E-06	2.038E-03
581860.83	4198397.15	8611.55378	0.16749	2.035E-03	2.272E-06	2.037E-03
581640.08	4198542.19	8606.06686	0.16	2.034E-03	2.170E-06	2.036E-03
581541.1	4199381.7	8603.9803	0.10436	2.033E-03	1.416E-06	2.035E-03
582316.74	4199616.14	8539.0834	0.11653	2.018E-03	1.581E-06	2.020E-03
581907.3	4198359.55	8536.61492	0.15677	2.017E-03	2.127E-06	2.020E-03
581892.97	4199589.76	8528.97067	0.10836	2.016E-03	1.470E-06	2.017E-03
581518.14	4199345.09	8513.61874	0.10496	2.012E-03	1.424E-06	2.013E-03
581684.04	4198508.57	8483.21793	0.16664	2.005E-03	2.260E-06	2.007E-03
582229.87	4199626.97	8470.49285	0.11368	2.002E-03	1.542E-06	2.003E-03
581470.28	4199184.06	8467.47025	0.11089	2.001E-03	1.504E-06	2.003E-03
581507.8	4198691.71	8454.57026	0.13075	1.998E-03	1.774E-06	2.000E-03
581490.21	4198735.22	8436.82672	0.12801	1.994E-03	1.736E-06	1.996E-03
581456.47	4199081.81	8403.02085	0.11552	1.986E-03	1.567E-06	1.987E-03
582356.21	4199617.43	8368.55964	0.11565	1.978E-03	1.569E-06	1.979E-03
581674.74	4199518.06	8347.6347	0.10134	1.973E-03	1.375E-06	1.974E-03
581487.76	4199278.72	8345.65752	0.106	1.972E-03	1.438E-06	1.974E-03
581733.65	4198471.57	8292.64576	0.17107	1.960E-03	2.321E-06	1.962E-03
581868.04	4199591.86	8283.97954	0.10564	1.958E-03	1.433E-06	1.959E-03
581564.96	4199435.51	8232.98061	0.09986	1.946E-03	1.355E-06	1.947E-03
581727.8	4199548.02	8215.38628	0.10158	1.942E-03	1.378E-06	1.943E-03
581515.24	4198659.51	8210.44856	0.12828	1.940E-03	1.740E-06	1.942E-03
581459.73	4199166.45	8191.31376	0.10906	1.936E-03	1.479E-06	1.937E-03
582404.89	4199617.33	8187.23772	0.11471	1.935E-03	1.556E-06	1.936E-03
581540.2	4198618.8	8184.71636	0.12819	1.934E-03	1.739E-06	1.936E-03
581865.26	4198377.53	8176.59181	0.15898	1.932E-03	2.157E-06	1.935E-03
581612.61	4198544.45	8163.39963	0.14864	1.929E-03	2.016E-06	1.931E-03
581662.71	4198509.22	8161.84251	0.15749	1.929E-03	2.136E-06	1.931E-03
581841.44	4198394.34	8159.58732	0.16126	1.928E-03	2.187E-06	1.931E-03
582432.25	4199614.85	8140.96003	0.11468	1.924E-03	1.556E-06	1.926E-03
581906.84	4198343.9	8102.34937	0.14543	1.915E-03	1.973E-06	1.917E-03
581562.18	4198586.15	8070.01087	0.13505	1.907E-03	1.832E-06	1.909E-03
581519.47	4199379	8069.45438	0.10005	1.907E-03	1.357E-06	1.908E-03
581472.44	4199254.47	8059.75223	0.10444	1.905E-03	1.417E-06	1.906E-03
581841.01	4199593.66	8037.6553	0.10281	1.900E-03	1.395E-06	1.901E-03
581805.94	4198413.96	8030.58319	0.16571	1.898E-03	2.248E-06	1.900E-03
581600.71	4199484.11	7981.57471	0.09722	1.886E-03	1.319E-06	1.888E-03
581488.54	4198696.39	7968.95813	0.12289	1.883E-03	1.667E-06	1.885E-03
581547.9	4199433.48	7899.81988	0.09704	1.867E-03	1.316E-06	1.868E-03
581438.46	4199060.54	7854.77396	0.11006	1.856E-03	1.493E-06	1.858E-03
581459.77	4198768.89	7826.37068	0.11759	1.850E-03	1.595E-06	1.851E-03
581706.78	4198468.66	7820.19254	0.15948	1.848E-03	2.163E-06	1.850E-03
581683.42	4199546.64	7772.10343	0.09665	1.837E-03	1.311E-06	1.838E-03
581841.44	4198378	7760.05765	0.15379	1.834E-03	2.086E-06	1.836E-03
582146.9	4199657.72	7725.31999	0.10442	1.826E-03	1.416E-06	1.827E-03
581587.07	4198544.77	7721.92718	0.13307	1.825E-03	1.805E-06	1.827E-03
581634.59	4198508.57	7714.13039	0.14642	1.823E-03	1.986E-06	1.825E-03
581457.13	4199236.34	7709.81351	0.10188	1.822E-03	1.382E-06	1.823E-03
581863.16	4198359.55	7700.9578	0.15038	1.820E-03	2.040E-06	1.822E-03
581441.93	4199148	7694.22714	0.10464	1.818E-03	1.419E-06	1.820E-03
582185.7	4199659.92	7687.38606	0.10465	1.817E-03	1.420E-06	1.818E-03
582167.89	4199660.41	7673.79805	0.10421	1.814E-03	1.414E-06	1.815E-03
581515.63	4198619.44	7633.04318	0.11873	1.804E-03	1.611E-06	1.806E-03
582206.45	4199662.6	7619.11212	0.10429	1.801E-03	1.415E-06	1.802E-03
581687.28	4198470.43	7595.35162	0.15288	1.795E-03	2.074E-06	1.797E-03
581792.36	4199596.37	7594.22275	0.09771	1.795E-03	1.325E-06	1.796E-03
581428	4199033.85	7585.6612	0.10764	1.793E-03	1.460E-06	1.794E-03
581460.42	4198735.87	7584.2548	0.11572	1.792E-03	1.570E-06	1.794E-03
581812.79	4199603.27	7583.57276	0.09808	1.792E-03	1.330E-06	1.794E-03
581538.26	4198585.82	7579.40356	0.12191	1.791E-03	1.654E-06	1.793E-03
581482.14	4199341.26	7570.97664	0.09642	1.789E-03	1.308E-06	1.791E-03
582300.82	4199658.73	7567.27868	0.10559	1.788E-03	1.432E-06	1.790E-03
582223.53	4199664.8	7556.18893	0.10394	1.786E-03	1.410E-06	1.787E-03
581767.14	4199590.96	7524.36704	0.09647	1.778E-03	1.309E-06	1.780E-03
581487.99	4198658.96	7520.94936	0.11724	1.777E-03	1.590E-06	1.779E-03
582065.98	4199660.58	7512.10043	0.10125	1.775E-03	1.373E-06	1.777E-03
582391	4199651.3	7468.93393	0.10637	1.765E-03	1.443E-06	1.767E-03
581616.16	4198509.22	7455.80529	0.13822	1.762E-03	1.875E-06	1.764E-03
581806.88	4198388.27	7443.81219	0.15434	1.759E-03	2.094E-06	1.761E-03
581444.37	4199218.73	7433.36541	0.0998	1.757E-03	1.354E-06	1.758E-03
581467.08	4198694.19	7391.39916	0.11426	1.747E-03	1.550E-06	1.748E-03
582148.61	4199672.36	7389.20183	0.10098	1.746E-03	1.370E-06	1.748E-03
582036.88	4199662.88	7371.41163	0.09956	1.742E-03	1.351E-06	1.743E-03
581419.33	4199014.86	7362.48658	0.10529	1.740E-03	1.428E-06	1.741E-03
582364.32	4199660.76	7355.38711	0.10454	1.738E-03	1.418E-06	1.740E-03
581565.74	4198543.8	7344.81539	0.12387	1.736E-03	1.680E-06	1.737E-03
581520.14	4199431.95	7339.74884	0.09221	1.735E-03	1.251E-06	1.736E-03
582326.15	4199667.18	7327.5599	0.10344	1.732E-03	1.403E-06	1.733E-03

581419.7	4199048.41	7323.68672	0.10397	1.731E-03	1.410E-06	1.732E-03
581426.74	4199127.6	7319.2735	0.10111	1.730E-03	1.372E-06	1.731E-03
581689.03	4199570.38	7306.7944	0.09268	1.727E-03	1.257E-06	1.728E-03
581862.93	4198340.86	7282.63561	0.14254	1.721E-03	1.934E-06	1.723E-03
581840.51	4198357.21	7281.85969	0.14484	1.721E-03	1.965E-06	1.723E-03
582420.34	4199655.96	7276.81921	0.1047	1.720E-03	1.420E-06	1.721E-03
581594.84	4199516.78	7267.77693	0.09072	1.718E-03	1.231E-06	1.719E-03
581786.09	4198394.81	7264.84297	0.15336	1.717E-03	2.080E-06	1.719E-03
581486.99	4199381.59	7258.07071	0.09266	1.715E-03	1.257E-06	1.717E-03
582438.62	4199654.37	7248.2914	0.10466	1.713E-03	1.420E-06	1.714E-03
581987.56	4199660.33	7244.93343	0.09783	1.712E-03	1.327E-06	1.714E-03
581660.77	4198469.78	7240.78516	0.1431	1.711E-03	1.941E-06	1.713E-03
582013.39	4199665.13	7238.01988	0.09801	1.711E-03	1.330E-06	1.712E-03
581518.22	4198587.44	7215.62825	0.11511	1.705E-03	1.561E-06	1.707E-03
582228.9	4199682.12	7175.08282	0.09993	1.696E-03	1.356E-06	1.697E-03
581411.33	4198993.26	7162.91933	0.10316	1.693E-03	1.399E-06	1.694E-03
581430.84	4199197.29	7155.81578	0.09763	1.691E-03	1.324E-06	1.692E-03
581434.84	4198768.25	7153.09749	0.10818	1.690E-03	1.467E-06	1.692E-03
581742.81	4199599.67	7141.82803	0.09243	1.688E-03	1.254E-06	1.689E-03
581592.57	4198509.54	7123.12102	0.12813	1.683E-03	1.738E-06	1.685E-03
581964.14	4199661.23	7123.32041	0.09639	1.683E-03	1.308E-06	1.685E-03
582409.42	4199665.89	7115.12832	0.10264	1.682E-03	1.392E-06	1.683E-03
582192.29	4199686.03	7113.91401	0.09868	1.681E-03	1.339E-06	1.683E-03
582146.17	4199685.3	7106.617	0.09799	1.679E-03	1.329E-06	1.681E-03
581550.3	4199485.99	7103.3296	0.08917	1.679E-03	1.210E-06	1.680E-03
582212.3	4199686.52	7097.69477	0.09881	1.677E-03	1.340E-06	1.679E-03
582171.55	4199687.01	7088.52314	0.09812	1.675E-03	1.331E-06	1.677E-03
581490.1	4198617.5	7067.46034	0.10957	1.670E-03	1.486E-06	1.672E-03
582389.99	4199672.24	7051.38227	0.10154	1.666E-03	1.377E-06	1.668E-03
582292.71	4199684.74	7046.1289	0.09961	1.665E-03	1.351E-06	1.667E-03
581454.32	4199322.62	7038.59222	0.09187	1.663E-03	1.246E-06	1.665E-03
581465.15	4198661.44	7027.51818	0.1094	1.661E-03	1.484E-06	1.662E-03
581830.5	4199633.3	7017.51004	0.09326	1.658E-03	1.265E-06	1.660E-03
581413.5	4199111.32	7009.56183	0.09782	1.657E-03	1.327E-06	1.658E-03
581542.46	4198543.48	6962.00275	0.11612	1.645E-03	1.575E-06	1.647E-03
581436.79	4198731.34	6959.14556	0.10686	1.645E-03	1.450E-06	1.646E-03
581444.62	4199300.42	6957.24208	0.09194	1.644E-03	1.247E-06	1.645E-03
581940.11	4199663.93	6954.40421	0.09446	1.644E-03	1.281E-06	1.645E-03
581636.53	4198470.1	6946.87	0.13549	1.642E-03	1.838E-06	1.644E-03
581806.17	4198363.52	6919.84157	0.14401	1.635E-03	1.954E-06	1.637E-03
581405.32	4199060.39	6920.69827	0.09836	1.636E-03	1.334E-06	1.637E-03
581841.21	4198338.06	6902.47326	0.13751	1.631E-03	1.865E-06	1.633E-03
581711.52	4198421.94	6881.24032	0.14247	1.626E-03	1.933E-06	1.628E-03
581696.33	4198430.67	6878.09702	0.14102	1.625E-03	1.913E-06	1.627E-03
581467.85	4199379.04	6864.53921	0.0889	1.622E-03	1.206E-06	1.623E-03
581399.98	4199020.94	6852.39546	0.09816	1.619E-03	1.332E-06	1.621E-03
581597.39	4199542.82	6847.42349	0.08687	1.618E-03	1.178E-06	1.619E-03
581916.09	4199663.93	6839.23012	0.09302	1.616E-03	1.262E-06	1.618E-03
581691.84	4199595.4	6831.45335	0.08842	1.614E-03	1.199E-06	1.616E-03
582080.79	4199693.77	6816.17078	0.09434	1.611E-03	1.280E-06	1.612E-03
581397.66	4198973.73	6815.89899	0.09946	1.611E-03	1.349E-06	1.612E-03
581413.99	4199171.76	6813.22231	0.09462	1.610E-03	1.284E-06	1.611E-03
581530.13	4199483.19	6812.45961	0.08654	1.610E-03	1.174E-06	1.611E-03
581442.03	4198693.64	6805.89138	0.10495	1.608E-03	1.424E-06	1.610E-03
582326.15	4199694.2	6801.84447	0.09744	1.607E-03	1.322E-06	1.609E-03
581893.27	4199663.33	6737.82762	0.0917	1.592E-03	1.244E-06	1.594E-03
581400.48	4199088.75	6735.52786	0.09538	1.592E-03	1.294E-06	1.593E-03
581568	4198506.63	6733.47867	0.11715	1.591E-03	1.589E-06	1.593E-03
581781.42	4198370.76	6723.85267	0.14261	1.589E-03	1.935E-06	1.591E-03
581551.58	4199513.05	6715.44508	0.08539	1.587E-03	1.158E-06	1.588E-03
581491.71	4198584.85	6695.5688	0.10625	1.582E-03	1.441E-06	1.584E-03
581485.72	4199431.88	6683.62162	0.08608	1.580E-03	1.168E-06	1.581E-03
582292.71	4199703.99	6679.35762	0.09546	1.579E-03	1.295E-06	1.580E-03
582461.87	4199680.99	6674.63806	0.09824	1.577E-03	1.333E-06	1.579E-03
581426.75	4199281.78	6641.14569	0.08918	1.569E-03	1.210E-06	1.571E-03
581610.99	4198468.81	6619.79525	0.12184	1.564E-03	1.653E-06	1.566E-03
581865.34	4199663.33	6594.61837	0.08986	1.558E-03	1.219E-06	1.560E-03
581465.53	4198617.83	6593.25697	0.10192	1.558E-03	1.383E-06	1.560E-03
581808.98	4198343.66	6585.11647	0.13688	1.556E-03	1.857E-06	1.558E-03
582385.26	4199698.59	6584.85438	0.09597	1.556E-03	1.302E-06	1.557E-03
581391.8	4199066.18	6579.94284	0.09378	1.555E-03	1.272E-06	1.556E-03
582223.31	4199713.23	6573.6241	0.09321	1.554E-03	1.264E-06	1.555E-03
581605.56	4199567.07	6541.65433	0.08409	1.546E-03	1.141E-06	1.547E-03
582352.16	4199706.02	6536.05566	0.09481	1.545E-03	1.286E-06	1.546E-03
582402.82	4199699.26	6527.59239	0.0956	1.543E-03	1.297E-06	1.544E-03
581841.31	4199662.73	6481.38904	0.08834	1.532E-03	1.198E-06	1.533E-03
582103.51	4199713.68	6475.23586	0.09093	1.530E-03	1.233E-06	1.532E-03
581513.69	4198539.92	6467.64297	0.10687	1.528E-03	1.450E-06	1.530E-03
581397.4	4199155.93	6462.36865	0.09105	1.527E-03	1.235E-06	1.528E-03
581545.37	4198507.92	6452.93402	0.11085	1.525E-03	1.504E-06	1.527E-03
581438.18	4198659.51	6452.39692	0.09833	1.525E-03	1.334E-06	1.526E-03
581700.78	4199620.42	6437.62316	0.08495	1.521E-03	1.152E-06	1.523E-03
581395.99	4198803.86	6420.26381	0.09741	1.517E-03	1.321E-06	1.519E-03
582069.81	4199713.43	6410.12505	0.09002	1.515E-03	1.221E-06	1.516E-03
581393.08	4198818.11	6408.72133	0.09725	1.515E-03	1.319E-06	1.516E-03
582460.87	4199697.88	6390.4904	0.09482	1.510E-03	1.286E-06	1.512E-03
582290.69	4199720.54	6389.79792	0.09209	1.510E-03	1.249E-06	1.511E-03
581399.23	4198777.96	6383.18119	0.0971	1.509E-03	1.317E-06	1.510E-03
581810.08	4199659.73	6379.05385	0.08674	1.508E-03	1.177E-06	1.509E-03
581669.5	4198418.71	6371.55623	0.12986	1.506E-03	1.762E-06	1.508E-03
581411.44	4199265.19	6371.06343	0.08694	1.506E-03	1.179E-06	1.507E-03
581389.41	4199127.6	6370.51248	0.09	1.506E-03	1.221E-06	1.507E-03
581380.73	4199046	6364.50855	0.09151	1.504E-03	1.241E-06	1.505E-03
581587.39	4198469.46	6361.73962	0.11501	1.503E-03	1.560E-06	1.505E-03
581710.11	4198393.87	6354.09667	0.13235	1.502E-03	1.795E-06	1.503E-03
581442.58	4199378.53	6352.04698	0.08385	1.501E-03	1.137E-06	1.502E-03
582325.81	4199720.88	6336.83241	0.09201	1.498E-03	1.248E-06	1.499E-03
581553.68	4199541.72	6330.54494	0.08165	1.496E-03	1.108E-06	1.497E-03
581782.35	4198344.36	6273.56296	0.13271	1.483E-03	1.800E-06	1.484E-03
581494.91	4199482.17	6272.90584	0.08146	1.482E-03	1.105E-06	1.484E-03
581959.27	4199703.22	6260.78511	0.08769	1.480E-03	1.190E-06	1.481E-03
582017.73	4199713.94	6259.8433	0.08812	1.479E-03	1.195E-06	1.481E-03
581612.71	4199589.27	6257.38752	0.08154	1.479E-03	1.106E-06	1.480E-03
582401.13	4199716.49	6248.97425	0.09221	1.477E-03	1.251E-06	1.478E-03
581460.7	4199432.39	6229.03925	0.08183	1.472E-03	1.110E-06	1.473E-03
581792.67	4199663.33	6221.4275	0.08486	1.470E-03	1.151E-06	1.471E-03
581372.27	4199025.6	6210.75057	0.08995	1.468E-03	1.220E-06	1.469E-03
581463.91	4198581.62	6191.34482	0.09792	1.463E-03	1.328E-06	1.465E-03
581977.14	4199710.62	6190.07493	0.08711	1.463E-03	1.182E-06	1.464E-03
582459.28	4199711.19	6182.23493	0.09226	1.461E-03	1.252E-06	1.462E-03
582218.09	4199736.05	6178.28244	0.0887	1.460E-03	1.203E-06	1.461E-03
581394.51	4198753.81	6174.10796	0.09478	1.459E-03	1.286E-06	1.460E-03
581490.1	4198542.19	6152.31116	0.09886	1.454E-03	1.341E-06	1.455E-03
581397.91	4199246.81	6150.7135	0.08519	1.454E-03	1.156E-06	1.455E-03
582351.82	4199730	6141.21409	0.09012	1.451E-03	1.222E-06	1.453E-03
581761.13	4199658.83	6131.40456	0.08335	1.449E-03	1.131E-06	1.450E-03
582168.88	4199737.97	6128.73858	0.08767	1.448E-03	1.189E-06	1.450E-03
581438.05	4198619.12	6113.2637	0.09432	1.445E-03	1.279E-06	1.446E-03
581935.78	4199706.54	6110.77817	0.08593	1.444E-03	1.166E-06	1.445E-03
581518.87	4198507.6	6106.06696	0.10362	1.443E-03	1.406E-06	1.444E-03
581563.8	4198467.84	6076.85013	0.10859	1.436E-03	1.473E-06	1.438E-03
581413.48	4199334.62	6066.11094	0.08186	1.434E-03	1.110E-06	1.435E-03
581381.75	4198783.14	6049.74038	0.09231	1.430E-03	1.252E-06	1.431E-03
581362.28	4198974.16	6040.18942	0.08872	1.427E-03	1.203E-06	1.429E-03
582205.17	4199745.12	6028.98227	0.08688	1.425E-03	1.179E-06	1.426E-03
581361.63	4198997.38	6017.99305	0.08801	1.422E-03	1.194E-06	1.423E-03
581758.3	4198343.43	6010.97827	0.12694	1.421E-03	1.722E-06	1.422E-03
581623.43	4199611.48	6010.56208	0.07937	1.420E-03	1.077E-06	1.422E-03
581554.96	4199568.01	5986.14219	0.07829	1.415E-03	1.062E-06	1.416E-03

582146.33	4199745.94	5976.05493	0.0858	1.412E-03	1.164E-06	1.413E-03
581368.63	4199109.46	5968.60659	0.08582	1.411E-03	1.164E-06	1.412E-03
582458.49	4199725.69	5965.14626	0.08958	1.410E-03	1.215E-06	1.411E-03
581396.4	4198703.3	5955.31083	0.09254	1.407E-03	1.255E-06	1.409E-03
582292.38	4199747.9	5949.21417	0.08695	1.406E-03	1.179E-06	1.407E-03
581383.82	4199223.38	5939.25868	0.08356	1.404E-03	1.133E-06	1.405E-03
581656.1	4199632.67	5932.65986	0.07922	1.402E-03	1.075E-06	1.403E-03
582400.46	4199737.43	5929.95592	0.08832	1.401E-03	1.198E-06	1.403E-03
581898	4199708.58	5924.55151	0.08361	1.400E-03	1.134E-06	1.401E-03
581717.42	4198363.05	5922.70753	0.1246	1.400E-03	1.690E-06	1.401E-03
581473.47	4199485.48	5923.79129	0.07803	1.400E-03	1.058E-06	1.401E-03
581661.09	4198395.76	5918.07945	0.12147	1.399E-03	1.648E-06	1.400E-03
581398.77	4199308.68	5906.83367	0.08095	1.396E-03	1.098E-06	1.397E-03
582320.41	4199748.91	5900.91538	0.08676	1.395E-03	1.177E-06	1.396E-03
581418.58	4199379.55	5894.69896	0.07928	1.393E-03	1.075E-06	1.394E-03
582107.34	4199747.89	5889.68172	0.08462	1.392E-03	1.148E-06	1.393E-03
581441.05	4199435.45	5873.69915	0.07836	1.388E-03	1.063E-06	1.389E-03
581696.4	4198371.22	5856.67425	0.12255	1.384E-03	1.662E-06	1.386E-03
582065.73	4199745.85	5841.12791	0.0839	1.380E-03	1.138E-06	1.382E-03
581595.47	4198430.02	5839.25281	0.10888	1.380E-03	1.477E-06	1.381E-03
581466.18	4198543.16	5827.97781	0.09026	1.377E-03	1.224E-06	1.379E-03
581397.53	4198676.54	5821.79344	0.08836	1.376E-03	1.199E-06	1.377E-03
582359.93	4199750.94	5810.44044	0.08624	1.373E-03	1.170E-06	1.374E-03
581538.58	4198466.55	5790.20599	0.10024	1.368E-03	1.360E-06	1.370E-03
581356.05	4199087.98	5770.0168	0.08376	1.364E-03	1.136E-06	1.365E-03
582022.07	4199743.81	5765.65188	0.08289	1.363E-03	1.124E-06	1.364E-03
581492.36	4198505.34	5751.40591	0.09169	1.359E-03	1.244E-06	1.360E-03
581435.47	4198581.62	5751.36724	0.08716	1.359E-03	1.182E-06	1.360E-03
581634.41	4199634.97	5750.51031	0.07706	1.359E-03	1.045E-06	1.360E-03
581972.03	4199735.9	5747.31466	0.08242	1.358E-03	1.118E-06	1.359E-03
582399.78	4199751.28	5733.68993	0.08588	1.355E-03	1.165E-06	1.356E-03
581368.41	4199201.03	5703.81811	0.08142	1.348E-03	1.104E-06	1.349E-03
581850.77	4199710.37	5700.86335	0.08068	1.347E-03	1.094E-06	1.348E-03
582449.15	4199746.75	5689.89281	0.08602	1.345E-03	1.167E-06	1.346E-03
581824.22	4199706.54	5650.66915	0.07975	1.335E-03	1.082E-06	1.336E-03
581380.8	4199288.93	5646.03027	0.07873	1.334E-03	1.068E-06	1.335E-03
581707.41	4199672.23	5638.36819	0.07742	1.333E-03	1.050E-06	1.334E-03
581694.3	4198357.21	5632.36976	0.1183	1.331E-03	1.605E-06	1.333E-03
581374.91	4198711.97	5621.64418	0.0874	1.329E-03	1.186E-06	1.330E-03
581471.68	4199516.63	5596.73523	0.07446	1.323E-03	1.010E-06	1.324E-03
581363.6	4198750.04	5588.86076	0.08645	1.321E-03	1.173E-06	1.322E-03
581515.63	4198468.16	5572.22748	0.09272	1.317E-03	1.258E-06	1.318E-03
581343.89	4199076.92	5569.18513	0.08122	1.316E-03	1.102E-06	1.317E-03
581805.33	4199706.79	5569.1046	0.0786	1.316E-03	1.066E-06	1.317E-03
581389.99	4198653.17	5558.50363	0.0847	1.314E-03	1.149E-06	1.315E-03
581385.4	4199334.62	5542.16815	0.07667	1.310E-03	1.040E-06	1.311E-03
582451.73	4199758.07	5533.27391	0.08408	1.308E-03	1.141E-06	1.309E-03
581684.95	4199672.49	5520.02129	0.07579	1.305E-03	1.028E-06	1.306E-03
581653.98	4198371.51	5505.49077	0.11224	1.301E-03	1.523E-06	1.303E-03
581569.76	4199617.53	5496.88248	0.07358	1.299E-03	9.981E-07	1.300E-03
581335.65	4199040.46	5489.01447	0.08039	1.297E-03	1.090E-06	1.298E-03
581416.54	4199436.47	5484.23723	0.0745	1.296E-03	1.011E-06	1.297E-03
581439.35	4198543.16	5470.10988	0.0828	1.293E-03	1.123E-06	1.294E-03
581465.53	4198508.25	5463.55148	0.08494	1.291E-03	1.152E-06	1.292E-03
581900.04	4199738.45	5462.92689	0.07879	1.291E-03	1.069E-06	1.292E-03
581393.76	4198626.03	5453.14118	0.08399	1.289E-03	1.139E-06	1.290E-03
581351.27	4199185.62	5432.4	0.07832	1.284E-03	1.062E-06	1.285E-03
581392.04	4199381.85	5427.73566	0.07467	1.283E-03	1.013E-06	1.284E-03
581771.63	4199707.05	5426.81113	0.07655	1.283E-03	1.038E-06	1.284E-03
582102.74	4199778.27	5421.94256	0.07939	1.281E-03	1.077E-06	1.282E-03
582415.73	4199773.1	5415.03434	0.0821	1.280E-03	1.114E-06	1.281E-03
581973.82	4199758.36	5409.23449	0.07878	1.278E-03	1.069E-06	1.279E-03
581595.8	4198398.02	5400.83147	0.10269	1.276E-03	1.393E-06	1.278E-03
581397.9	4198606.43	5388.30045	0.0837	1.273E-03	1.135E-06	1.275E-03
581585.08	4199636.67	5378.07179	0.07261	1.271E-03	9.850E-07	1.272E-03
582019.01	4199769.08	5376.47283	0.07862	1.271E-03	1.066E-06	1.272E-03
581327.62	4199020.28	5376.04546	0.07934	1.271E-03	1.076E-06	1.272E-03
581689.4	4198341.1	5371.42358	0.11207	1.269E-03	1.520E-06	1.271E-03
582068.53	4199777.76	5365.98249	0.07866	1.268E-03	1.067E-06	1.269E-03
581325.67	4198998.15	5363.55898	0.0794	1.268E-03	1.077E-06	1.269E-03
581471.42	4199542.41	5353.87811	0.07179	1.265E-03	9.738E-07	1.266E-03
581648.96	4199671.21	5344.70119	0.07335	1.263E-03	9.950E-07	1.264E-03
582493.87	4199765.59	5344.25256	0.08215	1.263E-03	1.114E-06	1.264E-03
582222.94	4199792.99	5332.89467	0.07895	1.260E-03	1.071E-06	1.261E-03
581341.94	4199165.45	5324.93397	0.07713	1.258E-03	1.046E-06	1.259E-03
581490.74	4198468.16	5319.05894	0.08613	1.257E-03	1.168E-06	1.258E-03
582188.01	4199793.32	5312.86671	0.0785	1.256E-03	1.065E-06	1.257E-03
582169.57	4199792.67	5307.34732	0.07834	1.254E-03	1.063E-06	1.255E-03
582203.53	4199794.93	5300.24185	0.07844	1.253E-03	1.064E-06	1.254E-03
581343.63	4198756.45	5284.48699	0.08208	1.249E-03	1.113E-06	1.250E-03
582519.89	4199765.78	5283.99184	0.08161	1.249E-03	1.107E-06	1.250E-03
582326.38	4199793.99	5279.34975	0.07927	1.248E-03	1.075E-06	1.249E-03
582343.42	4199794.27	5257.71365	0.0792	1.243E-03	1.074E-06	1.244E-03
582360.47	4199793.72	5243.97685	0.07923	1.239E-03	1.075E-06	1.240E-03
581855.88	4199742.79	5242.73798	0.07595	1.239E-03	1.030E-06	1.240E-03
581424.94	4199488.49	5236.18858	0.07123	1.237E-03	9.662E-07	1.238E-03
582491.29	4199775.12	5234.37447	0.08071	1.237E-03	1.095E-06	1.238E-03
582376.96	4199793.72	5222.33351	0.07916	1.234E-03	1.074E-06	1.235E-03
582416.55	4199789.32	5214.27349	0.07956	1.232E-03	1.079E-06	1.233E-03
581348.9	4198711.59	5205.18869	0.08136	1.230E-03	1.104E-06	1.231E-03
581348.23	4199249.63	5200.36166	0.07352	1.229E-03	9.973E-07	1.230E-03
581900.3	4199757.08	5198.89228	0.07596	1.229E-03	1.030E-06	1.230E-03
581594.78	4199657.1	5198.36744	0.07096	1.229E-03	9.626E-07	1.229E-03
581440.96	4198506.63	5167.21836	0.07989	1.221E-03	1.084E-06	1.222E-03
582471.42	4199784.85	5161.44082	0.07955	1.220E-03	1.079E-06	1.221E-03
581328.49	4199140.93	5161.42003	0.07548	1.220E-03	1.024E-06	1.221E-03
581311.78	4198972.76	5155.01087	0.07672	1.218E-03	1.041E-06	1.219E-03
581630.39	4198356.97	5135.59136	0.09931	1.214E-03	1.347E-06	1.215E-03
582516.72	4199779.69	5126.4908	0.07955	1.212E-03	1.079E-06	1.213E-03
582102.74	4199800.23	5122.6434	0.07598	1.211E-03	1.031E-06	1.212E-03
581350.43	4199289.44	5117.56375	0.07168	1.209E-03	9.723E-07	1.210E-03
582445.8	4199793.2	5115.13182	0.07865	1.209E-03	1.067E-06	1.210E-03
581351.17	4198679.18	5104.36384	0.07823	1.206E-03	1.061E-06	1.207E-03
581973.57	4199780.57	5098.11821	0.07535	1.205E-03	1.022E-06	1.206E-03
581712.44	4199713.76	5092.51054	0.07203	1.204E-03	9.771E-07	1.204E-03
581465.53	4198470.43	5091.3215	0.08103	1.203E-03	1.099E-06	1.204E-03
582393.46	4199804.44	5071.87222	0.07745	1.199E-03	1.051E-06	1.200E-03
581469.64	4199572.02	5067.59937	0.06868	1.198E-03	9.316E-07	1.199E-03
581354.18	4198659.2	5056.22188	0.07734	1.195E-03	1.049E-06	1.196E-03
581378.68	4198595.5	5055.87213	0.07558	1.195E-03	1.025E-06	1.196E-03
582467.65	4199794.79	5055.10951	0.07813	1.195E-03	1.060E-06	1.196E-03
581362.47	4198634.32	5051.71514	0.07675	1.194E-03	1.041E-06	1.195E-03
581357.06	4199341	5051.41254	0.07149	1.194E-03	9.698E-07	1.195E-03
582068.02	4199801.5	5044.97608	0.07502	1.192E-03	1.018E-06	1.193E-03
581368.04	4199386.44	5038.02015	0.07048	1.191E-03	9.561E-07	1.192E-03
581384.38	4199436.47	5025.15946	0.06978	1.188E-03	9.466E-07	1.189E-03
581596.77	4198366.66	5019.03013	0.09713	1.186E-03	1.318E-06	1.187E-03
581685.97	4199710.73	5019.65	0.07079	1.186E-03	9.603E-07	1.187E-03
582020.79	4199796.4	5010.6519	0.07453	1.184E-03	1.011E-06	1.185E-03
581332.35	4199227.68	5003.51849	0.07212	1.182E-03	9.783E-07	1.183E-03
581387.35	4198568.74	5001.89834	0.07447	1.182E-03	1.010E-06	1.183E-03
581301.8	4198991.21	4998.47621	0.07431	1.181E-03	1.008E-06	1.182E-03
581648.49	4198334.99	4994.36914	0.0983	1.180E-03	1.333E-06	1.182E-03
582223.91	4199819.84	4993.48552	0.07491	1.180E-03	1.016E-06	1.181E-03
581315.04	4199124.87	4986.71853	0.07351	1.179E-03	9.972E-07	1.180E-03
582509.56	4199794.19	4978.12622	0.07755	1.176E-03	1.052E-06	1.178E-03
582286.79	4199821.76	4970.18537	0.07506	1.175E-03	1.018E-06	1.176E-03
581859.71	4199765	4961.12499	0.07296	1.172E-03	9.897E-07	1.173E-03
582303.83	4199822.04	4959.46068	0.07507	1.172E-03	1.018E-06	1.173E-03

582417.38	4199811.59	4956.81601	0.07625	1.171E-03	1.034E-06	1.172E-03
582320.88	4199821.49	4955.20987	0.07517	1.171E-03	1.020E-06	1.172E-03
581421.55	4199522.05	4953.3224	0.06795	1.171E-03	9.217E-07	1.172E-03
582270.84	4199823.96	4948.60241	0.07467	1.169E-03	1.013E-06	1.171E-03
581361.72	4198611.71	4924.38942	0.07286	1.164E-03	9.883E-07	1.165E-03
581600.65	4199684.41	4917.60384	0.06823	1.162E-03	9.255E-07	1.163E-03
581494.95	4198425.5	4911.63849	0.08129	1.161E-03	1.103E-06	1.162E-03
581779.8	4199747.89	4908.93353	0.07131	1.160E-03	9.673E-07	1.161E-03
582457.12	4199812.07	4885.03318	0.07578	1.154E-03	1.028E-06	1.156E-03
581473.78	4199598.13	4877.35153	0.06662	1.153E-03	9.037E-07	1.154E-03
582501.02	4199805.31	4874.94615	0.07611	1.152E-03	1.032E-06	1.153E-03
581316.11	4198751.17	4866.37183	0.07586	1.150E-03	1.029E-06	1.151E-03
581901.57	4199783.63	4857.74219	0.07222	1.148E-03	9.797E-07	1.149E-03
582479.97	4199811.08	4853.93781	0.07562	1.147E-03	1.026E-06	1.148E-03
581399.2	4198525.31	4850.2226	0.0737	1.146E-03	9.997E-07	1.147E-03
582105.81	4199822.69	4846.49419	0.07279	1.145E-03	9.874E-07	1.146E-03
581488.08	4199615.49	4846.29604	0.0663	1.145E-03	8.994E-07	1.146E-03
581302.02	4199102.09	4845.13916	0.07161	1.145E-03	9.714E-07	1.146E-03
581441.61	4198468.49	4842.64816	0.07658	1.144E-03	1.039E-06	1.145E-03
581291.17	4199002.06	4838.29966	0.07211	1.143E-03	9.782E-07	1.144E-03
581425.69	4199546.18	4827.46122	0.06638	1.141E-03	9.004E-07	1.142E-03
581661.24	4199718.1	4825.04659	0.06835	1.140E-03	9.272E-07	1.141E-03
581348.64	4199370.36	4822.69696	0.06853	1.140E-03	9.296E-07	1.141E-03
581388.74	4199482.83	4822.44197	0.06711	1.140E-03	9.103E-07	1.141E-03
581315.44	4199205.88	4801.68746	0.07042	1.135E-03	9.553E-07	1.136E-03
581977.14	4199805.08	4797.54565	0.07198	1.134E-03	9.764E-07	1.135E-03
581564.44	4198366.34	4796.58548	0.08881	1.134E-03	1.205E-06	1.135E-03
581365.49	4199433.41	4789.85914	0.06738	1.132E-03	9.140E-07	1.133E-03
581294.42	4199077.13	4786.71704	0.07084	1.131E-03	9.609E-07	1.132E-03
582174.1	4199835.36	4779.78043	0.07214	1.130E-03	9.786E-07	1.131E-03
581594.18	4198347.27	4778.55933	0.08836	1.129E-03	1.199E-06	1.131E-03
581728.5	4199744.79	4770.24734	0.06899	1.127E-03	9.359E-07	1.128E-03
581329.24	4199296.08	4763.12866	0.06578	1.126E-03	8.923E-07	1.127E-03
582351.94	4199838.53	4743.66072	0.07279	1.121E-03	9.874E-07	1.122E-03
582368.99	4199838.81	4724.61444	0.07271	1.117E-03	9.863E-07	1.118E-03
582021.56	4199820.14	4721.3607	0.07121	1.116E-03	9.660E-07	1.117E-03
582273.59	4199844.85	4713.89837	0.07178	1.114E-03	9.737E-07	1.115E-03
582223.91	4199844.09	4713.78079	0.07152	1.114E-03	9.702E-07	1.115E-03
582337.1	4199842.66	4711.89935	0.07225	1.114E-03	9.801E-07	1.115E-03
582386.03	4199838.26	4711.77236	0.07273	1.114E-03	9.866E-07	1.115E-03
581358.33	4198578.92	4711.5846	0.06995	1.113E-03	9.489E-07	1.114E-03
581307.82	4198730.82	4696.57262	0.07363	1.110E-03	9.988E-07	1.111E-03
581778.83	4199765.39	4696.70459	0.06903	1.110E-03	9.364E-07	1.111E-03
581468.76	4198424.2	4687.50483	0.07681	1.108E-03	1.042E-06	1.109E-03
581312.05	4198705.8	4673.76762	0.07261	1.105E-03	9.850E-07	1.106E-03
581427.2	4199570.31	4670.1796	0.06453	1.104E-03	8.754E-07	1.105E-03
582403.08	4199840.46	4668.71785	0.07234	1.103E-03	9.813E-07	1.104E-03
581855.62	4199788.74	4660.69547	0.06961	1.101E-03	9.443E-07	1.102E-03
582068.79	4199834.69	4645.74943	0.07039	1.098E-03	9.548E-07	1.099E-03
581279.67	4199049.79	4631.50654	0.06884	1.095E-03	9.338E-07	1.095E-03
581633.9	4199725.91	4625.1945	0.0658	1.093E-03	8.926E-07	1.094E-03
581939.61	4199813.25	4606.81138	0.06964	1.089E-03	9.447E-07	1.090E-03
581568	4198344.36	4586.53901	0.08315	1.084E-03	1.128E-06	1.085E-03
581444.52	4198434.55	4581.66656	0.07173	1.083E-03	9.730E-07	1.084E-03
581310.96	4198681.84	4579.20199	0.07037	1.082E-03	9.546E-07	1.083E-03
581307.01	4199250.5	4564.29278	0.06401	1.079E-03	8.683E-07	1.080E-03
581283.37	4198799.47	4557.0931	0.07079	1.077E-03	9.603E-07	1.078E-03
582172.16	4199855.41	4555.67603	0.06943	1.077E-03	9.418E-07	1.078E-03
581334.2	4198602.29	4544.72039	0.06718	1.074E-03	9.113E-07	1.075E-03
582224.88	4199859.94	4543.90519	0.06944	1.074E-03	9.420E-07	1.075E-03
581353.8	4198556.68	4543.72884	0.06801	1.074E-03	9.226E-07	1.075E-03
581270.77	4199028.96	4540.90128	0.06799	1.073E-03	9.223E-07	1.074E-03
581373.25	4198518.58	4531.70028	0.06677	1.071E-03	9.057E-07	1.072E-03
581900.55	4199811.21	4531.49161	0.06854	1.071E-03	9.297E-07	1.072E-03
582101.72	4199850.01	4529.23832	0.06903	1.070E-03	9.364E-07	1.071E-03
581430.97	4199595.57	4522.90205	0.06283	1.069E-03	8.523E-07	1.070E-03
581488.78	4199654.73	4515.34195	0.06276	1.067E-03	8.513E-07	1.068E-03
582201.59	4199861.56	4513.92819	0.06899	1.067E-03	9.359E-07	1.068E-03
581731.75	4199768.66	4513.83837	0.06631	1.067E-03	8.995E-07	1.068E-03
581608.08	4199725.91	4513.8336	0.06421	1.067E-03	8.710E-07	1.068E-03
582033.81	4199841.33	4507.15974	0.06873	1.065E-03	9.323E-07	1.066E-03
582290.08	4199864.65	4505.79904	0.06927	1.065E-03	9.397E-07	1.066E-03
581264.48	4198977.1	4500.07236	0.06779	1.063E-03	9.196E-07	1.064E-03
581310.23	4198661.51	4499.98682	0.06844	1.063E-03	9.284E-07	1.064E-03
582307.13	4199864.92	4499.41171	0.0693	1.063E-03	9.401E-07	1.064E-03
582324.18	4199864.37	4498.43115	0.06941	1.063E-03	9.415E-07	1.064E-03
581265.56	4199005.75	4496.96261	0.0676	1.063E-03	9.170E-07	1.064E-03
581285.97	4199162.15	4495.78457	0.06684	1.062E-03	9.067E-07	1.063E-03
581549.34	4199700.24	4482.88559	0.063	1.059E-03	8.546E-07	1.060E-03
581394.39	4198479.17	4482.60756	0.06692	1.059E-03	9.078E-07	1.060E-03
581497.21	4198378.95	4479.62095	0.07362	1.059E-03	9.987E-07	1.060E-03
582273.59	4199868.22	4470.923	0.06874	1.057E-03	9.325E-07	1.058E-03
581285.18	4198750.46	4467.43207	0.06954	1.056E-03	9.433E-07	1.057E-03
581501.86	4199671.39	4461.34275	0.06228	1.054E-03	8.448E-07	1.055E-03
581444.2	4198419.68	4456.8504	0.07019	1.053E-03	9.521E-07	1.054E-03
581306.01	4199290.72	4456.20923	0.06254	1.053E-03	8.484E-07	1.054E-03
581356.69	4199484.34	4447.47262	0.06311	1.051E-03	8.561E-07	1.052E-03
581279.01	4199143.83	4446.40345	0.06623	1.051E-03	8.984E-07	1.052E-03
581333.83	4198577.79	4431.04895	0.06595	1.047E-03	8.946E-07	1.048E-03
582172.81	4199870.29	4401.20467	0.06755	1.040E-03	9.163E-07	1.041E-03
581437	4199619.7	4401.46011	0.06143	1.040E-03	8.333E-07	1.041E-03
582069.55	4199858.69	4386.87426	0.06732	1.037E-03	9.132E-07	1.038E-03
581267.54	4198810.09	4385.85718	0.06828	1.037E-03	9.262E-07	1.037E-03
581333.07	4199438	4376.62751	0.06281	1.034E-03	8.520E-07	1.035E-03
581516.16	4199691.81	4375.06109	0.06149	1.034E-03	8.341E-07	1.035E-03
581781.08	4199795.38	4374.66717	0.06553	1.034E-03	8.889E-07	1.035E-03
581306.97	4198637.19	4374.23361	0.06478	1.034E-03	8.787E-07	1.035E-03
581855.37	4199814.78	4372.84949	0.06636	1.033E-03	9.002E-07	1.034E-03
581302.69	4199325.43	4332.99448	0.06088	1.024E-03	8.258E-07	1.025E-03
582028.96	4199858.18	4320.43814	0.0665	1.021E-03	9.021E-07	1.022E-03
581312.65	4199385.67	4307.77524	0.06279	1.018E-03	8.517E-07	1.019E-03
581304.73	4199350.19	4306.91252	0.06246	1.018E-03	8.473E-07	1.019E-03
581395.81	4198449.24	4292.45335	0.06501	1.014E-03	8.819E-07	1.015E-03
582199.97	4199883.55	4291.70283	0.06625	1.014E-03	8.987E-07	1.015E-03
581309.15	4198607.78	4290.46697	0.06359	1.014E-03	8.626E-07	1.015E-03
581279.45	4199214.05	4290.39945	0.06116	1.014E-03	8.296E-07	1.015E-03
581368.44	4198485.26	4286.09708	0.0636	1.013E-03	8.627E-07	1.014E-03
581307.54	4199372.4	4283.3684	0.06273	1.012E-03	8.509E-07	1.013E-03
582103.51	4199874.01	4283.08396	0.06607	1.012E-03	8.962E-07	1.013E-03
581440.77	4199641.19	4277.68219	0.06004	1.011E-03	8.144E-07	1.012E-03
581261.95	4198784.59	4274.02918	0.06673	1.010E-03	9.052E-07	1.011E-03
581347.94	4198516.98	4274.17881	0.06266	1.010E-03	8.500E-07	1.011E-03
581279.01	4198703.99	4272.12094	0.0657	1.010E-03	8.912E-07	1.011E-03
581981.73	4199853.84	4270.36103	0.06585	1.009E-03	8.933E-07	1.010E-03
582223.58	4199887.75	4265.98997	0.06598	1.008E-03	8.950E-07	1.009E-03
581497.21	4198353.41	4252.35546	0.07047	1.005E-03	9.559E-07	1.006E-03
581667.31	4199775.82	4241.11977	0.06231	1.002E-03	8.452E-07	1.003E-03
581350.66	4199516.77	4233.43858	0.06049	1.000E-03	8.205E-07	1.001E-03
581252.6	4198819.98	4232.10699	0.06604	1.000E-03	8.958E-07	1.001E-03
581525.09	4199715.04	4231.9426	0.06005	1.000E-03	8.146E-07	1.001E-03
581961.57	4199853.58	4229.92711	0.06532	9.997E-04	8.861E-07	1.001E-03
581279.89	4199251.59	4213.27269	0.06004	9.957E-04	8.144E-07	9.965E-04
581261.95	4198755.18	4211.69682	0.06601	9.953E-04	8.954E-07	9.962E-04
581733.7	4199798.82	4211.66551	0.06305	9.953E-04	8.553E-07	9.962E-04
581787.29	4199814.22	4201.22425	0.06367	9.929E-04	8.637E-07	9.937E-04
582011.86	4199868.9	4181.49384	0.06482	9.882E-04	8.793E-07	9.891E-04
581442.58	4198386.06	4179.83305	0.06661	9.878E-04	9.036E-07	9.887E-04
581250.02	4198799.98	4170.56026	0.06521	9.856E-04	8.846E-07	9.865E-04
582069.55	4199880.9	4165.52145	0.06464	9.844E-04	8.768E-07	9.853E-04

581930.42	4199853.33	4163.55788	0.06442	9.840E-04	8.739E-07	9.848E-04
581312.65	4199433.41	4163.50252	0.0606	9.840E-04	8.220E-07	9.848E-04
581240.57	4199054.05	4154.00126	0.06253	9.817E-04	8.482E-07	9.826E-04
581451.71	4199669.85	4152.29916	0.05865	9.813E-04	7.956E-07	9.821E-04
581694.22	4199796	4129.73526	0.06154	9.760E-04	8.348E-07	9.768E-04
581352.17	4199542.78	4125.80635	0.05906	9.750E-04	8.012E-07	9.758E-04
581497.21	4198338.22	4123.95375	0.06886	9.746E-04	9.341E-07	9.755E-04
581234.89	4199033.36	4116.18212	0.06224	9.728E-04	8.443E-07	9.736E-04
581844.64	4199839.54	4098.73331	0.06311	9.686E-04	8.561E-07	9.695E-04
582219.05	4199906.51	4090.45501	0.06376	9.667E-04	8.649E-07	9.676E-04
581900.3	4199855.12	4078.26206	0.06327	9.638E-04	8.583E-07	9.647E-04
581228.69	4199009.24	4071.57137	0.06183	9.622E-04	8.387E-07	9.631E-04
581251.74	4199170.85	4065.06134	0.06147	9.607E-04	8.338E-07	9.615E-04
581279.01	4198633.19	4064.85462	0.06031	9.606E-04	8.181E-07	9.615E-04
581365.65	4198450.13	4056.35849	0.06104	9.586E-04	8.280E-07	9.595E-04
581242.71	4198775.87	4049.53089	0.06342	9.570E-04	8.603E-07	9.579E-04
581257.1	4199207.97	4048.6002	0.05983	9.568E-04	8.116E-07	9.576E-04
581554.96	4199754.1	4048.31326	0.05846	9.567E-04	7.930E-07	9.575E-04
581323.27	4198516.98	4047.73021	0.05935	9.566E-04	8.051E-07	9.574E-04
582154.7	4199905.54	4046.7951	0.06316	9.564E-04	8.568E-07	9.572E-04
581649.52	4199791.44	4045.179	0.0599	9.560E-04	8.125E-07	9.568E-04
581461.89	4199694.35	4044.34795	0.05749	9.558E-04	7.799E-07	9.566E-04
582181.54	4199909.42	4037.32622	0.06305	9.541E-04	8.553E-07	9.550E-04
581233.3	4198818.9	4025.60216	0.06298	9.514E-04	8.543E-07	9.522E-04
581288.4	4199388.99	4023.71518	0.05962	9.509E-04	8.087E-07	9.517E-04
582276.89	4199916.89	4022.11131	0.06303	9.505E-04	8.550E-07	9.514E-04
581466.5	4198345.33	4010.8125	0.06532	9.479E-04	8.861E-07	9.488E-04
581338.33	4198481.42	4006.10562	0.0594	9.468E-04	8.058E-07	9.476E-04
581220.13	4198981.79	3999.37614	0.06092	9.452E-04	8.264E-07	9.460E-04
581349.53	4199567.29	3986.37221	0.05733	9.421E-04	7.777E-07	9.429E-04
582361.84	4199921.01	3976.09011	0.06283	9.397E-04	8.523E-07	9.405E-04
581280.46	4198600.16	3975.17967	0.05817	9.395E-04	7.891E-07	9.402E-04
581234.42	4199127.97	3963.64534	0.06008	9.367E-04	8.150E-07	9.375E-04
581475.84	4199719.24	3948.0352	0.05652	9.330E-04	7.667E-07	9.338E-04
582101.35	4199910.17	3943.16234	0.06189	9.319E-04	8.395E-07	9.327E-04
581307.37	4199484.08	3942.88503	0.05761	9.318E-04	7.815E-07	9.326E-04
581225.08	4199087.6	3938.86375	0.05969	9.309E-04	8.097E-07	9.317E-04
581788.48	4199843.37	3931.73009	0.06061	9.292E-04	8.222E-07	9.300E-04
581253.63	4199251.37	3915.89783	0.0566	9.254E-04	7.678E-07	9.262E-04
582067.51	4199907.96	3915.31402	0.06157	9.253E-04	8.352E-07	9.261E-04
581572.82	4199779.11	3912.33307	0.05725	9.246E-04	7.766E-07	9.254E-04
581261.34	4199297.86	3904.70532	0.05402	9.228E-04	7.328E-07	9.235E-04
582283.49	4199931.46	3902.12083	0.06149	9.222E-04	8.341E-07	9.230E-04
581672.3	4199816.83	3887.39008	0.05852	9.187E-04	7.938E-07	9.195E-04
582325.28	4199933.66	3885.52875	0.06143	9.183E-04	8.333E-07	9.191E-04
581349.53	4199589.91	3878.34943	0.05598	9.166E-04	7.594E-07	9.173E-04
581871.45	4199870.18	3877.74853	0.06071	9.164E-04	8.235E-07	9.172E-04
582302.18	4199935.58	3871.12439	0.06115	9.149E-04	8.295E-07	9.157E-04
581284.82	4199435.71	3868.66095	0.05729	9.143E-04	7.771E-07	9.151E-04
581402.32	4199664.19	3866.68828	0.0554	9.138E-04	7.515E-07	9.146E-04
581262.62	4199327.98	3863.2795	0.05349	9.130E-04	7.256E-07	9.137E-04
581341.27	4198448.8	3862.2373	0.05781	9.128E-04	7.842E-07	9.135E-04
582383.56	4199934.76	3857.48888	0.06137	9.116E-04	8.325E-07	9.125E-04
581256.5	4198634.28	3851.2867	0.05649	9.102E-04	7.663E-07	9.109E-04
581222.01	4198775.15	3843.48185	0.0602	9.083E-04	8.166E-07	9.091E-04
581213.4	4198824.21	3838.46561	0.06009	9.071E-04	8.151E-07	9.080E-04
582217.44	4199935.94	3837.3052	0.06054	9.069E-04	8.212E-07	9.077E-04
582200.62	4199934.65	3836.43398	0.06052	9.067E-04	8.210E-07	9.075E-04
581382.46	4198393.17	3836.31272	0.05933	9.066E-04	8.048E-07	9.074E-04
582134.97	4199928.18	3830.21418	0.06045	9.052E-04	8.200E-07	9.060E-04
581202.46	4198932.52	3829.31452	0.0588	9.050E-04	7.976E-07	9.058E-04
581740.21	4199842.43	3828.89083	0.05884	9.049E-04	7.982E-07	9.057E-04
581229.18	4199171.26	3826.08048	0.05718	9.042E-04	7.756E-07	9.050E-04
581237.36	4199216.22	3821.91352	0.05707	9.032E-04	7.742E-07	9.040E-04
581306.63	4199519.17	3814.24413	0.05587	9.014E-04	7.579E-07	9.022E-04
581296.36	4198514.09	3805.17456	0.05588	8.993E-04	7.580E-07	9.000E-04
581265.17	4199378.02	3801.94832	0.05476	8.985E-04	7.428E-07	8.993E-04
581487.03	4199748.9	3798.04292	0.05496	8.976E-04	7.455E-07	8.983E-04
581221.65	4198748.64	3790.10908	0.05866	8.957E-04	7.957E-07	8.965E-04
581232.18	4198699.27	3787.24815	0.0589	8.950E-04	7.990E-07	8.958E-04
581258.28	4199348.92	3778.09882	0.05149	8.929E-04	6.985E-07	8.936E-04
581362.49	4198405.15	3776.04022	0.05783	8.924E-04	7.845E-07	8.932E-04
581437.73	4198333.69	3771.7087	0.06109	8.914E-04	8.287E-07	8.922E-04
581288.14	4199482.42	3769.80141	0.05562	8.909E-04	7.545E-07	8.917E-04
581588.14	4199804.13	3767.0348	0.05589	8.903E-04	7.582E-07	8.910E-04
581397.35	4198363.76	3746.36343	0.05901	8.854E-04	8.005E-07	8.862E-04
581254.69	4198601.25	3742.08131	0.05472	8.844E-04	7.423E-07	8.851E-04
581305.79	4199542.41	3724.79418	0.05461	8.803E-04	7.408E-07	8.810E-04
581345.38	4199616.68	3721.93433	0.05405	8.796E-04	7.332E-07	8.803E-04
581220.2	4198718.87	3718.77932	0.05778	8.789E-04	7.838E-07	8.796E-04
581679.24	4199840.69	3709.29441	0.05663	8.766E-04	7.682E-07	8.774E-04
581788.74	4199870.94	3696.45198	0.05787	8.736E-04	7.850E-07	8.744E-04
582067.51	4199936.3	3680.18215	0.05862	8.697E-04	7.952E-07	8.705E-04
581230.41	4199250.94	3676.97666	0.05212	8.690E-04	7.070E-07	8.697E-04
581597.84	4199820.21	3673.72516	0.055	8.682E-04	7.461E-07	8.690E-04
581264.4	4199436.73	3671.65858	0.05419	8.677E-04	7.351E-07	8.685E-04
581219.47	4198697.82	3670.32391	0.05725	8.674E-04	7.766E-07	8.682E-04
581308.43	4199565.41	3662.19498	0.05368	8.655E-04	7.282E-07	8.662E-04
582031.26	4199933.23	3651.96536	0.05829	8.631E-04	7.907E-07	8.639E-04
581233.27	4198636.1	3648.26074	0.05362	8.622E-04	7.274E-07	8.629E-04
581518.46	4199791.04	3637.97712	0.05353	8.598E-04	7.261E-07	8.605E-04
581273.61	4198517.62	3636.07365	0.05346	8.593E-04	7.252E-07	8.600E-04
581250.69	4198570.39	3620.02624	0.05296	8.555E-04	7.184E-07	8.562E-04
581221.65	4198665.14	3616.08359	0.05335	8.546E-04	7.237E-07	8.553E-04
582009.31	4199935.02	3604.14846	0.0577	8.518E-04	7.827E-07	8.525E-04
581344.63	4199641.57	3603.44907	0.05256	8.516E-04	7.130E-07	8.523E-04
581696.6	4199859.79	3598.18889	0.0556	8.504E-04	7.542E-07	8.511E-04
581742.38	4199873.46	3584.38385	0.05603	8.471E-04	7.600E-07	8.479E-04
581395.53	4198336.17	3568.51523	0.0569	8.433E-04	7.719E-07	8.441E-04
581986.84	4199935.02	3568.11029	0.05724	8.432E-04	7.765E-07	8.440E-04
581538.75	4199811.55	3567.1586	0.05299	8.430E-04	7.188E-07	8.437E-04
581304.02	4198442.59	3565.19684	0.05271	8.426E-04	7.150E-07	8.433E-04
581966.42	4199932.98	3549.74198	0.05699	8.389E-04	7.731E-07	8.397E-04
581285.14	4198470.84	3548.7426	0.05216	8.387E-04	7.076E-07	8.394E-04
581607.64	4199842.21	3538.55205	0.05364	8.363E-04	7.276E-07	8.370E-04
582327.7	4199982.05	3528.90079	0.05668	8.340E-04	7.689E-07	8.348E-04
582284.08	4199981.07	3527.84657	0.05657	8.337E-04	7.674E-07	8.345E-04
582373.6	4199981.4	3527.78346	0.05683	8.337E-04	7.709E-07	8.345E-04
581357.41	4198365.58	3527.15504	0.05401	8.336E-04	7.326E-07	8.343E-04
581942.93	4199932.72	3511.64098	0.05648	8.299E-04	7.662E-07	8.307E-04
581298.63	4199590.29	3497.25345	0.05169	8.265E-04	7.012E-07	8.272E-04
581460.44	4199778.95	3496.19168	0.05136	8.263E-04	6.967E-07	8.269E-04
581344.63	4199665.7	3496.11606	0.0512	8.262E-04	6.945E-07	8.269E-04
581334.54	4198384.82	3493.47754	0.05287	8.256E-04	7.172E-07	8.263E-04
581251.19	4198525.63	3489.79866	0.05106	8.247E-04	6.926E-07	8.254E-04
581789.5	4199898.51	3485.3305	0.05535	8.237E-04	7.508E-07	8.244E-04
581918.17	4199931.7	3475.97871	0.05598	8.215E-04	7.594E-07	8.222E-04
581252.92	4199478.08	3474.96081	0.05034	8.212E-04	6.829E-07	8.219E-04
582207.59	4199983.02	3472.96749	0.05581	8.208E-04	7.571E-07	8.215E-04
581253.68	4199488.29	3458.40734	0.05113	8.173E-04	6.936E-07	8.180E-04
582160.39	4199979.77	3457.82037	0.05566	8.172E-04	7.550E-07	8.179E-04
581240.66	4199438.26	3452.34787	0.04881	8.159E-04	6.621E-07	8.166E-04
581315.24	4198399.36	3446.46794	0.05172	8.145E-04	7.016E-07	8.152E-04
581552.96	4199836.16	3444.02813	0.05181	8.139E-04	7.028E-07	8.146E-04
581302.4	4199614.8	3432.77853	0.05083	8.113E-04	6.895E-07	8.120E-04
581281.62	4198446.17	3429.26586	0.05061	8.104E-04	6.865E-07	8.111E-04
581895.96	4199934.25	3418.45483	0.05519	8.079E-04	7.487E-07	8.086E-04
581428.26	4199770.53	3409.03698	0.05016	8.057E-04	6.804E-07	8.063E-04
582111.24	4199980.42	3404.2268	0.05503	8.045E-04	7.465E-07	8.053E-04

581362.13	4198337.26	3402.34722	0.05278	8.041E-04	7.160E-07	8.048E-04
581492.92	4199814.78	3400.7377	0.05059	8.037E-04	6.863E-07	8.044E-04
581618.27	4199865.43	3400.44615	0.05223	8.036E-04	7.085E-07	8.043E-04
581876.3	4199933.74	3387.62943	0.05472	8.006E-04	7.423E-07	8.013E-04
581789.76	4199913.32	3379.14654	0.05406	7.986E-04	7.333E-07	7.993E-04
581253.01	4199519.78	3375.82591	0.05075	7.978E-04	6.884E-07	7.985E-04
581744.77	4199904.7	3361.27242	0.05341	7.944E-04	7.245E-07	7.951E-04
581341.24	4199692.47	3360.75487	0.04952	7.942E-04	6.717E-07	7.949E-04
581851.54	4199932.98	3349.68742	0.05413	7.916E-04	7.343E-07	7.924E-04
581268.49	4198444.57	3337.91786	0.04923	7.888E-04	6.678E-07	7.895E-04
581302.02	4199640.06	3336.85471	0.04956	7.886E-04	6.723E-07	7.893E-04
581402.26	4199763.06	3334.29349	0.04918	7.880E-04	6.671E-07	7.887E-04
581214.63	4199379.8	3322.47374	0.04473	7.852E-04	6.068E-07	7.858E-04
581827.8	4199931.19	3321.05064	0.05363	7.849E-04	7.275E-07	7.856E-04
581562.08	4199859.7	3315.68731	0.05048	7.836E-04	6.848E-07	7.843E-04
581211.48	4198558.77	3290.39818	0.04825	7.776E-04	6.545E-07	7.783E-04
581229.43	4199481.65	3275.1429	0.04589	7.740E-04	6.225E-07	7.746E-04
581790.27	4199930.43	3262.88236	0.05263	7.711E-04	7.139E-07	7.718E-04
581237.09	4198482.7	3260.10639	0.04781	7.705E-04	6.485E-07	7.711E-04
581341.61	4199716.98	3259.06858	0.04823	7.702E-04	6.542E-07	7.709E-04
581994.06	4199980.75	3254.99755	0.05322	7.693E-04	7.219E-07	7.700E-04
581228.92	4199496.72	3242.67253	0.04605	7.663E-04	6.247E-07	7.670E-04
581629.12	4199893.2	3238.90368	0.05051	7.654E-04	6.852E-07	7.661E-04
581373.21	4199756.97	3234.28429	0.04793	7.644E-04	6.502E-07	7.650E-04
581479.09	4199836.08	3234.13574	0.04856	7.643E-04	6.587E-07	7.650E-04
581445.97	4199817.34	3227.46356	0.04819	7.627E-04	6.537E-07	7.634E-04
581223.95	4198500	3223.69362	0.04724	7.619E-04	6.408E-07	7.625E-04
581251.5	4199575.59	3218.35596	0.04845	7.606E-04	6.572E-07	7.612E-04
581244.46	4198453.54	3216.91158	0.04737	7.602E-04	6.426E-07	7.609E-04
581295.99	4199664.19	3213.73438	0.04799	7.595E-04	6.510E-07	7.601E-04
581210.18	4198527.55	3204.5357	0.04692	7.573E-04	6.365E-07	7.580E-04
581249.9	4198434.96	3188.64621	0.04686	7.536E-04	6.357E-07	7.542E-04
581740.86	4199931.61	3176.07835	0.05112	7.506E-04	6.934E-07	7.513E-04
581946.87	4199983.02	3171.43564	0.05212	7.495E-04	7.070E-07	7.502E-04
581205.69	4199430.35	3169.65286	0.04041	7.491E-04	5.482E-07	7.496E-04
581197.27	4199390.78	3162.19837	0.04073	7.473E-04	5.525E-07	7.479E-04
581213.09	4199484.46	3143.75566	0.04061	7.430E-04	5.509E-07	7.435E-04
581721.77	4199932.69	3140.08326	0.05048	7.421E-04	6.848E-07	7.428E-04
581918.55	4199982.05	3134.93121	0.05161	7.409E-04	7.001E-07	7.416E-04
581294.48	4199686.06	3127.8626	0.04686	7.392E-04	6.357E-07	7.398E-04
581583.08	4199898.51	3124.07711	0.04856	7.383E-04	6.587E-07	7.390E-04
581336.7	4199748.12	3106.48012	0.04634	7.342E-04	6.286E-07	7.348E-04
581245.84	4199606.13	3097.6028	0.04694	7.321E-04	6.367E-07	7.327E-04
581633.03	4199917.94	3093.60588	0.04886	7.311E-04	6.628E-07	7.318E-04
581208.24	4199497.99	3084.17696	0.03975	7.289E-04	5.392E-07	7.294E-04
581679.46	4199931.61	3083.33209	0.04931	7.287E-04	6.689E-07	7.293E-04
581390.4	4199807.51	3075.01788	0.04607	7.267E-04	6.249E-07	7.273E-04
581497.63	4199875.63	3069.57883	0.04688	7.254E-04	6.359E-07	7.261E-04
581195.23	4199444.9	3068.94157	0.03905	7.253E-04	5.297E-07	7.258E-04
581468.03	4199866.23	3041.82876	0.04625	7.189E-04	6.274E-07	7.195E-04
581247.35	4199633.27	3029.94779	0.04609	7.161E-04	6.252E-07	7.167E-04
581638.02	4199930.52	3027.74646	0.04814	7.155E-04	6.530E-07	7.162E-04
581291.84	4199715.09	3014.76944	0.04533	7.125E-04	6.149E-07	7.131E-04
581362.53	4199800.3	3000.79484	0.04507	7.092E-04	6.114E-07	7.098E-04
581425.97	4199850.62	2996.91748	0.04537	7.083E-04	6.154E-07	7.089E-04
581588.38	4199926.09	2977.10492	0.0469	7.036E-04	6.362E-07	7.042E-04
581186.29	4199466.08	2973.02117	0.03755	7.026E-04	5.094E-07	7.031E-04
581816.02	4199984.98	2964.34317	0.04903	7.006E-04	6.651E-07	7.012E-04
581181.19	4199450.26	2957.55029	0.03725	6.990E-04	5.053E-07	6.995E-04
581341.88	4199796.36	2937.36729	0.04417	6.942E-04	5.992E-07	6.948E-04
581784.44	4199982.05	2936.61213	0.04848	6.940E-04	6.576E-07	6.947E-04
581242.83	4199661.55	2926.38493	0.04468	6.916E-04	6.061E-07	6.922E-04
581294.86	4199751.29	2905.64505	0.04381	6.867E-04	5.943E-07	6.873E-04
581552.37	4199930.55	2892.45928	0.04546	6.836E-04	6.167E-07	6.842E-04
581758.4	4199984.65	2886.81573	0.04766	6.822E-04	6.465E-07	6.829E-04
581461.11	4199895.55	2880.56743	0.04431	6.808E-04	6.011E-07	6.814E-04
581175.31	4199477.57	2880.77985	0.03613	6.808E-04	4.901E-07	6.813E-04
581520.84	4199929.42	2843.07809	0.04451	6.719E-04	6.038E-07	6.725E-04
581409.94	4199874.8	2840.88496	0.04341	6.714E-04	5.889E-07	6.720E-04
581684.84	4199976.51	2837.03322	0.04635	6.705E-04	6.287E-07	6.711E-04
581318.11	4199801.77	2825.17099	0.04269	6.677E-04	5.791E-07	6.682E-04
581364.5	4199849.47	2808.47536	0.04269	6.637E-04	5.791E-07	6.643E-04
581267.34	4199747.52	2796.40986	0.04246	6.609E-04	5.760E-07	6.614E-04
581495.88	4199929.64	2795.68848	0.04367	6.607E-04	5.924E-07	6.613E-04
581660.43	4199983.35	2771.45099	0.04527	6.550E-04	6.141E-07	6.556E-04
581631.86	4199979.11	2758.05066	0.04479	6.518E-04	6.076E-07	6.524E-04
581376.47	4199871.76	2757.00871	0.04215	6.516E-04	5.718E-07	6.521E-04
581292.7	4199794.89	2750.46021	0.04175	6.500E-04	5.663E-07	6.506E-04
581463.66	4199927.37	2741.03104	0.0427	6.478E-04	5.792E-07	6.484E-04
581343.03	4199849.14	2740.32883	0.04172	6.476E-04	5.659E-07	6.482E-04
581409.66	4199902.74	2722.25313	0.042	6.433E-04	5.697E-07	6.439E-04
581589.02	4199979.11	2704.3174	0.04364	6.391E-04	5.920E-07	6.397E-04
581323.52	4199847.18	2683.28763	0.04094	6.341E-04	5.554E-07	6.347E-04
581375.91	4199891.4	2678.69883	0.04121	6.331E-04	5.590E-07	6.336E-04
581562.36	4199978.2	2673.71597	0.04296	6.319E-04	5.828E-07	6.325E-04
581242.45	4199753.17	2673.02587	0.04072	6.317E-04	5.524E-07	6.323E-04
581263.03	4199793.57	2639.79671	0.03997	6.239E-04	5.422E-07	6.244E-04
581537.85	4199981.37	2626.11365	0.04211	6.206E-04	5.712E-07	6.212E-04
581408.98	4199930.32	2609.96894	0.04065	6.168E-04	5.514E-07	6.174E-04
581301.06	4199848.65	2604.17752	0.03991	6.154E-04	5.414E-07	6.160E-04
581516.98	4199980.01	2601.87135	0.04159	6.149E-04	5.642E-07	6.155E-04
581375.36	4199912.7	2596.80354	0.04022	6.137E-04	5.456E-07	6.142E-04
581338.22	4199891.64	2573.2301	0.03968	6.081E-04	5.383E-07	6.087E-04
581492.7	4199980.24	2564.51116	0.04088	6.061E-04	5.545E-07	6.066E-04
581242.54	4199793.41	2562.19341	0.0383	6.055E-04	5.195E-07	6.060E-04
581473.65	4199978.65	2541.25163	0.04041	6.006E-04	5.482E-07	6.011E-04
581322.93	4199889.69	2536.5316	0.03915	5.995E-04	5.311E-07	6.000E-04
581278.28	4199849.14	2527.687	0.03894	5.974E-04	5.282E-07	5.979E-04
581371.49	4199931.51	2518.78283	0.03925	5.953E-04	5.324E-07	5.958E-04
581337.25	4199911.82	2501.76137	0.0388	5.912E-04	5.263E-07	5.918E-04
581303.72	4199889.36	2482.50988	0.0384	5.867E-04	5.209E-07	5.872E-04
581246.47	4199838	2454.33277	0.03673	5.800E-04	4.982E-07	5.805E-04
581268.77	4199871.27	2432.7778	0.03774	5.749E-04	5.119E-07	5.754E-04
581335.29	4199934.6	2421.80139	0.03781	5.723E-04	5.129E-07	5.729E-04
581401.95	4199980.01	2411.00066	0.03818	5.698E-04	5.179E-07	5.703E-04
581303.4	4199915.73	2400.00887	0.03741	5.672E-04	5.075E-07	5.677E-04
581266.31	4199890.62	2370.96148	0.03695	5.603E-04	5.012E-07	5.608E-04
581303.4	4199932.97	2348.21029	0.03677	5.550E-04	4.988E-07	5.554E-04
581352.04	4199977.97	2319.50229	0.03671	5.482E-04	4.980E-07	5.487E-04
581262.7	4199911.27	2304.34678	0.03609	5.446E-04	4.896E-07	5.451E-04
581323.19	4199978.15	2259.66071	0.03577	5.340E-04	4.852E-07	5.345E-04
581262.54	4199928.16	2258.72379	0.03551	5.338E-04	4.817E-07	5.343E-04
581287.95	4199974.38	2194.82598	0.03478	5.187E-04	4.718E-07	5.192E-04
581262.7	4199971.92	2145.4617	0.03408	5.070E-04	4.623E-07	5.075E-04
CONCUNIT ug/	m^3					
DEPUNIT g/m^	2					

Mitigated

Tier III Annual Average Onsite DPM Exhaust Emission Rate (grams/m2/sec): 1.64011E-07
Tier IV Interim Annual Average Onsite DPM Exhaust Emission Rate (grams/m2/sec): 2.557E-08
Annual Average Offsite DPM Exhaust Emission Rate (grams/sec): 1.357E-05
MIR UTM = (582116.96, 4198962.41)

				Tier III Mitigated			Tier IV Interim Mitigated		
X	Y	Onsite Unit Emissions	Offsite Unit Emissions	Onsite Annual DPM Exhaust w/Actual Emissions	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
582116.96	4198962.41	712059.25	2.57903	1.168E-01	3.498E-05	1.168E-01	1.821E-02	3.498E-05	1.824E-02
582106.21	4198934.93	705882.1743	3.36858	1.158E-01	4.569E-05	1.158E-01	1.805E-02	4.569E-05	1.810E-02
582128.12	4198976.75	672916.0803	2.24198	1.104E-01	3.041E-05	1.104E-01	1.721E-02	3.041E-05	1.724E-02
582134.71	4198990.12	650745.8291	1.9933	1.067E-01	2.704E-05	1.068E-01	1.664E-02	2.704E-05	1.667E-02
581961.42	4199093.2	640005.5652	1.1694	1.050E-01	1.586E-05	1.050E-01	1.637E-02	1.586E-05	1.638E-02
582117.36	4198932.93	634742.0126	3.34173	1.041E-01	4.533E-05	1.041E-01	1.623E-02	4.533E-05	1.628E-02
582072.55	4198865.81	621447.1908	9.89488	1.019E-01	1.342E-04	1.021E-01	1.589E-02	1.342E-04	1.602E-02
582056.81	4198850.27	617349.2675	16.81286	1.013E-01	2.281E-04	1.015E-01	1.579E-02	2.281E-04	1.601E-02
582142.46	4199000.26	609302.1866	1.81844	9.993E-02	2.467E-05	9.996E-02	1.558E-02	2.467E-05	1.560E-02
582125.44	4198926.15	577770.0205	3.50924	9.476E-02	4.760E-05	9.481E-02	1.477E-02	4.760E-05	1.482E-02
582068.76	4198847.88	550765.7474	17.15201	9.033E-02	2.327E-04	9.056E-02	1.408E-02	2.327E-04	1.432E-02
581980.59	4199093.2	532377.6618	1.13985	8.732E-02	1.546E-05	8.733E-02	1.361E-02	1.546E-05	1.363E-02
582155.01	4199019.58	530987.0982	1.5454	8.709E-02	2.096E-05	8.711E-02	1.358E-02	2.096E-05	1.360E-02
581961.42	4199106.81	527786.3288	1.00406	8.656E-02	1.362E-05	8.658E-02	1.350E-02	1.362E-05	1.351E-02
582088.08	4198858.24	521131.5673	11.24567	8.547E-02	1.525E-04	8.562E-02	1.333E-02	1.525E-04	1.348E-02
582143.45	4198921.18	493602.9311	3.56494	8.096E-02	4.836E-05	8.100E-02	1.262E-02	4.836E-05	1.267E-02
581999.76	4199093.2	468487.4847	1.1094	7.684E-02	1.505E-05	7.685E-02	1.198E-02	1.505E-05	1.199E-02
582135.13	4198890.23	457346.4279	5.28423	7.501E-02	7.168E-05	7.508E-02	1.169E-02	7.168E-05	1.177E-02
581980.59	4199106.81	439380.5445	0.98756	7.206E-02	1.340E-05	7.208E-02	1.124E-02	1.340E-05	1.125E-02
582172.73	4198955.64	437434.1984	2.46187	7.174E-02	3.340E-05	7.178E-02	1.119E-02	3.340E-05	1.122E-02
582018.93	4199093.2	425858.5906	1.07905	6.985E-02	1.464E-05	6.986E-02	1.089E-02	1.464E-05	1.090E-02
582166.56	4198925.56	424308.5325	3.28029	6.959E-02	4.450E-05	6.964E-02	1.085E-02	4.450E-05	1.089E-02
582182.1	4198975.76	416716.1061	2.06206	6.835E-02	2.797E-05	6.837E-02	1.066E-02	2.797E-05	1.068E-02
581961.42	4199120.42	416705.8703	0.87561	6.834E-02	1.188E-05	6.836E-02	1.066E-02	1.188E-05	1.067E-02
582136.15	4198871.65	412006.2909	7.12863	6.757E-02	9.670E-05	6.767E-02	1.054E-02	9.670E-05	1.063E-02
582047.05	4198810.5	398585.379	17.37809	6.537E-02	2.357E-04	6.561E-02	1.019E-02	2.357E-04	1.043E-02
581962.18	4198819.02	396918.4231	12.44667	6.510E-02	1.688E-04	6.527E-02	1.015E-02	1.688E-04	1.032E-02
582038.1	4199093.2	398160.1669	1.05135	6.530E-02	1.426E-05	6.532E-02	1.018E-02	1.426E-05	1.020E-02
581914.94	4198831.39	389362.4021	12.70718	6.386E-02	1.724E-04	6.403E-02	9.956E-03	1.724E-04	1.013E-02
582182.49	4199026.35	390001.0678	1.41973	6.396E-02	1.926E-05	6.398E-02	9.972E-03	1.926E-05	9.992E-03
581891.05	4198837.87	381103.3843	10.9214	6.251E-02	1.481E-04	6.265E-02	9.745E-03	1.481E-04	9.893E-03
581999.76	4199106.81	384375.4516	0.9693	6.304E-02	1.315E-05	6.305E-02	9.829E-03	1.315E-05	9.842E-03
582134.88	4198854.84	377373.1546	10.2798	6.189E-02	1.394E-04	6.203E-02	9.650E-03	1.394E-04	9.789E-03
582057.27	4199093.2	377425.6093	1.02603	6.190E-02	1.392E-05	6.192E-02	9.651E-03	1.392E-05	9.665E-03
582076.44	4199093.2	358520.3554	1.00275	5.880E-02	1.360E-05	5.881E-02	9.167E-03	1.360E-05	9.181E-03
581980.59	4199120.42	356697.6644	0.8673	5.850E-02	1.176E-05	5.851E-02	9.121E-03	1.176E-05	9.133E-03
582018.93	4199106.81	347892.8364	0.95072	5.706E-02	1.290E-05	5.707E-02	8.896E-03	1.290E-05	8.909E-03
582205.4	4198966.4	347049.0627	2.16693	5.692E-02	2.939E-05	5.695E-02	8.874E-03	2.939E-05	8.904E-03
582202.81	4198943.09	344289.7674	2.65505	5.647E-02	3.602E-05	5.650E-02	8.804E-03	3.602E-05	8.840E-03
582206.99	4198982.33	342264.687	1.9051	5.614E-02	2.584E-05	5.616E-02	8.752E-03	2.584E-05	8.778E-03
582158.3	4198856.12	333979.6574	9.33056	5.478E-02	1.266E-04	5.490E-02	8.540E-03	1.266E-04	8.667E-03
582095.61	4199093.2	336852.8284	0.98077	5.525E-02	1.330E-05	5.526E-02	8.613E-03	1.330E-05	8.627E-03
582198.23	4199028.54	333902.8799	1.37489	5.476E-02	1.865E-05	5.478E-02	8.538E-03	1.865E-05	8.557E-03
582190.67	4198892.48	327068.5475	4.69001	5.364E-02	6.362E-05	5.371E-02	8.363E-03	6.362E-05	8.427E-03
581865.53	4198840.15	322579.701	5.3417	5.291E-02	7.246E-05	5.298E-02	8.248E-03	7.246E-05	8.321E-03
581961.42	4199134.03	324272.8122	0.77373	5.318E-02	1.050E-05	5.319E-02	8.292E-03	1.050E-05	8.302E-03
582038.1	4199106.81	323667.6774	0.9334	5.308E-02	1.266E-05	5.310E-02	8.276E-03	1.266E-05	8.289E-03
581999.76	4199120.42	316174.6906	0.8565	5.186E-02	1.162E-05	5.187E-02	8.085E-03	1.162E-05	8.096E-03
582212.57	4198924.77	313145.2739	3.1481	5.136E-02	4.270E-05	5.140E-02	8.007E-03	4.270E-05	8.050E-03
582114.78	4199093.2	312072.6835	0.96042	5.118E-02	1.303E-05	5.120E-02	7.980E-03	1.303E-05	7.993E-03
582190.07	4198875.41	307459.6528	6.0572	5.043E-02	8.217E-05	5.051E-02	7.862E-03	8.217E-05	7.944E-03
582177.65	4198856.63	302527.4012	8.85734	4.962E-02	1.202E-04	4.974E-02	7.736E-03	1.202E-04	7.856E-03
582057.27	4199106.81	305364.1166	0.91717	5.008E-02	1.244E-05	5.010E-02	7.808E-03	1.244E-05	7.821E-03
582076.44	4199106.81	289189.7499	0.90176	4.743E-02	1.223E-05	4.744E-02	7.395E-03	1.223E-05	7.407E-03
582018.93	4199120.42	287822.4173	0.84514	4.721E-02	1.146E-05	4.722E-02	7.360E-03	1.146E-05	7.371E-03
581980.59	4199134.03	287204.6388	0.77046	4.710E-02	1.045E-05	4.712E-02	7.344E-03	1.045E-05	7.354E-03
582040.66	4198789.3	282496.8594	7.88546	4.633E-02	1.070E-04	4.644E-02	7.224E-03	1.070E-04	7.331E-03
582193.44	4198857.14	279667.3767	8.54799	4.587E-02	1.160E-04	4.598E-02	7.151E-03	1.160E-04	7.267E-03
582224.32	4199026.15	272073.3369	1.36584	4.462E-02	1.853E-05	4.464E-02	6.957E-03	1.853E-05	6.976E-03
582095.61	4199106.81	271883.94	0.88664	4.459E-02	1.203E-05	4.460E-02	6.952E-03	1.203E-05	6.964E-03
582229.9	4198901.66	269362.1699	4.06551	4.418E-02	5.515E-05	4.423E-02	6.888E-03	5.515E-05	6.943E-03
582038.1	4199120.42	268177.535	0.83445	4.398E-02	1.132E-05	4.400E-02	6.857E-03	1.132E-05	6.869E-03
581841.92	4198842.06	262798.6494	2.77324	4.310E-02	3.762E-05	4.314E-02	6.720E-03	3.762E-05	6.757E-03
582131.18	4198799.38	255964.0245	19.25391	4.198E-02	2.612E-04	4.224E-02	6.545E-03	2.612E-04	6.806E-03
582241.45	4198921.98	262286.2561	3.20022	4.302E-02	4.341E-05	4.306E-02	6.707E-03	4.341E-05	6.750E-03
582227.31	4198884.53	260629.2797	5.14461	4.275E-02	6.979E-05	4.282E-02	6.664E-03	6.979E-05	6.734E-03
581852.15	4199116.71	262287.5198	0.71507	4.302E-02	9.700E-06	4.303E-02	6.707E-03	9.700E-06	6.716E-03
581999.76	4199134.03	259815.8791	0.76449	4.261E-02	1.037E-05	4.262E-02	6.644E-03	1.037E-05	6.654E-03
581961.42	4199147.64	254876.9752	0.69099	4.180E-02	9.373E-06	4.181E-02	6.517E-03	9.373E-06	6.527E-03
582114.78	4199106.81	253219.0777	0.87218	4.153E-02	1.183E-05	4.154E-02	6.475E-03	1.183E-05	6.487E-03
582057.27	4199120.42	252954.6609	0.82427	4.149E-02	1.118E-05	4.150E-02	6.468E-03	1.118E-05	6.479E-03
582250.61	4198981.93	251254.5384	1.85256	4.121E-02	2.513E-05	4.123E-02	6.425E-03	2.513E-05	6.450E-03
582254	4198965	249537.0259	2.12399	4.093E-02	2.881E-05	4.096E-02	6.381E-03	2.881E-05	6.410E-03
582255.59	4198940.9	246092.3511	2.63324	4.036E-02	3.572E-05	4.040E-02	6.293E-03	3.572E-05	6.328E-03
582230.9	4198868.6	243275.1275	6.71864	3.990E-02	9.114E-05	3.999E-02	6.221E-03	9.114E-05	6.312E-03
581951.29	4198798.36	240341.8985	5.53985	3.942E-02	7.515E-05	3.949E-02	6.146E-03	7.515E-05	6.221E-03
582251.21	4198902.86	240606.973	4.00375	3.946E-02	5.431E-05	3.952E-02	6.152E-03	5.431E-05	6.207E-03
582076.44	4199120.42	239440.5182	0.81435	3.927E-02	1.105E-05	3.928E-02	6.123E-03	1.105E-05	6.134E-03
582018.93	4199134.03	239233.1298	0.75769	3.924E-02	1.028E-05	3.925E-02	6.117E-03	1.028E-05	6.128E-03
581840.53	4199116.71	237767.4642	0.67427	3.900E-02	9.147E-06	3.901E-02	6.080E-03	9.147E-06	6.089E-03
582207.19	4199070.57	236312.0193	1.0324	3.876E-02	1.400E-05	3.877E-02	6.043E-03	1.400E-05	6.057E-03
581980.59	4199147.64	231694.9105	0.69105	3.800E-02	9.374E-06	3.801E-02	5.925E-03	9.374E-06	5.934E-03
582245.44	4199029.54	230308.1118	1.31526	3.777E-02	1.784E-05	3.779E-02	5.889E-03	1.784E-05	5.907E-03
582246.43	4198870.99	227455.3336	6.48378	3.731E-02	8.795E-05	3.739E-02	5.816E-03	8.795E-05	5.904E-03
582228.31	4198843.3	224126.0607	12.12017	3.676E-02	1.644E-04	3.692E-02	5.731E-03	1.644E-04	5.895E-03
582162.52	4198792.6	219040.7863	16.5484	3.593E-02	2.245E-04	3.615E-02	5.601E-03	2.245E-04	5.825E-03
582095.61	4199120.42	225525.3417	0.80423	3.699E-02	1.091E-05	3.700E-02	5.767E-03	1.091E-05	5.778E-03
582038.1	4199134.03	224106.8757	0.75122	3.676E-02	1.019E-05	3.677E-02	5.730E-03	1.019E-05	5.741E-03
582030.7	4198772.45	215725.0649	4.96558	3.538E-02	6.736E-05	3.545E-02	5.516E-03	6.736E-05	5.584E-03
582195.44	4199088.69	215470.109	0.92732	3.534E-02	1.258E-05	3.535E-02	5.510E-03	1.258E-05	5.522E-03
581999.76	4199147.64	213836.8406	0.68832	3.507E-02	9.337E-06	3.508E-02	5.468E-03	9.337E-06	5.477E-03
582246.23	4198845.69	209269.8294	11.63954	3.432E-02	1.579E-04	3.448E-02	5.351E-03	1.579E-04	5.509E-03
582085.61	4198769.38	211488.6719	6.00879	3.469E-02	8.151E-05	3.477E-02	5.408E-03	8.151E-05	5.489E-03
581828.91	4199116.71	213162.2553	0.63608	3.496E-02	8.628E-06	3.497E-02	5.451E-03	8.628E-06	5.459E-03
582057.27	4199134.03	211937.0841	0.745	3.476E-02	1.011E-05	3.477E-02	5.419E-03	1.011E-05	5.429E-03
582114.78	4199120.42	211207.3419	0.7942	3.464E-02	1.077E-05	3.465E-02	5.401E-03	1.077E-05	5.411E-03
582282.28	4198923.37	209474.6475	3.16496	3.436E-02	4.293E-05	3.440E-02	5.356E-03	4.293E-05	5.399E-03
582282.88	4198965.6	209390.3595	2.099	3.434E-02	2.847E-05	3.437E-02	5.354E-03	2.847E-05	5.383E-03
582284.48	4198944.09	208769.9777	2.55247	3.424E-02	3.462E-05	3.428E-02	5.338E-03	3.462E-05	5.373E-03
582279.7	4198984.12	208841.0274	1.80252	3.425E-02	2.445E-05	3.428E-02	5.340E-03	2.445E-05	5.365E-03
582183.8	4198789.79	201011.518	15.72029	3.297E-02	2.132E-04	3.318E-02	5.140E-03	2.132E-04	5.353E-03
582264.56	4199028.54	203804.1953	1.31004	3.343E-02	1.777E-05	3.344E-02	5.211E-03	1.777E-05	5.229E-03
582285.07	4198902.66	201945.9798	4.09	3.312E-02	5.548E-05	3.318E-02	5.164E-03	5.548E-05	5.219E-03
582154.56	4198776.7	198947.3474	9.31099	3.263E-02	1.263E-04	3.276E-02	5.087E-03	1.263E-04	5.213E-03
582076.44	4199134.03	201111.8209	0.73881	3.298E-02	1.002E-05	3.299E-02	5.142E-03	1.002E-05	5.153E-03
582018.93	4199147.64	199508.4617	0.68452	3.272E-02	9.286E-06	3.273E-02	5.101E-03	9.286E-06	5.111E-03
582237.27	4199070.77	193884.6843	1.01073	3.180E-02	1.371E-05	3.181E-02	4.958E-03	1.371E-05	4.971E-03
581820.59	4198842.82	193395.3653	1.70626	3.172E-02	2.315E-05	3.174E-02	4.945E-03	2.315E-05	4.968E-03
582282.09	4198866.41	190512.2528	7.50107	3.125E-02	1.018E-04	3.135E-02	4.871E-03	1.018E-04	4.973E-03
582095.61	4199134.03	190111.3696	0.73221	3.118E-02	9.932E-06	3.119E-02	4.861E-03	9.932E-06	4.871E-03
581817.29	4199116.71	188899.4644	0.59848	3.098E-02	8.118E-06	3.099E-02	4.830E-03	8.118E-06	4.838E-03
582038.1	4199147.64	188487.8638	0.68079	3.091E-02	9.235E-06	3.092E-02	4.820E-03	9.235E-06	4.829E-03
582281.49	4198845.09	180109.687	13.1704	2.954E-02	1.787E-04	2.972E-02	4.605E-03	1.787E-04	4.784E-03
582281.69	4199026.55	184808.3268	1.31746	3.031E-02	1.787E-05	3.033E-02	4.726E-03	1.787E-05	4.743E-03
582072.84	4198754.32	178364.912	4.19791	2.925E-02	5.694E-05	2.931E-02	4.561E-03	5.694E-05	4.618E-03
582057.27	4199147.64	179209.4143	0.67716	2.939E-02	9.186E-06	2.940E-02	4.582E-03	9.186E-06	4.592E-03
582114.78	4199134.03	178983.4389	0.72544	2.936E-02	9.841E-06	2.937E-02	4.577E-03	9.841E-06	4.587E-03
582245.07	4198793.53	168997.4134	17.50002	2.772E-02	2.374E-04	2.795E-02	4.321E-03	2.374E-04	4.559E-03

582023.81	4198756.61	170464.2019	3.48082	2.796E-02	4.722E-05	2.801E-02	4.359E-03	4.722E-05	4.406E-03
582321.32	4198901.66	169231.5234	4.34173	2.776E-02	5.890E-05	2.781E-02	4.327E-03	5.890E-05	4.386E-03
582076.44	4199147.64	170715.5147	0.67346	2.800E-02	9.136E-06	2.801E-02	4.365E-03	9.136E-06	4.374E-03
581852.15	4199139.71	170648.2517	0.58714	2.799E-02	7.965E-06	2.800E-02	4.364E-03	7.965E-06	4.371E-03
582324.71	4198924.57	168756.918	3.21175	2.768E-02	4.357E-05	2.772E-02	4.315E-03	4.357E-05	4.359E-03
582324.51	4198944.88	168735.3257	2.5654	2.767E-02	3.480E-05	2.771E-02	4.315E-03	3.480E-05	4.349E-03
582324.91	4198964.4	166305.1459	2.12674	2.728E-02	2.885E-05	2.730E-02	4.252E-03	2.885E-05	4.281E-03
581805.67	4199116.71	165844.905	0.56035	2.720E-02	7.601E-06	2.721E-02	4.241E-03	7.601E-06	4.248E-03
581936.16	4198781.56	163616.1449	3.24024	2.683E-02	4.395E-05	2.688E-02	4.184E-03	4.395E-05	4.228E-03
581897.6	4198797.8	161986.0986	3.23281	2.657E-02	4.385E-05	2.661E-02	4.142E-03	4.385E-05	4.186E-03
582095.61	4199147.64	162076.9392	0.6693	2.658E-02	9.079E-06	2.659E-02	4.144E-03	9.079E-06	4.153E-03
582154.8	4198748.87	159555.391	4.96873	2.617E-02	6.740E-05	2.624E-02	4.080E-03	6.740E-05	4.147E-03
582333.87	4198901.06	159590.409	4.47456	2.617E-02	6.070E-05	2.624E-02	4.081E-03	6.070E-05	4.141E-03
582250.61	4199086.9	160794.3322	0.90812	2.637E-02	1.232E-05	2.638E-02	4.112E-03	1.232E-05	4.124E-03
582329.49	4198986.12	157654.8394	1.76407	2.586E-02	2.393E-05	2.588E-02	4.031E-03	2.393E-05	4.055E-03
582195.72	4198754.95	154929.2745	6.04447	2.541E-02	8.199E-05	2.549E-02	3.962E-03	8.199E-05	4.044E-03
582322.52	4199007.83	156113.9457	1.48962	2.560E-02	2.021E-05	2.562E-02	3.992E-03	2.021E-05	4.012E-03
582285.67	4199062.4	154530.4319	1.03874	2.534E-02	1.409E-05	2.536E-02	3.951E-03	1.409E-05	3.965E-03
582242.73	4198770.15	151307.7997	8.58585	2.482E-02	1.165E-04	2.493E-02	3.869E-03	1.165E-04	3.985E-03
582114.78	4199147.64	153349.2864	0.66484	2.515E-02	9.019E-06	2.516E-02	3.921E-03	9.019E-06	3.930E-03
582344.43	4198888.52	150358.8621	5.66894	2.466E-02	7.690E-05	2.474E-02	3.845E-03	7.690E-05	3.922E-03
582214.56	4199115.38	152287.222	0.77913	2.498E-02	1.057E-05	2.499E-02	3.894E-03	1.057E-05	3.905E-03
581840.53	4199139.71	151378.0324	0.56	2.483E-02	7.596E-06	2.484E-02	3.871E-03	7.596E-06	3.878E-03
582321.92	4199029.74	146718.2495	1.27204	2.406E-02	1.726E-05	2.408E-02	3.752E-03	1.726E-05	3.769E-03
582252.02	4199100.18	145439.3917	0.83784	2.385E-02	1.137E-05	2.386E-02	3.719E-03	1.137E-05	3.730E-03
581794.05	4199116.71	143161.478	0.52398	2.348E-02	7.108E-06	2.349E-02	3.661E-03	7.108E-06	3.668E-03
582058.54	4198735.67	142008.2394	2.879	2.329E-02	3.905E-05	2.333E-02	3.631E-03	3.905E-05	3.670E-03
581871.63	4198803.21	142003.646	2.61727	2.329E-02	3.550E-05	2.333E-02	3.631E-03	3.550E-05	3.667E-03
582166.04	4198733.63	139593.3756	3.91505	2.289E-02	5.311E-05	2.295E-02	3.569E-03	5.311E-05	3.623E-03
582287.07	4199082.32	137700.2586	0.91758	2.258E-02	1.245E-05	2.260E-02	3.521E-03	1.245E-05	3.533E-03
582134.89	4198728.01	136683.0656	3.32656	2.242E-02	4.512E-05	2.246E-02	3.495E-03	4.512E-05	3.540E-03
581828.91	4199139.71	135161.6859	0.53443	2.217E-02	7.250E-06	2.218E-02	3.456E-03	7.250E-06	3.463E-03
582324.71	4199048.46	134804.1165	1.11862	2.211E-02	1.517E-05	2.212E-02	3.447E-03	1.517E-05	3.462E-03
582016.4	4198739.5	133734.332	2.50821	2.193E-02	3.402E-05	2.197E-02	3.420E-03	3.402E-05	3.454E-03
582377.29	4198942.89	131400.8654	2.71683	2.155E-02	3.685E-05	2.159E-02	3.360E-03	3.685E-05	3.397E-03
582380.08	4198923.17	130739.1378	3.49208	2.144E-02	4.737E-05	2.149E-02	3.343E-03	4.737E-05	3.390E-03
582197.96	4198728.27	129013.9319	3.80463	2.116E-02	5.161E-05	2.121E-02	3.299E-03	5.161E-05	3.351E-03
582377.29	4198961.42	129226.0805	2.2242	2.119E-02	3.017E-05	2.122E-02	3.304E-03	3.017E-05	3.335E-03
582239.22	4198737.41	127442.4839	4.55814	2.090E-02	6.183E-05	2.096E-02	3.259E-03	6.183E-05	3.321E-03
582224.32	4199129.93	128784.2317	0.71231	2.112E-02	9.663E-06	2.113E-02	3.293E-03	9.663E-06	3.303E-03
582255.59	4199115.19	127989.0286	0.76595	2.099E-02	1.039E-05	2.100E-02	3.273E-03	1.039E-05	3.283E-03
582091.3	4199172.08	124568.3254	0.57515	2.043E-02	7.802E-06	2.044E-02	3.185E-03	7.802E-06	3.193E-03
582371.72	4199002.45	123906.9612	1.54059	2.032E-02	2.090E-05	2.034E-02	3.168E-03	2.090E-05	3.189E-03
581852.15	4199162.71	123928.2725	0.49564	2.033E-02	6.723E-06	2.033E-02	3.169E-03	6.723E-06	3.176E-03
582322.72	4199074.15	121617.7031	0.94975	1.995E-02	1.288E-05	1.996E-02	3.110E-03	1.288E-05	3.123E-03
581782.43	4199116.71	121795.4168	0.48913	1.998E-02	6.635E-06	1.998E-02	3.114E-03	6.635E-06	3.121E-03
581817.29	4199139.71	121050.718	0.50884	1.985E-02	6.902E-06	1.986E-02	3.095E-03	6.902E-06	3.102E-03
581843.82	4198809.68	120408.8645	1.89111	1.975E-02	2.565E-05	1.977E-02	3.079E-03	2.565E-05	3.105E-03
582368.73	4199020.97	119976.9633	1.33663	1.968E-02	1.813E-05	1.970E-02	3.068E-03	1.813E-05	3.086E-03
582263.08	4198732.96	118693.1	4.26897	1.947E-02	5.791E-05	1.952E-02	3.035E-03	5.791E-05	3.093E-03
582117.7	4199172.08	117565.1024	0.57321	1.928E-02	7.776E-06	1.929E-02	3.006E-03	7.776E-06	3.014E-03
582287.66	4199111	115328.5804	0.7742	1.892E-02	1.050E-05	1.893E-02	2.949E-03	1.050E-05	2.959E-03
582117.27	4198707.84	114534.8312	2.37848	1.878E-02	3.226E-05	1.882E-02	2.929E-03	3.226E-05	2.961E-03
582293.95	4198732.73	111294.5855	4.20712	1.825E-02	5.707E-05	1.831E-02	2.846E-03	5.707E-05	2.903E-03
582048.58	4198714.99	111217.3459	2.04909	1.824E-02	2.780E-05	1.827E-02	2.844E-03	2.780E-05	2.872E-03
582371.72	4199043.28	110602.3504	1.13878	1.814E-02	1.545E-05	1.816E-02	2.828E-03	1.545E-05	2.844E-03
582006.7	4198726.23	110242.1783	1.96646	1.808E-02	2.668E-05	1.811E-02	2.819E-03	2.668E-05	2.846E-03
582323.32	4199092.48	110592.3514	0.84959	1.814E-02	1.152E-05	1.815E-02	2.828E-03	1.152E-05	2.839E-03
582144.1	4199172.08	110550.8612	0.57111	1.813E-02	7.747E-06	1.814E-02	2.827E-03	7.747E-06	2.835E-03
582418.53	4198950.66	109190.8797	2.54329	1.791E-02	3.450E-05	1.794E-02	2.792E-03	3.450E-05	2.827E-03
581840.53	4199162.71	109819.7719	0.47626	1.801E-02	6.460E-06	1.802E-02	2.808E-03	6.460E-06	2.815E-03
582408.17	4198983.33	109258.3567	1.80725	1.792E-02	2.452E-05	1.794E-02	2.794E-03	2.452E-05	2.818E-03
582427.69	4198910.23	107361.5674	4.62474	1.761E-02	6.273E-05	1.767E-02	2.745E-03	6.273E-05	2.808E-03
581925.09	4198758.68	107850.9811	1.9937	1.769E-02	2.704E-05	1.772E-02	2.758E-03	2.704E-05	2.785E-03
581805.67	4199139.71	108291.9996	0.4831	1.776E-02	6.553E-06	1.777E-02	2.769E-03	6.553E-06	2.776E-03
582373.7	4198769.21	104915.6845	6.30847	1.721E-02	8.557E-05	1.729E-02	2.683E-03	8.557E-05	2.768E-03
582325.05	4198733.66	104459.7186	4.14501	1.713E-02	5.623E-05	1.719E-02	2.671E-03	5.623E-05	2.727E-03
582407.17	4199008.22	104503.6652	1.4578	1.714E-02	1.978E-05	1.716E-02	2.672E-03	1.978E-05	2.692E-03
581792.02	4198847.39	104013.0848	1.10951	1.706E-02	1.505E-05	1.707E-02	2.660E-03	1.505E-05	2.675E-03
582372.12	4199060.61	103838.006	1.01389	1.703E-02	1.375E-05	1.704E-02	2.655E-03	1.375E-05	2.669E-03
582164	4198693.79	103281.9147	2.23941	1.694E-02	3.038E-05	1.697E-02	2.641E-03	3.038E-05	2.671E-03
582170.5	4199172.08	103608.1863	0.56871	1.699E-02	7.715E-06	1.700E-02	2.649E-03	7.715E-06	2.657E-03
582434.86	4198946.68	102541.6484	2.68454	1.682E-02	3.642E-05	1.685E-02	2.622E-03	3.642E-05	2.658E-03
582270.93	4199137.1	102966.1334	0.67244	1.689E-02	9.122E-06	1.690E-02	2.633E-03	9.122E-06	2.642E-03
582187.49	4198692.77	101954.9896	2.31554	1.672E-02	3.141E-05	1.675E-02	2.607E-03	3.141E-05	2.638E-03
582237.07	4199152.23	102554.0556	0.62542	1.682E-02	8.484E-06	1.683E-02	2.622E-03	8.484E-06	2.631E-03
582444.02	4198909.43	100750.7194	4.8157	1.652E-02	6.533E-05	1.659E-02	2.576E-03	6.533E-05	2.642E-03
582286.87	4199130.52	101828.5999	0.69333	1.670E-02	9.405E-06	1.671E-02	2.604E-03	9.405E-06	2.613E-03
581770.81	4199116.71	101869.8576	0.45797	1.671E-02	6.212E-06	1.671E-02	2.605E-03	6.212E-06	2.611E-03
582360.83	4198740.21	98622.32268	4.29626	1.618E-02	5.828E-05	1.623E-02	2.522E-03	5.828E-05	2.580E-03
582243.82	4198693.19	97946.67739	2.50562	1.606E-02	3.399E-05	1.610E-02	2.505E-03	3.399E-05	2.539E-03
582408.57	4199030.33	98302.23213	1.22816	1.612E-02	1.666E-05	1.614E-02	2.514E-03	1.666E-05	2.530E-03
581828.91	4199162.71	98617.1648	0.458	1.617E-02	6.213E-06	1.618E-02	2.522E-03	6.213E-06	2.528E-03
582368.73	4199081.32	96857.55929	0.8905	1.589E-02	1.208E-05	1.590E-02	2.477E-03	1.208E-05	2.489E-03
582323.52	4199116.78	96826.13951	0.73776	1.588E-02	1.001E-05	1.589E-02	2.476E-03	1.001E-05	2.486E-03
582000.57	4198716.27	96197.43071	1.6733	1.578E-02	2.270E-05	1.580E-02	2.460E-03	2.270E-05	2.482E-03
581794.05	4199139.71	96339.47602	0.45827	1.580E-02	6.216E-06	1.581E-02	2.463E-03	6.216E-06	2.470E-03
582456.17	4198951.86	93811.56367	2.51486	1.539E-02	3.411E-05	1.542E-02	2.399E-03	3.411E-05	2.433E-03
582273.18	4198689.63	92876.87416	2.44902	1.523E-02	3.322E-05	1.527E-02	2.375E-03	3.322E-05	2.408E-03
581852.15	4199185.71	93325.07684	0.42605	1.531E-02	5.779E-06	1.531E-02	2.386E-03	5.779E-06	2.392E-03
582409.36	4199048.86	92923.5526	1.07592	1.524E-02	1.459E-05	1.526E-02	2.376E-03	1.459E-05	2.391E-03
582469.91	4198913.02	91318.09686	4.58055	1.498E-02	6.214E-05	1.504E-02	2.335E-03	6.214E-05	2.397E-03
582091.3	4199200.93	92633.45535	0.48836	1.519E-02	6.625E-06	1.520E-02	2.369E-03	6.625E-06	2.375E-03
582103.48	4198683.32	91434.32813	1.69066	1.500E-02	2.293E-05	1.502E-02	2.338E-03	2.293E-05	2.361E-03
582414.64	4198754.36	90084.57337	4.62007	1.477E-02	6.267E-05	1.484E-02	2.303E-03	6.267E-05	2.366E-03
582454.98	4198982.7	90440.54137	1.79045	1.483E-02	2.429E-05	1.486E-02	2.313E-03	2.429E-05	2.337E-03
581817.29	4199162.71	89210.20791	0.43961	1.463E-02	5.963E-06	1.464E-02	2.281E-03	5.963E-06	2.287E-03
582117.7	4199200.93	88758.80358	0.48834	1.456E-02	6.624E-06	1.456E-02	2.270E-03	6.624E-06	2.276E-03
582249.62	4199166.77	88223.88475	0.57596	1.447E-02	7.813E-06	1.448E-02	2.256E-03	7.813E-06	2.264E-03
582322.92	4199133.91	87891.03959	0.67071	1.442E-02	9.098E-06	1.442E-02	2.247E-03	9.098E-06	2.257E-03
582299.62	4198683.62	87122.12631	2.29821	1.429E-02	3.118E-05	1.432E-02	2.228E-03	3.118E-05	2.259E-03
582369.93	4199103.43	87387.75722	0.77934	1.433E-02	1.057E-05	1.434E-02	2.235E-03	1.057E-05	2.245E-03
582417.92	4198740.33	85935.24551	3.87443	1.409E-02	5.256E-05	1.415E-02	2.197E-03	5.256E-05	2.250E-03
582453.98	4199007.6	86644.4263	1.42825	1.421E-02	1.937E-05	1.423E-02	2.216E-03	1.937E-05	2.235E-03
582335.68	4198692.34	85961.0936	2.5123	1.410E-02	3.408E-05	1.413E-02	2.198E-03	3.408E-05	2.232E-03
582034.02	4198693.79	86199.3294	1.48638	1.414E-02	2.016E-05	1.416E-02	2.204E-03	2.016E-05	2.224E-03
581818.3	4198808.54	85673.11526	1.24997	1.405E-02	1.696E-05	1.407E-02	2.191E-03	1.696E-05	2.208E-03
582406.18	4199075.75	85712.55621	0.90325	1.406E-02	1.225E-05	1.407E-02	2.192E-03	1.225E-05	2.204E-03
582488.24	4198930.94	84637.22645	3.30744	1.388E-02	4.487E-05	1.393E-02	2.164E-03	4.487E-05	2.209E-03
581782.43	4199139.71	85326.89711	0.43375	1.399E-02	5.884E-06	1.400E-02	2.182E-03	5.884E-06	2.188E-03
581759.19	4199116.71	85051.39488	0.42876	1.395E-02	5.816E-06	1.396E-02	2.175E-03	5.816E-06	2.181E-03
582144.1	4199200.93	84632.94228	0.488	1.388E-02	6.620E-06	1.389E-02	2.164E-03	6.620E-06	2.171E-03
581840.53	4199185.71	84126.47726	0.41164	1.380E-02	5.584E-06	1.380E-02	2.151E-03	5.584E-06	2.157E-03
582142.81	4198666.73	83569.81831	1.56908	1.371E-02	2.128E-05	1.373E-02	2.137E-03	2.128E-05	2.158E-03
582367.52	4198697.75	83135.1706	2.6103	1.364E-02	3.541E-05	1.367E-02	2.126E-03	3.541E-05	2.161E-03
582427.51	4198731.68	81952.67644	3.45759	1.344E-02	4.690E-05	1.349E-02	2.096E-03	4.690E-05	2.142E-03
582455.38	4199029.71	81973.0934	1.19586	1.344E-02	1.622E-05	1.346E-02	2.096E-03	1.622E-05	2.112E-03
582492.33	4198956.98	81459.69743	2.29278	1.336E-02	3.110E-05	1.339E-02	2.083E-03	3.110E-05	2.114E-03
582192.09	4198657.79	80433.53138	1.57704	1.319E-02	2.139E-05	1.321E-02	2.057E-03	2.139E-05	2.078E-03
581805.67	4199162.71	80908.30568	0.42122	1.327E-02	5.714E-06	1.328E-02	2.069E-03	5.714E-06	2.075E-03
582489.73	4198976.77	80139.82149	1.84123	1.314E-02	2.498E-05	1.317E-02	2.049E-03	2.498E-05	2.074E-03
582444.11	4198734.72	79449.27774	3.46212	1.303E-02	4.696E-05	1.308E-02	2.032E-03	4.696E-05	2.079E-03
582170.5	4199200.93	80399.27725	0.48731	1.319E-02	6.610E-06	1.319E-02	2.056E-03	6.610E-06	2.062E-03
582369.73	4199122.95	79559.44431	0.69716	1.305E-02	9.457E-06	1.306E-02	2.034E-03	9.457E-06	2.044E-03
581991.38	4198701.2	78916.38807	1.34013	1.294E-02	1.818E-05	1.296E-02	2.018E-03	1.818E-05	2.036E-03
581913.65	4198739.67	78609.43557	1.42412	1.289E-02	1.932E-05	1.291E-02	2.010E-03	1.932E-05	2.029E-03
582397.57	4198696.24	78157.92683	2.50444	1.282E-02	3.397E-05	1.285E-02	1.999E-03	3.397E-05	2.032E-03
582129.43	4199211.68	78886.4537	0.46173	1.294E-02	6.263E-06	1.294E-02	2.017E-03	6.263E-06	2.023E-03
582232.49	4198652.28	77526.47916	1.58205	1.272E-02	2.146E-05	1.274E-02	1.982E-03	2.146E-05	2.004E-03
582285.67	4199170.96	77807.00646	0.55792	1.276E-02	7.568E-06	1.277E-02	1.990E-03	7.568E-06	1.997E-03

582407.37	4199100.05	77576.23723	0.77808	1.272E-02	1.055E-05	1.273E-02	1.984E-03	1.055E-05	1.994E-03
582453.25	4199054.4	77349.01366	1.0035	1.269E-02	1.361E-05	1.270E-02	1.978E-03	1.361E-05	1.991E-03
582491.68	4198999.16	76668.09504	1.48017	1.257E-02	2.008E-05	1.259E-02	1.960E-03	2.008E-05	1.981E-03
582145.76	4199211.68	76768.72245	0.46169	1.259E-02	6.263E-06	1.260E-02	1.963E-03	6.263E-06	1.969E-03
581828.91	4199185.71	76540.58454	0.39804	1.255E-02	5.399E-06	1.256E-02	1.957E-03	5.399E-06	1.963E-03
582321.72	4199157.81	76408.48919	0.5902	1.253E-02	8.006E-06	1.254E-02	1.954E-03	8.006E-06	1.962E-03
581986.74	4199228.27	76315.45162	0.41452	1.252E-02	5.623E-06	1.252E-02	1.951E-03	5.623E-06	1.957E-03
581770.81	4199139.71	75419.71213	0.40915	1.237E-02	5.550E-06	1.238E-02	1.929E-03	5.550E-06	1.934E-03
581874.14	4198759.36	74468.90045	1.37522	1.221E-02	1.865E-05	1.223E-02	1.904E-03	1.865E-05	1.923E-03
582162.09	4199211.68	74597.01556	0.46151	1.223E-02	6.260E-06	1.224E-02	1.907E-03	6.260E-06	1.914E-03
582489.73	4199018.94	74194.24191	1.25502	1.217E-02	1.702E-05	1.219E-02	1.897E-03	1.702E-05	1.914E-03
581959.42	4199230.22	74224.75386	0.40266	1.217E-02	5.462E-06	1.218E-02	1.898E-03	5.462E-06	1.903E-03
582426.71	4198694.14	73383.85303	2.38016	1.204E-02	3.229E-05	1.207E-02	1.876E-03	3.229E-05	1.909E-03
581794.05	4199162.71	73364.35693	0.40295	1.203E-02	5.466E-06	1.204E-02	1.876E-03	5.466E-06	1.881E-03
582452.99	4199075.13	72577.53432	0.87583	1.190E-02	1.188E-05	1.192E-02	1.856E-03	1.188E-05	1.868E-03
581932.1	4199230.22	72527.40787	0.38957	1.190E-02	5.285E-06	1.190E-02	1.855E-03	5.285E-06	1.860E-03
582178.42	4199211.68	72404.53234	0.46119	1.188E-02	6.256E-06	1.188E-02	1.851E-03	6.256E-06	1.858E-03
582087.14	4198657.53	71772.74588	1.2248	1.177E-02	1.661E-05	1.179E-02	1.835E-03	1.661E-05	1.852E-03
581747.57	4199116.71	71544.09542	0.40151	1.173E-02	5.446E-06	1.174E-02	1.829E-03	5.446E-06	1.835E-03
582372.12	4199143.27	71343.51703	0.62316	1.170E-02	8.453E-06	1.171E-02	1.824E-03	8.453E-06	1.833E-03
582057.48	4199232.66	70867.37935	0.41373	1.162E-02	5.612E-06	1.163E-02	1.812E-03	5.612E-06	1.818E-03
581852.15	4199208.71	70760.72407	0.37129	1.161E-02	5.037E-06	1.161E-02	1.809E-03	5.037E-06	1.814E-03
582490.71	4199041.33	70175.01203	1.05798	1.151E-02	1.435E-05	1.152E-02	1.794E-03	1.435E-05	1.809E-03
582407.97	4199122.75	70236.80065	0.68262	1.152E-02	9.260E-06	1.153E-02	1.796E-03	9.260E-06	1.805E-03
582194.75	4199211.68	70220.06544	0.46071	1.152E-02	6.250E-06	1.152E-02	1.796E-03	6.250E-06	1.802E-03
581817.29	4199185.71	70071.83688	0.3843	1.149E-02	5.213E-06	1.150E-02	1.792E-03	5.213E-06	1.797E-03
582456.75	4198691.44	68608.94287	2.24183	1.125E-02	3.041E-05	1.128E-02	1.754E-03	3.041E-05	1.785E-03
582022.79	4198673.88	68892.06187	1.15048	1.130E-02	1.561E-05	1.131E-02	1.762E-03	1.561E-05	1.777E-03
582285.87	4199189.48	68401.12655	0.50754	1.122E-02	6.885E-06	1.123E-02	1.749E-03	6.885E-06	1.756E-03
582188.52	4198632	67887.59595	1.21563	1.113E-02	1.649E-05	1.115E-02	1.736E-03	1.649E-05	1.752E-03
582211.08	4199211.68	68062.77276	0.46006	1.116E-02	6.241E-06	1.117E-02	1.740E-03	6.241E-06	1.747E-03
581983.72	4198688.94	67597.92761	1.13603	1.109E-02	1.541E-05	1.110E-02	1.729E-03	1.541E-05	1.744E-03
582127.74	4198640.17	67552.9417	1.15912	1.108E-02	1.572E-05	1.110E-02	1.727E-03	1.572E-05	1.743E-03
582129.43	4199229.01	67800.58974	0.42351	1.112E-02	5.745E-06	1.113E-02	1.734E-03	5.745E-06	1.739E-03
582489.41	4199058.52	67391.98833	0.94065	1.105E-02	1.276E-05	1.107E-02	1.723E-03	1.276E-05	1.736E-03
582322.12	4199178.13	67340.56968	0.53137	1.104E-02	7.208E-06	1.105E-02	1.722E-03	7.208E-06	1.729E-03
582453.1	4199098.75	66962.65355	0.75803	1.098E-02	1.028E-05	1.099E-02	1.712E-03	1.028E-05	1.723E-03
582232.93	4198626.24	66446.6898	1.24233	1.090E-02	1.685E-05	1.091E-02	1.699E-03	1.685E-05	1.716E-03
581759.19	4199139.71	66495.54267	0.38596	1.091E-02	5.236E-06	1.091E-02	1.700E-03	5.236E-06	1.706E-03
581782.43	4199162.71	66438.92242	0.38491	1.090E-02	5.221E-06	1.090E-02	1.699E-03	5.221E-06	1.704E-03
582145.76	4199229.01	66267.56382	0.42371	1.087E-02	5.748E-06	1.087E-02	1.694E-03	5.748E-06	1.700E-03
582358.21	4198636.45	65414.95129	1.49366	1.073E-02	2.026E-05	1.075E-02	1.673E-03	2.026E-05	1.693E-03
581768.41	4198847.77	65576.39095	0.82672	1.076E-02	1.121E-05	1.077E-02	1.677E-03	1.121E-05	1.688E-03
582255.58	4199204.8	65677.52896	0.47339	1.077E-02	6.422E-06	1.078E-02	1.679E-03	6.422E-06	1.686E-03
581840.53	4199208.71	65647.9773	0.36024	1.077E-02	4.887E-06	1.077E-02	1.679E-03	4.887E-06	1.684E-03
582390.66	4198643.37	64827.40741	1.57853	1.063E-02	2.141E-05	1.065E-02	1.658E-03	2.141E-05	1.679E-03
582263.57	4198621.43	64572.2524	1.23874	1.059E-02	1.680E-05	1.061E-02	1.651E-03	1.680E-05	1.668E-03
582162.09	4199229.01	64667.41775	0.42377	1.061E-02	5.748E-06	1.061E-02	1.654E-03	5.748E-06	1.659E-03
582410.49	4198646.97	64014.7111	1.61461	1.050E-02	2.190E-05	1.052E-02	1.637E-03	2.190E-05	1.659E-03
582406.38	4199143.07	64385.21266	0.61181	1.056E-02	8.299E-06	1.057E-02	1.646E-03	8.299E-06	1.655E-03
581805.67	4199185.71	64332.34986	0.37048	1.055E-02	5.026E-06	1.056E-02	1.645E-03	5.026E-06	1.650E-03
582290.61	4198620.83	63864.99939	1.26625	1.047E-02	1.718E-05	1.049E-02	1.633E-03	1.718E-05	1.650E-03
582369.13	4199164.98	64135.66404	0.55705	1.052E-02	7.556E-06	1.053E-02	1.640E-03	7.556E-06	1.648E-03
582178.42	4199229.01	63025.13693	0.42369	1.034E-02	5.747E-06	1.034E-02	1.612E-03	5.747E-06	1.617E-03
581845.33	4198763.25	61883.63372	1.12408	1.015E-02	1.525E-05	1.016E-02	1.582E-03	1.525E-05	1.598E-03
582320.35	4198617.23	61815.08132	1.25636	1.014E-02	1.704E-05	1.016E-02	1.581E-03	1.704E-05	1.598E-03
582492.01	4199084.8	61907.78403	0.79313	1.015E-02	1.076E-05	1.016E-02	1.583E-03	1.076E-05	1.594E-03
582348.9	4198620.83	61604.41426	1.31142	1.010E-02	1.779E-05	1.012E-02	1.575E-03	1.779E-05	1.593E-03
582453.7	4199121.45	61384.49607	0.66541	1.007E-02	9.026E-06	1.008E-02	1.570E-03	9.026E-06	1.579E-03
582194.75	4199229.01	61357.057	0.42346	1.006E-02	5.744E-06	1.007E-02	1.569E-03	5.744E-06	1.575E-03
582062.62	4198644.76	61065.28247	1.00602	1.002E-02	1.365E-05	1.003E-02	1.561E-03	1.365E-05	1.575E-03
582027.72	4199249.74	60997.26662	0.37775	1.000E-02	5.124E-06	1.001E-02	1.560E-03	5.124E-06	1.565E-03
581828.91	4199208.71	60950.37463	0.34978	9.997E-03	4.745E-06	1.000E-02	1.559E-03	4.745E-06	1.563E-03
581735.95	4199116.71	60885.96807	0.37621	9.986E-03	5.103E-06	9.991E-03	1.557E-03	5.103E-06	1.562E-03
581906.38	4198718.93	59873.19112	1.07501	9.820E-03	1.458E-05	9.834E-03	1.531E-03	1.458E-05	1.546E-03
581770.81	4199162.71	60150.51134	0.36671	9.865E-03	4.974E-06	9.870E-03	1.538E-03	4.974E-06	1.543E-03
582322.32	4199196.65	60031.71872	0.48452	9.846E-03	6.573E-06	9.852E-03	1.535E-03	6.573E-06	1.542E-03
582281.89	4199210.2	59954.65615	0.45872	9.833E-03	6.223E-06	9.839E-03	1.533E-03	6.223E-06	1.539E-03
582211.08	4199229.01	59696.58408	0.42306	9.791E-03	5.739E-06	9.797E-03	1.526E-03	5.739E-06	1.532E-03
581996.99	4199252.17	59683.55686	0.36867	9.789E-03	5.001E-06	9.794E-03	1.526E-03	5.001E-06	1.531E-03
582385.25	4198619.33	59232.52535	1.30508	9.715E-03	1.770E-05	9.732E-03	1.515E-03	1.770E-05	1.532E-03
582489.09	4199100.37	59451.72288	0.72533	9.751E-03	9.839E-06	9.761E-03	1.520E-03	9.839E-06	1.530E-03
581790.12	4198808.92	59160.12616	0.89457	9.703E-03	1.213E-05	9.715E-03	1.513E-03	1.213E-05	1.525E-03
581970.4	4199252.17	59131.25208	0.36243	9.698E-03	4.916E-06	9.703E-03	1.512E-03	4.916E-06	1.517E-03
582074.37	4198636.08	58873.11028	0.96596	9.656E-03	1.310E-05	9.669E-03	1.505E-03	1.310E-05	1.519E-03
581794.05	4199185.71	59120.24042	0.35667	9.696E-03	4.838E-06	9.701E-03	1.512E-03	4.838E-06	1.517E-03
582129.43	4199246.34	58659.50836	0.39006	9.621E-03	5.291E-06	9.626E-03	1.500E-03	5.291E-06	1.505E-03
581747.57	4199139.71	58631.28192	0.36444	9.616E-03	4.944E-06	9.621E-03	1.499E-03	4.944E-06	1.504E-03
582416.5	4198622.94	58082.62254	1.3378	9.526E-03	1.815E-05	9.544E-03	1.485E-03	1.815E-05	1.503E-03
582192.86	4198606.46	57989.87561	0.98174	9.511E-03	1.332E-05	9.524E-03	1.483E-03	1.332E-05	1.496E-03
582365.54	4199184.9	58058.83013	0.50476	9.522E-03	6.847E-06	9.529E-03	1.485E-03	6.847E-06	1.491E-03
582027.89	4198650.89	57579.416	0.9456	9.444E-03	1.283E-05	9.456E-03	1.472E-03	1.283E-05	1.485E-03
581946.01	4199252.66	57698.23362	0.35292	9.463E-03	4.787E-06	9.468E-03	1.475E-03	4.787E-06	1.480E-03
582145.76	4199246.34	57553.87125	0.3904	9.439E-03	5.296E-06	9.445E-03	1.472E-03	5.296E-06	1.477E-03
582407.57	4199166.57	57387.71163	0.5412	9.412E-03	7.341E-06	9.420E-03	1.467E-03	7.341E-06	1.475E-03
582438.43	4198622.94	56568.45853	1.32907	9.278E-03	1.803E-05	9.296E-03	1.446E-03	1.803E-05	1.465E-03
582012.32	4198655.75	56618.86637	0.93313	9.286E-03	1.266E-05	9.299E-03	1.448E-03	1.266E-05	1.460E-03
581817.29	4199208.71	56658.1585	0.33921	9.293E-03	4.601E-06	9.297E-03	1.449E-03	4.601E-06	1.453E-03
581918.44	4199251.2	56470.0623	0.33931	9.262E-03	4.603E-06	9.266E-03	1.444E-03	4.603E-06	1.449E-03
582162.09	4199246.34	56372.96024	0.3906	9.246E-03	5.299E-06	9.251E-03	1.441E-03	5.299E-06	1.447E-03
582453.43	4199143.84	56133.63908	0.58962	9.207E-03	7.998E-06	9.215E-03	1.435E-03	7.998E-06	1.443E-03
582509.93	4198651.18	55631.52833	1.54167	9.124E-03	2.091E-05	9.145E-03	1.423E-03	2.091E-05	1.443E-03
581866.37	4198738.32	55335.53436	1.03198	9.076E-03	1.400E-05	9.090E-03	1.415E-03	1.400E-05	1.429E-03
581852.15	4199231.71	55478.00766	0.32888	9.099E-03	4.461E-06	9.103E-03	1.419E-03	4.461E-06	1.423E-03
582489.09	4199121.45	55327.52308	0.64409	9.074E-03	8.737E-06	9.083E-03	1.415E-03	8.737E-06	1.423E-03
582122.12	4198612.33	55062.40127	0.88731	9.031E-03	1.204E-05	9.043E-03	1.408E-03	1.204E-05	1.420E-03
582178.42	4199246.34	55139.00307	0.39066	9.043E-03	5.299E-06	9.049E-03	1.410E-03	5.299E-06	1.415E-03
581759.19	4199162.71	54420.05651	0.349	8.925E-03	4.734E-06	8.930E-03	1.392E-03	4.734E-06	1.396E-03
581826.88	4198765.84	54152.74584	0.97606	8.882E-03	1.324E-05	8.895E-03	1.385E-03	1.324E-05	1.398E-03
581782.43	4199185.71	54336.55073	0.3429	8.912E-03	4.651E-06	8.916E-03	1.389E-03	4.651E-06	1.394E-03
582179.83	4198596.76	53986.19442	0.88532	8.854E-03	1.201E-05	8.866E-03	1.380E-03	1.201E-05	1.392E-03
581970.44	4198670.81	53881.42529	0.90397	8.837E-03	1.226E-05	8.849E-03	1.378E-03	1.226E-05	1.390E-03
582194.75	4199246.34	53873.00217	0.39057	8.836E-03	5.298E-06	8.841E-03	1.378E-03	5.298E-06	1.383E-03
582477.18	4198619.33	53160.8151	1.2719	8.719E-03	1.725E-05	8.736E-03	1.359E-03	1.725E-05	1.377E-03
582510.23	4198634.05	53007.44426	1.37128	8.694E-03	1.860E-05	8.712E-03	1.355E-03	1.860E-05	1.374E-03
582066.71	4198624.59	52911.35563	0.85655	8.678E-03	1.162E-05	8.690E-03	1.353E-03	1.162E-05	1.365E-03
582267.85	4198582.59	52489.03519	0.9095	8.609E-03	1.234E-05	8.621E-03	1.342E-03	1.234E-05	1.354E-03
581712.61	4199076.69	52682.41314	0.37322	8.640E-03	5.063E-06	8.646E-03	1.347E-03	5.063E-06	1.352E-03
581805.67	4199208.71	52697.59053	0.32856	8.643E-03	4.457E-06	8.647E-03	1.347E-03	4.457E-06	1.352E-03
582211.08	4199246.34	52598.13169	0.39033	8.627E-03	5.295E-06	8.632E-03	1.345E-03	5.295E-06	1.350E-03
582285.73	4198581.07	52199.00028	0.9177	8.561E-03	1.245E-05	8.574E-03	1.335E-03	1.245E-05	1.347E-03
581840.53	4199231.71	52407.6961	0.32063	8.595E-03	4.349E-06	8.600E-03	1.340E-03	4.349E-06	1.344E-03
582317.3	4198580.69	51985.82104	0.94319	8.526E-03	1.279E-05	8.539E-03	1.329E-03	1.279E-05	1.342E-03
581735.95	4199139.71	51840.36742	0.3443	8.502E-03	4.670E-06	8.507E-03	1.326E-03	4.670E-06	1.330E-03
582370.72	4199204.02	51604.50442	0.459	8.464E-03	6.226E-06	8.470E-03	1.320E-03	6.226E-06	1.326E-03
582286.27	4199232.11	51395.23766	0.41315	8.429E-03	5.604E-06	8.435E-03	1.314E-03	5.604E-06	1.320E-03
582325.51	4199220.95	51318.33076	0.43092	8.417E-03	5.845E-06	8.423E-03	1.312E-03	5.845E-06	1.318E-03
582353.06	4198579.17	51058.26205	0.95671	8.374E-03	1.298E-05	8.387E-03	1.306E-03	1.298E-05	1.319E-03
582492.01	4199140.92	51146.28068	0.57886	8.389E-03	7.852E-06	8.396E-03	1.308E-03	7.852E-06	1.316E-03
582242.37	4198578.41	50892.57897	0.8521	8.347E-03	1.156E-05	8.358E-03	1.301E-03	1.156E-05	1.313E-03
582129.43	4199263.67	51087.9744	0.36057	8.379E-03	4.891E-06	8.384E-03	1.306E-03	4.891E-06	1.311E-03
582454.03	4199166.54	50932.93886	0.52473	8.354E-03	7.118E-06	8.361E-03	1.302E-03	7.118E-06	1.309E-03
582511.43	4198618.73	50626.53698	1.23854	8.303E-03	1.680E-05	8.320E-03	1.295E-03	1.680E-05	1.311E-03
581773.74	4198811.97	50714.09244	0.76337	8.318E-03	1.036E-05	8.328E-03	1.297E-03	1.036E-05	1.307E-03
582103.83	4199266.81	50855.274	0.35459	8.341E-03	4.810E-06	8.346E-03	1.300E-03	4.810E-06	1.305E-03
582408.57	4199190.88	50778.06821	0.47967	8.328E-03	6.507E-06	8.335E-03	1.298E-03	6.507E-06	1.305E-03
582380.82	4198578.41	50191.743	0.96444	8.232E-03	1.308E-05	8.245E-03	1.283E-03	1.308E-05	1.297E-03
582145.76	4199263.67	50290.60419	0.361	8.248E-03	4.897E-06	8.253E-03	1.286E-03	4.897E-06	1.291E-03
581770.81	4199185.71	49917.52515	0.32944	8.187E-03	4.469E-06	8.191E-03	1.276E-03	4.469E-06	1.281E-03
581747.46	4198847.01	49747.1805	0.65884	8.159E-03	8.937E-06	8.168E-03	1.272E-03	8.937E-06	1.281E-03

582408.59	4198579.55	49518.42091	0.98005	8.122E-03	1.329E-05	8.135E-03	1.266E-03	1.329E-05	1.279E-03
582437.88	4198584.49	49267.38933	1.01604	8.080E-03	1.378E-05	8.094E-03	1.260E-03	1.378E-05	1.274E-03
582162.09	4199263.67	49420.1635	0.36128	8.105E-03	4.901E-06	8.110E-03	1.264E-03	4.901E-06	1.269E-03
581828.91	4199231.71	49439.51193	0.31226	8.109E-03	4.236E-06	8.113E-03	1.264E-03	4.236E-06	1.268E-03
581747.57	4199162.71	49245.72116	0.33187	8.077E-03	4.502E-06	8.081E-03	1.259E-03	4.502E-06	1.264E-03
582258.34	4198569.66	48933.95799	0.81402	8.026E-03	1.104E-05	8.037E-03	1.251E-03	1.104E-05	1.262E-03
581794.05	4199208.71	49020.66912	0.31786	8.040E-03	4.312E-06	8.044E-03	1.253E-03	4.312E-06	1.258E-03
582024.79	4199274.62	48929.10465	0.33587	8.025E-03	4.556E-06	8.029E-03	1.251E-03	4.556E-06	1.256E-03
582178.42	4199263.67	48493.73221	0.36143	7.953E-03	4.903E-06	7.958E-03	1.240E-03	4.903E-06	1.245E-03
582185.2	4198576.33	48036.74926	0.7642	7.879E-03	1.037E-05	7.889E-03	1.228E-03	1.037E-05	1.239E-03
582488.44	4199162	47631.22008	0.52184	7.812E-03	7.079E-06	7.819E-03	1.218E-03	7.079E-06	1.225E-03
582194.75	4199263.67	47527.98377	0.36143	7.795E-03	4.903E-06	7.800E-03	1.215E-03	4.903E-06	1.220E-03
582470.59	4198581.45	47253.12012	0.99232	7.750E-03	1.346E-05	7.763E-03	1.208E-03	1.346E-05	1.222E-03
582043.73	4198617.95	47045.16965	0.75836	7.716E-03	1.029E-05	7.726E-03	1.203E-03	1.029E-05	1.213E-03
581817.29	4199231.71	46589.94111	0.3038	7.641E-03	4.121E-06	7.645E-03	1.191E-03	4.121E-06	1.195E-03
582211.08	4199263.67	46537.98283	0.36128	7.633E-03	4.901E-06	7.638E-03	1.190E-03	4.901E-06	1.195E-03
582455.05	4199187.31	46378.03258	0.47375	7.606E-03	6.426E-06	7.613E-03	1.186E-03	6.426E-06	1.192E-03
582505.2	4198584.11	45946.76742	0.99889	7.536E-03	1.355E-05	7.549E-03	1.175E-03	1.355E-05	1.188E-03
582290.65	4199248.24	46008.51916	0.38368	7.546E-03	5.205E-06	7.551E-03	1.176E-03	5.205E-06	1.182E-03
581801.63	4198771.02	45749.34919	0.80186	7.503E-03	1.088E-05	7.514E-03	1.170E-03	1.088E-05	1.181E-03
582409.96	4199210.59	45837.02829	0.43662	7.518E-03	5.923E-06	7.524E-03	1.172E-03	5.923E-06	1.178E-03
581759.19	4199185.71	45858.72935	0.31615	7.521E-03	4.289E-06	7.526E-03	1.173E-03	4.289E-06	1.177E-03
582371.32	4199226.13	45598.81746	0.41394	7.479E-03	5.615E-06	7.484E-03	1.166E-03	5.615E-06	1.172E-03
581782.43	4199208.71	45597.26383	0.30713	7.478E-03	4.166E-06	7.483E-03	1.166E-03	4.166E-06	1.170E-03
582000.06	4198633.53	45163.68847	0.74335	7.407E-03	1.008E-05	7.417E-03	1.155E-03	1.008E-05	1.165E-03
581892.17	4198698.08	44860.95546	0.8266	7.358E-03	1.121E-05	7.369E-03	1.147E-03	1.121E-05	1.158E-03
582331.68	4199241.07	44947.89656	0.39228	7.372E-03	5.321E-06	7.377E-03	1.149E-03	5.321E-06	1.155E-03
581852.15	4199254.71	44962.4885	0.29489	7.374E-03	4.000E-06	7.378E-03	1.150E-03	4.000E-06	1.154E-03
581962.78	4198652.94	44765.3258	0.7555	7.342E-03	1.025E-05	7.352E-03	1.145E-03	1.025E-05	1.155E-03
582129.43	4199281	44789.34091	0.33443	7.346E-03	4.537E-06	7.350E-03	1.145E-03	4.537E-06	1.150E-03
581735.95	4199162.71	44608.51689	0.31538	7.316E-03	4.278E-06	7.321E-03	1.141E-03	4.278E-06	1.145E-03
582145.76	4199281	44212.131	0.33491	7.251E-03	4.543E-06	7.256E-03	1.131E-03	4.543E-06	1.135E-03
582490.71	4199181.47	43820.39133	0.47378	7.187E-03	6.427E-06	7.193E-03	1.121E-03	6.427E-06	1.127E-03
581805.67	4199231.71	43863.77565	0.29527	7.194E-03	4.005E-06	7.198E-03	1.122E-03	4.005E-06	1.126E-03
581704.58	4199103.82	43656.93905	0.3291	7.160E-03	4.464E-06	7.165E-03	1.116E-03	4.464E-06	1.121E-03
582162.09	4199281	43567.76483	0.33525	7.146E-03	4.548E-06	7.150E-03	1.114E-03	4.548E-06	1.119E-03
582066.71	4198596.25	43307.82239	0.68467	7.103E-03	9.288E-06	7.112E-03	1.107E-03	9.288E-06	1.117E-03
581752.03	4198816.54	42882.94933	0.63061	7.033E-03	8.554E-06	7.042E-03	1.097E-03	8.554E-06	1.105E-03
582235.92	4198546.93	42859.37636	0.67255	7.029E-03	9.123E-06	7.039E-03	1.096E-03	9.123E-06	1.105E-03
581840.53	4199254.71	42954.16575	0.28813	7.045E-03	3.908E-06	7.049E-03	1.098E-03	3.908E-06	1.102E-03
582178.42	4199281	42869.65833	0.33544	7.031E-03	4.550E-06	7.036E-03	1.096E-03	4.550E-06	1.101E-03
581770.81	4199208.71	42374.11067	0.29704	6.950E-03	4.029E-06	6.954E-03	1.084E-03	4.029E-06	1.088E-03
581747.57	4199185.71	42154.7901	0.30291	6.914E-03	4.109E-06	6.918E-03	1.078E-03	4.109E-06	1.082E-03
582194.75	4199281	42130.3362	0.33549	6.910E-03	4.551E-06	6.914E-03	1.077E-03	4.551E-06	1.082E-03
581993.82	4199292.18	42117.81384	0.30564	6.908E-03	4.146E-06	6.912E-03	1.077E-03	4.146E-06	1.081E-03
582107.06	4198574.28	41599.64183	0.63873	6.823E-03	8.664E-06	6.831E-03	1.064E-03	8.664E-06	1.072E-03
581964.06	4199291.2	41681.45933	0.30003	6.836E-03	4.070E-06	6.840E-03	1.066E-03	4.070E-06	1.070E-03
582450.46	4199213.91	41483.42234	0.4198	6.804E-03	5.695E-06	6.809E-03	1.061E-03	5.695E-06	1.066E-03
582184.94	4198549.77	41245.48969	0.63225	6.765E-03	8.576E-06	6.773E-03	1.055E-03	8.576E-06	1.063E-03
582211.08	4199281	41362.24179	0.33541	6.784E-03	4.550E-06	6.788E-03	1.058E-03	4.550E-06	1.062E-03
581930.15	4199287.79	41368.95887	0.29078	6.785E-03	3.944E-06	6.789E-03	1.058E-03	3.944E-06	1.062E-03
582497.98	4198547.22	41108.98752	0.80096	6.742E-03	1.087E-05	6.753E-03	1.051E-03	1.087E-05	1.062E-03
582406.18	4199232.7	41238.43107	0.39559	6.764E-03	5.366E-06	6.769E-03	1.054E-03	5.366E-06	1.060E-03
581794.05	4199231.71	41262.88947	0.28669	6.768E-03	3.889E-06	6.771E-03	1.055E-03	3.889E-06	1.059E-03
581828.91	4199254.71	40956.6766	0.28127	6.717E-03	3.815E-06	6.721E-03	1.047E-03	3.815E-06	1.051E-03
581706.53	4199127.91	40737.3863	0.30948	6.681E-03	4.198E-06	6.686E-03	1.042E-03	4.198E-06	1.046E-03
582421.52	4198528.2	40311.01019	0.7015	6.611E-03	9.516E-06	6.621E-03	1.031E-03	9.516E-06	1.040E-03
582376.26	4198524.39	40180.8911	0.66728	6.590E-03	9.052E-06	6.599E-03	1.027E-03	9.052E-06	1.036E-03
582023.82	4199299.01	40286.56803	0.30165	6.607E-03	4.092E-06	6.612E-03	1.030E-03	4.092E-06	1.034E-03
582053.58	4199299.5	40263.8528	0.30476	6.604E-03	4.134E-06	6.608E-03	1.030E-03	4.134E-06	1.034E-03
582448.15	4198529.72	40048.45341	0.71521	6.568E-03	9.702E-06	6.578E-03	1.024E-03	9.702E-06	1.034E-03
582342.41	4198523.25	40017.1395	0.6447	6.563E-03	8.745E-06	6.572E-03	1.023E-03	8.745E-06	1.032E-03
582319.96	4198523.25	39870.5661	0.63097	6.539E-03	8.559E-06	6.548E-03	1.020E-03	8.559E-06	1.028E-03
582491.03	4199205.15	39684.28056	0.42429	6.509E-03	5.756E-06	6.514E-03	1.015E-03	5.756E-06	1.020E-03
582165.02	4198546.96	39439.19124	0.59825	6.468E-03	8.115E-06	6.477E-03	1.008E-03	8.115E-06	1.017E-03
582129.43	4199298.33	39525.85129	0.31111	6.483E-03	4.220E-06	6.487E-03	1.011E-03	4.220E-06	1.015E-03
582300.57	4198521.73	39351.31271	0.612	6.454E-03	8.302E-06	6.462E-03	1.006E-03	8.302E-06	1.015E-03
581759.19	4199208.71	39384.60924	0.2868	6.459E-03	3.890E-06	6.463E-03	1.007E-03	3.890E-06	1.011E-03
581852.13	4198711.77	39183.16721	0.75065	6.426E-03	1.018E-05	6.437E-03	1.002E-03	1.018E-05	1.012E-03
582477.06	4198527.82	39121.23286	0.71224	6.416E-03	9.662E-06	6.426E-03	1.000E-03	9.662E-06	1.010E-03
582306.98	4199270.15	39230.62565	0.34758	6.434E-03	4.715E-06	6.439E-03	1.003E-03	4.715E-06	1.008E-03
582145.76	4199298.33	39104.21238	0.31164	6.414E-03	4.227E-06	6.418E-03	9.999E-04	4.227E-06	1.004E-03
581942.35	4198647.32	38896.7104	0.67003	6.379E-03	9.089E-06	6.389E-03	9.946E-04	9.089E-06	1.004E-03
582263.39	4198523.33	38866.29674	0.59076	6.374E-03	8.014E-06	6.383E-03	9.938E-04	8.014E-06	1.002E-03
581817.29	4199254.71	38989.53185	0.27434	6.395E-03	3.721E-06	6.398E-03	9.970E-04	3.721E-06	1.001E-03
581735.95	4199185.71	38803.22241	0.28947	6.364E-03	3.927E-06	6.368E-03	9.922E-04	3.927E-06	9.961E-04
581782.43	4199231.71	38789.64678	0.27808	6.362E-03	3.772E-06	6.366E-03	9.919E-04	3.772E-06	9.956E-04
582162.09	4199298.33	38623.67827	0.31201	6.335E-03	4.232E-06	6.339E-03	9.876E-04	4.232E-06	9.919E-04
581722.7	4198848.15	38500.83392	0.52337	6.315E-03	7.100E-06	6.322E-03	9.845E-04	7.100E-06	9.916E-04
581840.8	4198717.93	38345.34221	0.73838	6.289E-03	1.002E-05	6.299E-03	9.805E-04	1.002E-05	9.905E-04
582220.59	4199291.38	38228.97645	0.32114	6.270E-03	4.356E-06	6.274E-03	9.775E-04	4.356E-06	9.819E-04
582352.4	4199263.38	38210.84446	0.35352	6.267E-03	4.796E-06	6.272E-03	9.771E-04	4.796E-06	9.819E-04
582178.42	4199298.33	38093.75262	0.31224	6.248E-03	4.236E-06	6.252E-03	9.741E-04	4.236E-06	9.783E-04
581778.32	4198769.72	37817.7446	0.64652	6.203E-03	8.770E-06	6.211E-03	9.670E-04	8.770E-06	9.758E-04
582120.08	4198552.58	37486.10767	0.56748	6.148E-03	7.698E-06	6.156E-03	9.585E-04	7.698E-06	9.662E-04
582194.75	4199298.33	37524.41573	0.31232	6.154E-03	4.237E-06	6.159E-03	9.595E-04	4.237E-06	9.637E-04
582451.81	4199235.64	37377.45518	0.38079	6.130E-03	5.165E-06	6.135E-03	9.558E-04	5.165E-06	9.609E-04
582371.32	4199262.38	37342.39055	0.35275	6.125E-03	4.785E-06	6.129E-03	9.549E-04	4.785E-06	9.596E-04
581852.15	4199277.71	37373.37018	0.26662	6.130E-03	3.617E-06	6.133E-03	9.556E-04	3.617E-06	9.593E-04
582486.17	4199222.66	37176.21139	0.39385	6.097E-03	5.343E-06	6.103E-03	9.506E-04	5.343E-06	9.560E-04
582247.01	4199291.38	37109.12943	0.3206	6.086E-03	4.349E-06	6.091E-03	9.489E-04	4.349E-06	9.532E-04
581805.67	4199254.71	37065.20213	0.26737	6.079E-03	3.627E-06	6.083E-03	9.478E-04	3.627E-06	9.514E-04
582393	4198503.85	36901.69667	0.59555	6.052E-03	8.079E-06	6.060E-03	9.436E-04	8.079E-06	9.517E-04
582211.08	4199298.33	36925.26745	0.31227	6.056E-03	4.236E-06	6.060E-03	9.442E-04	4.236E-06	9.484E-04
581989.91	4199310.23	36617.23802	0.28208	6.006E-03	3.826E-06	6.009E-03	9.363E-04	3.826E-06	9.401E-04
581747.57	4199208.71	36618.05198	0.27648	6.006E-03	3.750E-06	6.010E-03	9.363E-04	3.750E-06	9.401E-04
582138.21	4198541.09	36381.38288	0.54659	5.967E-03	7.415E-06	5.974E-03	9.303E-04	7.415E-06	9.377E-04
581770.81	4199231.71	36440.74372	0.26958	5.977E-03	3.657E-06	5.980E-03	9.318E-04	3.657E-06	9.355E-04
582352.18	4198500.25	36302.85505	0.56429	5.954E-03	7.655E-06	5.962E-03	9.283E-04	7.655E-06	9.359E-04
581953.84	4198630.72	36254.32943	0.62071	5.946E-03	8.420E-06	5.955E-03	9.270E-04	8.420E-06	9.355E-04
581704.79	4199150.91	36332.25654	0.28568	5.959E-03	3.875E-06	5.963E-03	9.290E-04	3.875E-06	9.329E-04
582403.19	4199258.8	36227.48034	0.35359	5.942E-03	4.796E-06	5.946E-03	9.263E-04	4.796E-06	9.311E-04
581960.15	4199309.25	36191.71165	0.27639	5.936E-03	3.749E-06	5.940E-03	9.254E-04	3.749E-06	9.292E-04
581827.2	4198720.51	35974.90721	0.69472	5.900E-03	9.424E-06	5.910E-03	9.199E-04	9.424E-06	9.293E-04
581840.53	4199277.71	35966.69615	0.26098	5.899E-03	3.540E-06	5.902E-03	9.197E-04	3.540E-06	9.232E-04
582064.92	4198566.62	35566.63153	0.54792	5.833E-03	7.433E-06	5.841E-03	9.095E-04	7.433E-06	9.169E-04
581680.98	4198977.56	35453.56071	0.3611	5.815E-03	4.898E-06	5.820E-03	9.066E-04	4.898E-06	9.115E-04
582447.01	4198495.11	35317.34144	0.58408	5.792E-03	7.923E-06	5.800E-03	9.031E-04	7.923E-06	9.110E-04
581683.93	4198954.61	35341.91172	0.38064	5.796E-03	5.163E-06	5.802E-03	9.037E-04	5.163E-06	9.089E-04
581986.27	4198606.97	35221.60637	0.58696	5.777E-03	7.962E-06	5.785E-03	9.006E-04	7.962E-06	9.086E-04
581681.83	4198965.56	35201.24335	0.36944	5.773E-03	5.011E-06	5.778E-03	9.001E-04	5.011E-06	9.051E-04
582288.64	4198498.46	35133.41224	0.52237	5.762E-03	7.086E-06	5.769E-03	8.984E-04	7.086E-06	9.055E-04
582105.78	4198546.96	35113.57778	0.53065	5.759E-03	7.198E-06	5.766E-03	8.979E-04	7.198E-06	9.051E-04
581794.05	4199254.71	35193.27322	0.26035	5.772E-03	3.532E-06	5.776E-03	8.999E-04	3.532E-06	9.034E-04
582129.43	4199315.66	35105.15917	0.29021	5.758E-03	3.937E-06	5.762E-03	8.977E-04	3.937E-06	9.016E-04
582317.94	4199287.68	34872.85895	0.32226	5.720E-03	4.371E-06	5.724E-03	8.917E-04	4.371E-06	8.961E-04
582145.76	4199315.66	34793.0388	0.29077	5.706E-03	3.944E-06	5.710E-03	8.897E-04	3.944E-06	8.936E-04
581932.59	4199311.21	34679.77809	0.26368	5.688E-03	3.577E-06	5.691E-03	8.868E-04	3.577E-06	8.903E-04
582219.1	4198507.49	34474.48144	0.50221	5.654E-03	6.812E-06	5.661E-03	8.815E-04	6.812E-06	8.883E-04
581828.91	4199277.71	34550.51792	0.25526	5.667E-03	3.463E-06	5.670E-03	8.835E-04	3.463E-06	8.869E-04
582162.09	4199315.66	34430.30321	0.29117	5.647E-03	3.950E-06	5.651E-03	8.804E-04	3.950E-06	8.843E-04
581759.19	4199231.71	34227.86342	0.26095	5.614E-03	3.540E-06	5.617E-03	8.752E-04	3.540E-06	8.788E-04
581735.95	4199208.71	34062.09824	0.26615	5.587E-03	3.610E-06	5.590E-03	8.710E-04	3.610E-06	8.746E-04
582178.42	4199315.66	34024.09683	0.29142	5.580E-03	3.953E-06	5.584E-03	8.700E-04	3.953E-06	8.740E-04
581802.28	4198732.17	33682.0207	0.63395	5.524E-03	8.600E-06	5.533E-03	8.613E-04	8.600E-06	8.699E-04
582486.49	4199244.4	33781.27407	0.35859	5.540E-03	4.864E-06	5.545E-03	8.638E-04	4.864E-06	8.687E-04
582194.75	4199315.66	33581.87581	0.29152	5.508E-03	3.954E-06	5.512E-03	8.587E-04	3.954E-06	8.627E-04
582452.4	4199258.35	33541.79853	0.34551	5.501E-03	4.687E-06	5.506E-03	8.577E-04	4.687E-06	8.624E-04
581877.22	4198672.61	33375.43993	0.63454	5.474E-03	8.608E-06	5.483E-03	8.534E-04	8.608E-06	8.620E-04
581754.69	4198773.61	33324.4111	0.53638	5.466E-03	7.276E-06	5.473E-03	8.521E-04	7.276E-06	8.594E-04

581672.59	4199008.78	33392.05116	0.32648	5.477E-03	4.429E-06	5.481E-03	8.538E-04	4.429E-06	8.583E-04
581782.43	4199254.71	33381.62045	0.2533	5.475E-03	3.436E-06	5.478E-03	8.536E-04	3.436E-06	8.570E-04
581817.29	4199277.71	33137.61544	0.2495	5.435E-03	3.384E-06	5.438E-03	8.473E-04	3.384E-06	8.507E-04
582211.08	4199315.66	33110.9656	0.2915	5.431E-03	3.954E-06	5.435E-03	8.467E-04	3.954E-06	8.506E-04
581721.18	4198813.49	32686.01523	0.47792	5.361E-03	6.483E-06	5.367E-03	8.358E-04	6.483E-06	8.423E-04
581679.93	4198928.92	32524.38363	0.378	5.334E-03	5.128E-06	5.339E-03	8.317E-04	5.128E-06	8.368E-04
582334.93	4198474.69	32426.08143	0.47814	5.318E-03	6.486E-06	5.325E-03	8.291E-04	6.486E-06	8.356E-04
582375.5	4198470.76	32310.54909	0.48548	5.299E-03	6.586E-06	5.306E-03	8.262E-04	6.586E-06	8.328E-04
582334.47	4199298.04	32229.94417	0.30783	5.286E-03	4.176E-06	5.290E-03	8.241E-04	4.176E-06	8.283E-04
581703.49	4199176.3	32189.79509	0.26227	5.279E-03	3.558E-06	5.283E-03	8.231E-04	3.558E-06	8.267E-04
582312.48	4198474.69	32064.2326	0.46704	5.259E-03	6.335E-06	5.265E-03	8.199E-04	6.335E-06	8.262E-04
581747.57	4199231.71	32133.07414	0.25259	5.270E-03	3.426E-06	5.274E-03	8.217E-04	3.426E-06	8.251E-04
582403.59	4199282.9	31970.08318	0.31985	5.243E-03	4.339E-06	5.248E-03	8.175E-04	4.339E-06	8.218E-04
582025.53	4199332.18	31846.12218	0.26355	5.223E-03	3.575E-06	5.227E-03	8.143E-04	3.575E-06	8.179E-04
582220.59	4199320.81	31816.60604	0.28566	5.218E-03	3.875E-06	5.222E-03	8.136E-04	3.875E-06	8.174E-04
582055.29	4199333.16	31747.70101	0.26597	5.207E-03	3.608E-06	5.211E-03	8.118E-04	3.608E-06	8.154E-04
582421.52	4198464.3	31649.72489	0.48515	5.191E-03	6.581E-06	5.197E-03	8.093E-04	6.581E-06	8.159E-04
581805.67	4199277.71	31737.8729	0.24369	5.205E-03	3.306E-06	5.209E-03	8.115E-04	3.306E-06	8.149E-04
581852.15	4199300.71	31655.19773	0.24312	5.192E-03	3.298E-06	5.195E-03	8.094E-04	3.298E-06	8.127E-04
581770.81	4199254.71	31636.82826	0.24623	5.189E-03	3.340E-06	5.192E-03	8.090E-04	3.340E-06	8.123E-04
582293.09	4198473.17	31453.24098	0.45301	5.159E-03	6.145E-06	5.165E-03	8.043E-04	6.145E-06	8.104E-04
582261.13	4198479.04	31447.2948	0.45035	5.158E-03	6.109E-06	5.164E-03	8.041E-04	6.109E-06	8.102E-04
582181.93	4198498.76	31322.17481	0.44952	5.137E-03	6.098E-06	5.143E-03	8.009E-04	6.098E-06	8.070E-04
582129.43	4199332.99	31371.21488	0.27138	5.145E-03	3.681E-06	5.149E-03	8.022E-04	3.681E-06	8.059E-04
581991.38	4199333.16	31186.62435	0.25712	5.115E-03	3.488E-06	5.118E-03	7.975E-04	3.488E-06	8.009E-04
582145.76	4199332.99	31136.46976	0.27197	5.107E-03	3.689E-06	5.110E-03	7.962E-04	3.689E-06	7.999E-04
582247.01	4199320.81	31048.88534	0.28524	5.092E-03	3.869E-06	5.096E-03	7.939E-04	3.869E-06	7.978E-04
581946.43	4198612.33	30843.20792	0.53648	5.059E-03	7.277E-06	5.066E-03	7.887E-04	7.277E-06	7.959E-04
582162.09	4199332.99	30858.8574	0.27238	5.061E-03	3.695E-06	5.065E-03	7.891E-04	3.695E-06	7.928E-04
581664.59	4199034.29	30831.13524	0.29975	5.057E-03	4.066E-06	5.061E-03	7.884E-04	4.066E-06	7.924E-04
581961.62	4199332.18	30826.79378	0.25218	5.056E-03	3.421E-06	5.059E-03	7.883E-04	3.421E-06	7.917E-04
581666.25	4198975.24	30718.87716	0.32645	5.038E-03	4.428E-06	5.043E-03	7.855E-04	4.428E-06	7.899E-04
582490.38	4199264.84	30668.63473	0.32867	5.030E-03	4.458E-06	5.034E-03	7.842E-04	4.458E-06	7.887E-04
581667.51	4198962.61	30628.79738	0.33455	5.023E-03	4.538E-06	5.028E-03	7.832E-04	4.538E-06	7.877E-04
582372.91	4199298.83	30621.26941	0.30346	5.022E-03	4.116E-06	5.026E-03	7.830E-04	4.116E-06	7.871E-04
581840.53	4199300.71	30623.36936	0.23833	5.023E-03	3.233E-06	5.026E-03	7.830E-04	3.233E-06	7.863E-04
582178.42	4199332.99	30543.49205	0.27265	5.009E-03	3.699E-06	5.013E-03	7.810E-04	3.699E-06	7.847E-04
581779.94	4198736.05	30393.80152	0.55069	4.985E-03	7.470E-06	4.992E-03	7.772E-04	7.470E-06	7.846E-04
581670.07	4199104.69	30450.75917	0.2721	4.994E-03	3.691E-06	4.998E-03	7.786E-04	3.691E-06	7.823E-04
581794.05	4199277.71	30358.98963	0.23785	4.979E-03	3.226E-06	4.982E-03	7.763E-04	3.226E-06	7.795E-04
581932.59	4199330.23	30345.66585	0.24449	4.977E-03	3.317E-06	4.980E-03	7.759E-04	3.317E-06	7.793E-04
582194.75	4199332.99	30195.87266	0.27278	4.952E-03	3.700E-06	4.956E-03	7.721E-04	3.700E-06	7.758E-04
581735.95	4199231.71	30152.95855	0.2445	4.945E-03	3.317E-06	4.949E-03	7.710E-04	3.317E-06	7.743E-04
581709.57	4199199.96	30144.20176	0.24993	4.944E-03	3.390E-06	4.947E-03	7.708E-04	3.390E-06	7.742E-04
582450.48	4199281.7	30110.06326	0.31437	4.938E-03	4.264E-06	4.943E-03	7.699E-04	4.264E-06	7.742E-04
581759.19	4199254.71	29964.02364	0.23914	4.914E-03	3.244E-06	4.918E-03	7.662E-04	3.244E-06	7.694E-04
582165.44	4198494.56	29810.80867	0.42737	4.889E-03	5.797E-06	4.895E-03	7.623E-04	5.797E-06	7.681E-04
582211.08	4199332.99	29821.95799	0.27278	4.891E-03	3.700E-06	4.895E-03	7.626E-04	3.700E-06	7.663E-04
581828.91	4199300.71	29575.9722	0.2336	4.851E-03	3.169E-06	4.854E-03	7.563E-04	3.169E-06	7.594E-04
582042.19	4198545.68	29222.27276	0.45615	4.793E-03	6.188E-06	4.799E-03	7.472E-04	6.188E-06	7.534E-04
582412.14	4198442.36	29160.27229	0.42773	4.783E-03	5.802E-06	4.788E-03	7.456E-04	5.802E-06	7.514E-04
582137.32	4198500.7	29133.04083	0.42394	4.778E-03	5.751E-06	4.784E-03	7.449E-04	5.751E-06	7.507E-04
582448.72	4198440.71	29051.08008	0.43521	4.765E-03	5.904E-06	4.771E-03	7.428E-04	5.904E-06	7.487E-04
582389.7	4198442.36	29028.91878	0.42009	4.761E-03	5.699E-06	4.767E-03	7.423E-04	5.699E-06	7.480E-04
582471.16	4198440.71	29001.96732	0.44187	4.757E-03	5.994E-06	4.763E-03	7.416E-04	5.994E-06	7.476E-04
581660.96	4199076.26	29036.4594	0.27411	4.762E-03	3.718E-06	4.766E-03	7.425E-04	3.718E-06	7.462E-04
581782.43	4199277.71	29007.70175	0.23199	4.758E-03	3.147E-06	4.761E-03	7.417E-04	3.147E-06	7.449E-04
582370.3	4198440.84	28684.00253	0.4096	4.704E-03	5.556E-06	4.710E-03	7.335E-04	5.556E-06	7.390E-04
582306.03	4198447.72	28461.51739	0.39874	4.668E-03	5.409E-06	4.673E-03	7.278E-04	5.409E-06	7.332E-04
581817.29	4199300.71	28527.26591	0.2287	4.679E-03	3.102E-06	4.682E-03	7.295E-04	3.102E-06	7.326E-04
582404.77	4199306.04	28381.0498	0.29162	4.655E-03	3.956E-06	4.659E-03	7.257E-04	3.956E-06	7.297E-04
581728.14	4198773.61	28285.41269	0.44215	4.639E-03	5.998E-06	4.645E-03	7.233E-04	5.998E-06	7.293E-04
581747.57	4199254.71	28358.60108	0.23225	4.651E-03	3.150E-06	4.654E-03	7.251E-04	3.150E-06	7.283E-04
582210.05	4198468.37	28156.01721	0.39552	4.618E-03	5.365E-06	4.623E-03	7.200E-04	5.365E-06	7.253E-04
582129.43	4199350.32	28197.9027	0.25435	4.625E-03	3.450E-06	4.628E-03	7.210E-04	3.450E-06	7.245E-04
581659.72	4198947.03	28012.52101	0.32261	4.594E-03	4.376E-06	4.599E-03	7.163E-04	4.376E-06	7.207E-04
582145.76	4199350.32	28018.52381	0.25495	4.595E-03	3.458E-06	4.599E-03	7.164E-04	3.458E-06	7.199E-04
581683.82	4198850.48	27855.75762	0.3843	4.569E-03	5.213E-06	4.574E-03	7.123E-04	5.213E-06	7.175E-04
582489.41	4199286.57	27884.87383	0.30163	4.573E-03	4.092E-06	4.578E-03	7.130E-04	4.092E-06	7.171E-04
581865.08	4198655.12	27728.91596	0.53818	4.548E-03	7.300E-06	4.555E-03	7.090E-04	7.300E-06	7.163E-04
582162.09	4199350.32	27802.54344	0.25539	4.560E-03	3.464E-06	4.563E-03	7.109E-04	3.464E-06	7.144E-04
582341.79	4198435.55	27721.66565	0.38723	4.547E-03	5.253E-06	4.552E-03	7.089E-04	5.253E-06	7.141E-04
581664.43	4199127.04	27745.42364	0.25167	4.551E-03	3.414E-06	4.554E-03	7.095E-04	3.414E-06	7.129E-04
581770.81	4199277.71	27690.10472	0.2261	4.541E-03	3.067E-06	4.545E-03	7.080E-04	3.067E-06	7.111E-04
581759.22	4198737.35	27491.653	0.47788	4.509E-03	6.482E-06	4.515E-03	7.030E-04	6.482E-06	7.095E-04
581991.38	4199352.19	27584.84429	0.23888	4.524E-03	3.240E-06	4.527E-03	7.054E-04	3.240E-06	7.086E-04
582178.42	4199350.32	27554.12014	0.25567	4.519E-03	3.468E-06	4.523E-03	7.046E-04	3.468E-06	7.080E-04
581805.67	4199300.71	27480.68885	0.22378	4.507E-03	3.036E-06	4.510E-03	7.027E-04	3.036E-06	7.057E-04
581829.47	4198680.05	27335.6393	0.53954	4.483E-03	7.319E-06	4.491E-03	6.990E-04	7.319E-06	7.063E-04
582461.65	4198423.22	27331.11243	0.40178	4.483E-03	5.450E-06	4.488E-03	6.989E-04	5.450E-06	7.043E-04
581659.72	4198931.03	27358.39418	0.32679	4.487E-03	4.433E-06	4.492E-03	6.996E-04	4.433E-06	7.040E-04
582442.63	4198423.22	27313.84881	0.39569	4.480E-03	5.368E-06	4.485E-03	6.984E-04	5.368E-06	7.038E-04
582194.75	4199350.32	27277.58083	0.25582	4.474E-03	3.470E-06	4.477E-03	6.975E-04	3.470E-06	7.010E-04
582114.69	4198497.14	27208.61317	0.39827	4.463E-03	5.403E-06	4.468E-03	6.957E-04	5.403E-06	7.011E-04
582410.24	4198423.34	27183.27938	0.38632	4.458E-03	5.240E-06	4.464E-03	6.951E-04	5.240E-06	7.003E-04
581852.15	4199323.71	27181.80599	0.22416	4.458E-03	3.041E-06	4.461E-03	6.950E-04	3.041E-06	6.981E-04
582054.31	4199358.04	27149.69672	0.24194	4.453E-03	3.282E-06	4.456E-03	6.942E-04	3.282E-06	6.975E-04
582024.55	4199357.06	27118.1749	0.23929	4.448E-03	3.246E-06	4.451E-03	6.934E-04	3.246E-06	6.967E-04
582452.43	4199303.76	27061.08305	0.28802	4.438E-03	3.907E-06	4.442E-03	6.920E-04	3.907E-06	6.959E-04
582387.8	4198423.34	27004.02435	0.37907	4.429E-03	5.142E-06	4.434E-03	6.905E-04	5.142E-06	6.956E-04
582211.08	4199350.32	26977.24456	0.25584	4.425E-03	3.470E-06	4.428E-03	6.898E-04	3.470E-06	6.933E-04
581964.06	4199353.16	26922.25922	0.23305	4.416E-03	3.161E-06	4.419E-03	6.884E-04	3.161E-06	6.916E-04
581648.99	4199012.17	26813.52532	0.28055	4.398E-03	3.806E-06	4.402E-03	6.856E-04	3.806E-06	6.894E-04
581735.95	4199254.71	26821.51218	0.22556	4.399E-03	3.060E-06	4.402E-03	6.858E-04	3.060E-06	6.889E-04
582220.59	4199350.24	26805.1611	0.25586	4.396E-03	3.471E-06	4.400E-03	6.854E-04	3.471E-06	6.889E-04
582368.4	4198421.82	26636.78707	0.36961	4.369E-03	5.014E-06	4.374E-03	6.811E-04	5.014E-06	6.861E-04
581794.05	4199300.71	26444.41245	0.21873	4.337E-03	2.967E-06	4.340E-03	6.762E-04	2.967E-06	6.792E-04
581759.19	4199277.71	26410.69655	0.22019	4.332E-03	2.987E-06	4.335E-03	6.753E-04	2.987E-06	6.783E-04
581840.53	4199323.71	26387.93193	0.22038	4.328E-03	2.989E-06	4.331E-03	6.747E-04	2.989E-06	6.777E-04
582247.01	4199350.24	26265.728	0.25551	4.308E-03	3.466E-06	4.311E-03	6.716E-04	3.466E-06	6.751E-04
582334.67	4199335.88	26258.17151	0.26597	4.307E-03	3.608E-06	4.310E-03	6.714E-04	3.608E-06	6.750E-04
582008.23	4198546.19	26160.51404	0.42241	4.291E-03	5.730E-06	4.296E-03	6.689E-04	5.730E-06	6.747E-04
582302.6	4198427.94	26148.40082	0.3564	4.289E-03	4.835E-06	4.293E-03	6.686E-04	4.835E-06	6.735E-04
581664.21	4199153.08	26019.12089	0.23663	4.267E-03	3.210E-06	4.271E-03	6.653E-04	3.210E-06	6.685E-04
581703.93	4199225.78	25998.61502	0.22595	4.264E-03	3.065E-06	4.267E-03	6.648E-04	3.065E-06	6.679E-04
582275.59	4198430.61	25777.85329	0.35038	4.228E-03	4.753E-06	4.233E-03	6.591E-04	4.753E-06	6.639E-04
582171.58	4198461.58	25608.02668	0.36024	4.200E-03	4.887E-06	4.205E-03	6.548E-04	4.887E-06	6.597E-04
581828.91	4199323.71	25577.75663	0.21667	4.195E-03	2.939E-06	4.198E-03	6.540E-04	2.939E-06	6.570E-04
582461.65	4198402.29	25450.8646	0.36229	4.174E-03	4.914E-06	4.179E-03	6.508E-04	4.914E-06	6.557E-04
582129.43	4199367.65	25483.41828	0.23889	4.180E-03	3.241E-06	4.183E-03	6.516E-04	3.241E-06	6.549E-04
582492.98	4199306.03	25452.896	0.27933	4.175E-03	3.789E-06	4.178E-03	6.508E-04	3.789E-06	6.546E-04
581927.71	4199356.58	25430.88263	0.22116	4.171E-03	3.000E-06	4.174E-03	6.503E-04	3.000E-06	6.533E-04
582439.21	4198402.29	25372.11392	0.35633	4.161E-03	4.834E-06	4.166E-03	6.488E-04	4.834E-06	6.536E-04
581782.43	4199300.71	25422.49502	0.21359	4.170E-03	2.897E-06	4.172E-03	6.501E-04	2.897E-06	6.530E-04
582145.76	4199367.65	25344.17496	0.2395	4.157E-03	3.249E-06	4.160E-03	6.481E-04	3.249E-06	6.513E-04
581802.28	4198687.17	25094.80575	0.48992	4.116E-03	6.646E-06	4.122E-03	6.417E-04	6.646E-06	6.483E-04
582162.09	4199367.65	25173.77271	0.23995	4.129E-03	3.255E-06	4.132E-03	6.437E-04	3.255E-06	6.470E-04
581747.57	4199277.71	25170.64743	0.21435	4.128E-03	2.908E-06	4.131E-03	6.436E-04	2.908E-06	6.465E-04
582178.42	4199367.65	24975.32966	0.24025	4.096E-03	3.259E-06	4.099E-03	6.386E-04	3.259E-06	6.419E-04
582355.11	4199342.37	24902.64811	0.2584	4.084E-03	3.505E-06	4.088E-03	6.368E-04	3.505E-06	6.403E-04
582371.01	4199339.45	24884.21339	0.26002	4.081E-03	3.527E-06	4.085E-03	6.363E-04	3.527E-06	6.398E-04
582194.75	4199367.65	24752.1839	0.24042	4.060E-03	3.261E-06	4.063E-03	6.329E-04	3.261E-06	6.362E-04
581817.29	4199323.71	24760.76455	0.21289	4.061E-03	2.888E-06	4.064E-03	6.331E-04	2.888E-06	6.360E-04
582341.9	4198405.18	24605.86036	0.33714	4.036E-03	4.573E-06	4.040E-03	6.292E-04	4.573E-06	6.338E-04
582412.14	4198395.57	24601.79417	0.33778	4.035E-03	4.582E-06	4.040E-03	6.291E-04	4.582E-06	6.337E-04
582237.74	4198429.85	24560.22508	0.33533	4.028E-03	4.549E-06	4.033E-03	6.280E-04	4.549E-06	6.326E-04
581665.08	4199176.09	24551.78381	0.22449	4.027E-03	3.045E-06	4.030E-03	6.278E-04	3.045E-06	6.308E-04
581733.65	4198739.29	24446.62044	0.40952	4.010E-03	5.555E-06	4.015E-03	6.251E-04	5.555E-06	6.307E-04
582211.08	4199367.65	24507.92338	0.24045	4.020E-03	3.262E-06	4.023E-03	6.267E-04	3.262E-06	6.299E-04
581680.26	4198811.95	24382.04248	0.34744	3.999E-03	4.713E-06	4.004E-03	6.235E-04	4.713E-06	6.282E-04

582389.7	4198395.57	24383.72661	0.33134	3.999E-03	4.495E-06	4.004E-03	6.235E-04	4.495E-06	6.280E-04
582073.31	4198496.17	24364.10426	0.36676	3.996E-03	4.975E-06	4.001E-03	6.230E-04	4.975E-06	6.280E-04
581770.81	4199300.71	24411.79872	0.20861	4.004E-03	2.830E-06	4.007E-03	6.242E-04	2.830E-06	6.270E-04
581704.54	4198770.84	24311.86016	0.37473	3.987E-03	5.083E-06	3.992E-03	6.217E-04	5.083E-06	6.267E-04
581998.94	4199374.63	24164.67862	0.22092	3.963E-03	2.997E-06	3.966E-03	6.179E-04	2.997E-06	6.209E-04
581928.3	4198584.24	23975.16055	0.42537	3.932E-03	5.770E-06	3.938E-03	6.131E-04	5.770E-06	6.188E-04
582370.3	4198394.05	24009.88346	0.32589	3.938E-03	4.421E-06	3.942E-03	6.139E-04	4.421E-06	6.184E-04
581805.67	4199323.71	23980.58909	0.20805	3.933E-03	2.822E-06	3.936E-03	6.132E-04	2.822E-06	6.160E-04
581735.95	4199277.71	23969.73934	0.20867	3.931E-03	2.831E-06	3.934E-03	6.129E-04	2.831E-06	6.157E-04
582411.2	4199341.07	23719.49572	0.25504	3.890E-03	3.460E-06	3.894E-03	6.065E-04	3.460E-06	6.100E-04
582275.98	4198410.06	23662.5836	0.33011	3.881E-03	4.478E-06	3.885E-03	6.051E-04	4.478E-06	6.095E-04
582108.71	4199381.95	23631.10785	0.22614	3.876E-03	3.068E-06	3.879E-03	6.043E-04	3.068E-06	6.073E-04
582309.45	4198401.31	23576.64835	0.33096	3.867E-03	4.489E-06	3.871E-03	6.029E-04	4.489E-06	6.074E-04
581852.15	4199346.71	23614.95502	0.20785	3.873E-03	2.819E-06	3.876E-03	6.038E-04	2.819E-06	6.067E-04
582049.68	4199381.95	23607.26315	0.22146	3.872E-03	3.004E-06	3.875E-03	6.036E-04	3.004E-06	6.066E-04
581638.03	4198949.14	23554.46771	0.27954	3.863E-03	3.792E-06	3.867E-03	6.023E-04	3.792E-06	6.061E-04
581902.98	4198598.62	23470.94308	0.42559	3.849E-03	5.773E-06	3.855E-03	6.002E-04	5.773E-06	6.059E-04
581967.72	4199375.6	23556.81063	0.21517	3.864E-03	2.919E-06	3.866E-03	6.024E-04	2.919E-06	6.053E-04
582079.43	4199382.92	23553.28009	0.2234	3.863E-03	3.030E-06	3.866E-03	6.023E-04	3.030E-06	6.053E-04
581640.56	4198931.24	23495.48751	0.28856	3.854E-03	3.914E-06	3.857E-03	6.008E-04	3.914E-06	6.047E-04
582454.43	4198378.71	23479.04816	0.32268	3.851E-03	4.377E-06	3.855E-03	6.004E-04	4.377E-06	6.047E-04
582212.64	4198426.8	23375.41698	0.32012	3.834E-03	4.342E-06	3.838E-03	5.977E-04	4.342E-06	6.021E-04
581759.19	4199300.71	23423.27217	0.20354	3.842E-03	2.761E-06	3.844E-03	5.989E-04	2.761E-06	6.017E-04
582150.44	4198450.77	23353.79795	0.33013	3.830E-03	4.478E-06	3.835E-03	5.972E-04	4.478E-06	6.016E-04
581777.03	4198693.65	23302.61588	0.4396	3.822E-03	5.963E-06	3.828E-03	5.959E-04	5.963E-06	6.018E-04
581704.31	4199251.08	23396.5913	0.20919	3.837E-03	2.838E-06	3.840E-03	5.983E-04	2.838E-06	6.011E-04
582431.98	4198378.71	23341.78801	0.31721	3.828E-03	4.303E-06	3.833E-03	5.969E-04	4.303E-06	6.012E-04
582429.05	4199342.04	23190.076	0.25239	3.803E-03	3.424E-06	3.807E-03	5.930E-04	3.424E-06	5.964E-04
581794.05	4199323.71	23210.01849	0.20297	3.807E-03	2.753E-06	3.809E-03	5.935E-04	2.753E-06	5.962E-04
582414.42	4198378.08	23147.08998	0.31182	3.796E-03	4.230E-06	3.801E-03	5.919E-04	4.230E-06	5.961E-04
581667.25	4199199.31	23155.28137	0.21432	3.798E-03	2.907E-06	3.801E-03	5.921E-04	2.907E-06	5.950E-04
582449.21	4199339.45	22992.64893	0.25258	3.771E-03	3.426E-06	3.774E-03	5.879E-04	3.426E-06	5.914E-04
581853.1	4198633.43	22909.36648	0.45357	3.757E-03	6.153E-06	3.764E-03	5.858E-04	6.153E-06	5.920E-04
581939.42	4199375.6	22993.45885	0.20982	3.771E-03	2.846E-06	3.774E-03	5.880E-04	2.846E-06	5.908E-04
581840.53	4199346.71	22986.29448	0.20459	3.770E-03	2.775E-06	3.773E-03	5.878E-04	2.775E-06	5.905E-04
582391.98	4198378.08	22914.81572	0.30587	3.758E-03	4.149E-06	3.762E-03	5.859E-04	4.149E-06	5.901E-04
581630.7	4199042.67	22931.14268	0.24346	3.761E-03	3.303E-06	3.764E-03	5.864E-04	3.303E-06	5.897E-04
581975.03	4198542.11	22667.23382	0.38239	3.718E-03	5.187E-06	3.723E-03	5.796E-04	5.187E-06	5.848E-04
581818.14	4198656.74	22522.82489	0.44927	3.694E-03	6.094E-06	3.700E-03	5.759E-04	6.094E-06	5.820E-04
582372.58	4198376.56	22543.95405	0.30346	3.697E-03	4.116E-06	3.702E-03	5.765E-04	4.116E-06	5.806E-04
581627.99	4199015.14	22552.89966	0.24776	3.699E-03	3.361E-06	3.702E-03	5.767E-04	3.361E-06	5.800E-04
582238.12	4198409.3	22507.35406	0.30173	3.691E-03	4.093E-06	3.696E-03	5.755E-04	4.093E-06	5.796E-04
581654.68	4198847.89	22455.72433	0.31351	3.683E-03	4.253E-06	3.687E-03	5.742E-04	4.253E-06	5.785E-04
582050.35	4198492.94	22438.08641	0.34501	3.680E-03	4.680E-06	3.685E-03	5.737E-04	4.680E-06	5.784E-04
581747.57	4199300.71	22455.39454	0.19853	3.683E-03	2.693E-06	3.686E-03	5.742E-04	2.693E-06	5.769E-04
581782.43	4199323.71	22437.30831	0.19805	3.680E-03	2.687E-06	3.683E-03	5.737E-04	2.687E-06	5.764E-04
581638.88	4198905.97	22359.75381	0.29027	3.667E-03	3.938E-06	3.671E-03	5.717E-04	3.938E-06	5.757E-04
581828.91	4199346.71	22366.9348	0.20093	3.668E-03	2.726E-06	3.671E-03	5.719E-04	2.726E-06	5.747E-04
581630.57	4199086.24	22352.24137	0.22961	3.666E-03	3.115E-06	3.669E-03	5.716E-04	3.115E-06	5.747E-04
581640.35	4198894.39	22200.20309	0.29258	3.641E-03	3.969E-06	3.645E-03	5.677E-04	3.969E-06	5.716E-04
581914.54	4199376.58	22199.90404	0.20315	3.641E-03	2.756E-06	3.644E-03	5.677E-04	2.756E-06	5.704E-04
582176.5	4198427.94	22104.66113	0.30658	3.625E-03	4.159E-06	3.630E-03	5.652E-04	4.159E-06	5.694E-04
581754.69	4198698.83	21850.13738	0.39521	3.584E-03	5.361E-06	3.589E-03	5.587E-04	5.361E-06	5.641E-04
582489.41	4199341.72	21823.98029	0.24564	3.579E-03	3.332E-06	3.583E-03	5.580E-04	3.332E-06	5.614E-04
582343.19	4198373.16	21771.69996	0.30066	3.571E-03	4.078E-06	3.575E-03	5.567E-04	4.078E-06	5.608E-04
581710.69	4198737.81	21744.37999	0.35419	3.566E-03	4.805E-06	3.571E-03	5.560E-04	4.805E-06	5.608E-04
581817.29	4199346.71	21737.14848	0.19726	3.565E-03	2.676E-06	3.568E-03	5.558E-04	2.676E-06	5.585E-04
582303.74	4198381.53	21675.13757	0.30157	3.555E-03	4.091E-06	3.559E-03	5.542E-04	4.091E-06	5.583E-04
581770.81	4199323.71	21659.93707	0.19346	3.552E-03	2.624E-06	3.555E-03	5.539E-04	2.624E-06	5.565E-04
582439.55	4198354.41	21550.53036	0.2861	3.535E-03	3.881E-06	3.538E-03	5.511E-04	3.881E-06	5.549E-04
581627.51	4198940.92	21552.82703	0.26525	3.535E-03	3.598E-06	3.538E-03	5.511E-04	3.598E-06	5.547E-04
581735.95	4199300.71	21511.13528	0.19359	3.528E-03	2.626E-06	3.531E-03	5.500E-04	2.626E-06	5.527E-04
582213.02	4198406.26	21406.51071	0.28841	3.511E-03	3.912E-06	3.515E-03	5.474E-04	3.912E-06	5.513E-04
582115.06	4198448.1	21339.65062	0.30866	3.500E-03	4.187E-06	3.504E-03	5.457E-04	4.187E-06	5.498E-04
581805.67	4199346.71	21152.35432	0.19289	3.469E-03	2.617E-06	3.472E-03	5.409E-04	2.617E-06	5.435E-04
581678.64	4198770.19	21005.99826	0.31739	3.445E-03	4.305E-06	3.450E-03	5.371E-04	4.305E-06	5.414E-04
581655.97	4198813.9	20995.25707	0.2984	3.443E-03	4.048E-06	3.447E-03	5.369E-04	4.048E-06	5.409E-04
581665.91	4199228.58	20892.87732	0.19787	3.427E-03	2.684E-06	3.429E-03	5.342E-04	2.684E-06	5.369E-04
581759.19	4199323.71	20888.70944	0.18897	3.426E-03	2.563E-06	3.429E-03	5.341E-04	2.563E-06	5.367E-04
582359.59	4199378.4	20773.82113	0.22723	3.407E-03	3.082E-06	3.410E-03	5.312E-04	3.082E-06	5.343E-04
581906.89	4198572.18	20525.35896	0.37588	3.366E-03	5.099E-06	3.371E-03	5.248E-04	5.099E-06	5.299E-04
581794.05	4199346.71	20568.93272	0.18789	3.374E-03	2.549E-06	3.376E-03	5.260E-04	2.549E-06	5.285E-04
582018.02	4198494.88	20504.89666	0.3279	3.363E-03	4.448E-06	3.367E-03	5.243E-04	4.448E-06	5.288E-04
581627.75	4199139.85	20552.55399	0.20728	3.371E-03	2.812E-06	3.374E-03	5.255E-04	2.812E-06	5.283E-04
582377.74	4199378.12	20494.67567	0.22632	3.361E-03	3.070E-06	3.364E-03	5.241E-04	3.070E-06	5.271E-04
582155.58	4198419.19	20418.77275	0.28515	3.349E-03	3.868E-06	3.353E-03	5.221E-04	3.868E-06	5.260E-04
582304.77	4199390.95	20379.74478	0.22013	3.342E-03	2.986E-06	3.345E-03	5.211E-04	2.986E-06	5.241E-04
582305.65	4198364.42	20328.98433	0.28585	3.334E-03	3.878E-06	3.338E-03	5.198E-04	3.878E-06	5.237E-04
582176.88	4198407.4	20213.16308	0.27689	3.315E-03	3.756E-06	3.319E-03	5.169E-04	3.756E-06	5.206E-04
581747.57	4199323.71	20123.69397	0.18469	3.301E-03	2.505E-06	3.303E-03	5.146E-04	2.505E-06	5.171E-04
581632.09	4199169.14	20065.26686	0.19958	3.291E-03	2.707E-06	3.294E-03	5.131E-04	2.707E-06	5.158E-04
581623.51	4198904.5	20034.37685	0.26492	3.286E-03	3.594E-06	3.289E-03	5.123E-04	3.594E-06	5.159E-04
582404.69	4199378.4	20016.40811	0.22423	3.283E-03	3.042E-06	3.286E-03	5.118E-04	3.042E-06	5.149E-04
582279.78	4198367.46	19983.79714	0.2763	3.278E-03	3.748E-06	3.281E-03	5.110E-04	3.748E-06	5.147E-04
581927.62	4198551.45	19916.09705	0.35803	3.266E-03	4.857E-06	3.271E-03	5.093E-04	4.857E-06	5.141E-04
581782.43	4199346.71	19968.79076	0.1833	3.275E-03	2.486E-06	3.278E-03	5.106E-04	2.486E-06	5.131E-04
582093.03	4198444.77	19907.53506	0.29371	3.265E-03	3.984E-06	3.269E-03	5.090E-04	3.984E-06	5.130E-04
581693.42	4199278.38	19932.58716	0.18725	3.269E-03	2.540E-06	3.272E-03	5.097E-04	2.540E-06	5.122E-04
582341.25	4198348.91	19843.45466	0.27737	3.255E-03	3.763E-06	3.258E-03	5.074E-04	3.763E-06	5.112E-04
581623.93	4198894.39	19825.86122	0.26518	3.252E-03	3.597E-06	3.255E-03	5.070E-04	3.597E-06	5.106E-04
581730.72	4198697.21	19668.54018	0.34783	3.226E-03	4.718E-06	3.231E-03	5.029E-04	4.718E-06	5.076E-04
582286	4199401.62	19622.74419	0.21305	3.218E-03	2.890E-06	3.221E-03	5.018E-04	2.890E-06	5.046E-04
581614.03	4198931.24	19373.36625	0.24886	3.177E-03	3.376E-06	3.181E-03	4.954E-04	3.376E-06	4.988E-04
581611.72	4198948.08	19368.60528	0.24274	3.177E-03	3.293E-06	3.180E-03	4.953E-04	3.293E-06	4.986E-04
581735.95	4199323.71	19367.57883	0.18059	3.176E-03	2.450E-06	3.179E-03	4.952E-04	2.450E-06	4.977E-04
581770.81	4199346.71	19347.98973	0.17957	3.173E-03	2.436E-06	3.176E-03	4.947E-04	2.436E-06	4.972E-04
581805.51	4198636.99	19223.4843	0.38683	3.153E-03	5.247E-06	3.158E-03	4.916E-04	5.247E-06	4.968E-04
581838.53	4198611.74	19206.57507	0.38271	3.150E-03	5.191E-06	3.155E-03	4.911E-04	5.191E-06	4.963E-04
582241.93	4198369.36	19156.37575	0.26594	3.142E-03	3.607E-06	3.145E-03	4.898E-04	3.607E-06	4.934E-04
582230.87	4199413.6	19174.66055	0.2058	3.145E-03	2.792E-06	3.148E-03	4.903E-04	2.792E-06	4.931E-04
581629.75	4198848.22	19135.7941	0.26879	3.138E-03	3.646E-06	3.142E-03	4.893E-04	3.646E-06	4.930E-04
581605.45	4198996.4	19038.61311	0.22396	3.123E-03	3.038E-06	3.126E-03	4.868E-04	3.038E-06	4.899E-04
581784.47	4198649.62	18932.74619	0.3775	3.105E-03	5.121E-06	3.110E-03	4.841E-04	5.121E-06	4.892E-04
581662.26	4199251.83	19006.565	0.18417	3.117E-03	2.498E-06	3.120E-03	4.860E-04	2.498E-06	4.885E-04
581682.2	4198736.52	18943.29599	0.29886	3.107E-03	4.054E-06	3.111E-03	4.844E-04	4.054E-06	4.884E-04
582304.89	4198344.63	18794.26375	0.26658	3.082E-03	3.616E-06	3.086E-03	4.806E-04	3.616E-06	4.842E-04
581608.87	4199106.86	18786.78857	0.20086	3.081E-03	2.725E-06	3.084E-03	4.804E-04	2.725E-06	4.831E-04
581759.19	4199346.71	18731.8388	0.17583	3.072E-03	2.385E-06	3.075E-03	4.790E-04	2.385E-06	4.814E-04
581655.65	4198771.81	18682.85702	0.27747	3.064E-03	3.764E-06	3.068E-03	4.777E-04	3.764E-06	4.815E-04
582155.96	4198398.65	18690.36902	0.25848	3.065E-03	3.506E-06	3.069E-03	4.779E-04	3.506E-06	4.814E-04
581631.23	4199198.22	18710.52641	0.18812	3.069E-03	2.552E-06	3.071E-03	4.784E-04	2.552E-06	4.810E-04
581931.22	4198535.53	18589.11083	0.33474	3.049E-03	4.541E-06	3.053E-03	4.753E-04	4.541E-06	4.799E-04
581602.71	4199051.6	18612.52681	0.20847	3.053E-03	2.828E-06	3.055E-03	4.759E-04	2.828E-06	4.788E-04
582110.31	4198418.43	18419.15678	0.26689	3.021E-03	3.620E-06	3.025E-03	4.710E-04	3.620E-06	4.746E-04
582313.18	4199411.98	18351.75635	0.20512	3.010E-03	2.782E-06	3.013E-03	4.693E-04	2.782E-06	4.720E-04
581985.05	4198493.91	18307.76095	0.30646	3.003E-03	4.157E-06	3.007E-03	4.681E-04	4.157E-06	4.723E-04
582219.1	4198366.32	18265.06148	0.2559	2.996E-03	3.471E-06	2.999E-03	4.670E-04	3.471E-06	4.705E-04
581631.69	4198813.57	18163.82893	0.25852	2.979E-03	3.507E-06	2.983E-03	4.645E-04	3.507E-06	4.680E-04
581610.61	4199148.09	18118.74912	0.18996	2.972E-03	2.577E-06	2.974E-03	4.633E-04	2.577E-06	4.659E-04
581747.57	4199346.71	18119.20387	0.1722	2.972E-03	2.336E-06	2.974E-03	4.633E-04	2.336E-06	4.656E-04
582271.79	4198345.01	18079.78368	0.25606	2.965E-03	3.473E-06	2.969E-03	4.623E-04	3.473E-06	4.658E-04
581597.22	4199024.52	18032.12274	0.20842	2.957E-03	2.827E-06	2.960E-03	4.611E-04	2.827E-06	4.639E-04
581758.25	4198657.39	17967.92031	0.34615	2.947E-03	4.696E-06	2.952E-03	4.594E-04	4.696E-06	4.641E-04
581706.22	4198697.21	17907.79234	0.30567	2.937E-03	4.146E-06	2.941E-03	4.579E-04	4.146E-06	4.621E-04
582093.03	4198419.56	17744.94773	0.26221	2.910E-03	3.557E-06	2.914E-03	4.537E-04	3.557E-06	4.573E-04
582242.31	4198348.82	17612.04509	0.24941	2.889E-03	3.383E-06	2.892E-03	4.503E-04	3.383E-06	4.537E-04
581990.78	4199433.08	17588.32599	0.18012	2.885E-03	2.443E-06	2.887E-03	4.497E-04	2.443E-06	4.522E-04
582370.86	4199412.78	17576.94095	0.20215	2.883E-03	2.742E-06	2.886E-03	4.494E-04	2.742E-06	4.522E-04
582277.27	4199426.54	17576.1917	0.1968	2.883E-03	2.670E-06	2.885E-03	4.494E-04	2.670E-06	4.521E-04
582049.06	4198442.83	17539.22304	0.27076	2.877E-03	3.673E-06	2.880E-03	4.485E-04	3.673E-06	4.522E-04

581735.95	4199346.71	17509.67615	0.16873	2.872E-03	2.289E-06	2.874E-03	4.477E-04	2.289E-06	4.500E-04
582016.89	4199439.91	17264.21766	0.17923	2.832E-03	2.431E-06	2.834E-03	4.415E-04	2.431E-06	4.439E-04
582302.5	4199427.19	17252.11046	0.19575	2.830E-03	2.655E-06	2.832E-03	4.411E-04	2.655E-06	4.438E-04
582179.16	4198368.98	17225.71323	0.24491	2.825E-03	3.322E-06	2.829E-03	4.405E-04	3.322E-06	4.438E-04
581965.89	4199433.32	17246.72079	0.17669	2.829E-03	2.397E-06	2.831E-03	4.410E-04	2.397E-06	4.434E-04
581594.87	4198942.19	17221.36751	0.22355	2.824E-03	3.032E-06	2.828E-03	4.404E-04	3.032E-06	4.434E-04
581606.01	4199162.99	17222.5655	0.18185	2.825E-03	2.467E-06	2.827E-03	4.404E-04	2.467E-06	4.429E-04
582384.06	4199417.18	17086.64056	0.19867	2.802E-03	2.695E-06	2.805E-03	4.369E-04	2.695E-06	4.396E-04
581660.18	4198735.22	17048.80682	0.26458	2.796E-03	3.589E-06	2.800E-03	4.359E-04	3.589E-06	4.395E-04
581590.71	4199070.45	17048.40574	0.19303	2.796E-03	2.618E-06	2.799E-03	4.359E-04	2.618E-06	4.386E-04
582322.57	4199428.8	16909.65265	0.19411	2.773E-03	2.633E-06	2.776E-03	4.324E-04	2.633E-06	4.350E-04
581953.69	4198499.08	16862.16778	0.29578	2.766E-03	4.012E-06	2.770E-03	4.312E-04	4.012E-06	4.352E-04
581942.7	4199433.32	16898.64052	0.17333	2.772E-03	2.351E-06	2.774E-03	4.321E-04	2.351E-06	4.345E-04
581609.03	4198845.63	16840.61798	0.23849	2.762E-03	3.235E-06	2.765E-03	4.306E-04	3.235E-06	4.339E-04
581594.45	4198915.03	16803.34415	0.2247	2.756E-03	3.048E-06	2.759E-03	4.297E-04	3.048E-06	4.327E-04
581829.15	4198591.35	16752.00159	0.337	2.748E-03	4.571E-06	2.752E-03	4.284E-04	4.571E-06	4.329E-04
581884.95	4198549.05	16759.14472	0.31932	2.749E-03	4.332E-06	2.753E-03	4.285E-04	4.332E-06	4.329E-04
581730.72	4198661.99	16758.61181	0.30884	2.749E-03	4.189E-06	2.753E-03	4.285E-04	4.189E-06	4.327E-04
581905.99	4198532.52	16715.5062	0.31017	2.742E-03	4.207E-06	2.746E-03	4.274E-04	4.207E-06	4.316E-04
581596.9	4198895.6	16735.56444	0.22747	2.745E-03	3.086E-06	2.748E-03	4.279E-04	3.086E-06	4.310E-04
582404.14	4199419.38	16686.42311	0.19614	2.737E-03	2.661E-06	2.739E-03	4.267E-04	2.661E-06	4.293E-04
581916.1	4199430.15	16694.11974	0.1708	2.738E-03	2.317E-06	2.740E-03	4.269E-04	2.317E-06	4.292E-04
581586.25	4198983.38	16664.82329	0.20649	2.733E-03	2.801E-06	2.736E-03	4.261E-04	2.801E-06	4.289E-04
582211.12	4198345.78	16549.45403	0.23498	2.714E-03	3.188E-06	2.717E-03	4.232E-04	3.188E-06	4.264E-04
582110.31	4198393.33	16527.8429	0.23815	2.711E-03	3.231E-06	2.714E-03	4.226E-04	3.231E-06	4.259E-04
581631.69	4198770.84	16481.25372	0.24243	2.703E-03	3.289E-06	2.706E-03	4.214E-04	3.289E-06	4.247E-04
581682.56	4198698.31	16427.225	0.27231	2.694E-03	3.694E-06	2.698E-03	4.200E-04	3.694E-06	4.237E-04
582154.06	4198368.6	16366.27759	0.23612	2.684E-03	3.203E-06	2.687E-03	4.185E-04	3.203E-06	4.217E-04
582031.28	4198438.63	16354.6208	0.25846	2.682E-03	3.506E-06	2.686E-03	4.182E-04	3.506E-06	4.217E-04
581664.65	4199301.25	16312.40505	0.16346	2.675E-03	2.217E-06	2.678E-03	4.171E-04	2.217E-06	4.193E-04
581586.87	4198928.92	16221.37297	0.21556	2.660E-03	2.924E-06	2.663E-03	4.148E-04	2.924E-06	4.177E-04
581640.77	4199270.49	16237.30096	0.16514	2.663E-03	2.240E-06	2.665E-03	4.152E-04	2.240E-06	4.174E-04
582231.7	4199451.01	16153.75374	0.18295	2.649E-03	2.482E-06	2.652E-03	4.131E-04	2.482E-06	4.155E-04
581586.65	4199115.4	16147.27897	0.18001	2.648E-03	2.442E-06	2.651E-03	4.129E-04	2.442E-06	4.153E-04
581580.08	4199018.34	16105.00873	0.19413	2.641E-03	2.633E-06	2.644E-03	4.118E-04	2.633E-06	4.144E-04
581626.45	4199249.44	16084.41265	0.16593	2.638E-03	2.251E-06	2.640E-03	4.113E-04	2.251E-06	4.135E-04
581700.8	4199341.83	16030.67436	0.15972	2.629E-03	2.167E-06	2.631E-03	4.099E-04	2.167E-06	4.121E-04
581679.22	4199322.28	16022.25276	0.16045	2.628E-03	2.177E-06	2.630E-03	4.097E-04	2.177E-06	4.119E-04
582093.35	4198394.02	15905.13119	0.23482	2.609E-03	3.185E-06	2.612E-03	4.067E-04	3.185E-06	4.099E-04
581582.03	4198942.4	15901.59699	0.20892	2.608E-03	2.834E-06	2.611E-03	4.066E-04	2.834E-06	4.094E-04
582179.54	4198348.44	15807.34006	0.22597	2.593E-03	3.065E-06	2.596E-03	4.042E-04	3.065E-06	4.073E-04
581611.48	4199225.13	15800.93743	0.16636	2.592E-03	2.257E-06	2.594E-03	4.040E-04	2.257E-06	4.063E-04
581891.95	4199435.76	15769.48939	0.16369	2.586E-03	2.220E-06	2.589E-03	4.032E-04	2.220E-06	4.055E-04
582293.45	4199449.19	15758.18994	0.1831	2.585E-03	2.484E-06	2.587E-03	4.029E-04	2.484E-06	4.054E-04
582049.06	4198417.62	15685.97108	0.24313	2.573E-03	3.298E-06	2.576E-03	4.011E-04	3.298E-06	4.044E-04
581604.17	4198816.49	15677.0206	0.22384	2.571E-03	3.036E-06	2.574E-03	4.009E-04	3.036E-06	4.039E-04
581575.97	4199041.31	15665.87574	0.1859	2.569E-03	2.522E-06	2.572E-03	4.006E-04	2.522E-06	4.031E-04
581575.97	4198998.46	15658.47083	0.19483	2.568E-03	2.643E-06	2.571E-03	4.004E-04	2.643E-06	4.030E-04
581710.08	4198661.16	15622.67369	0.27947	2.562E-03	3.791E-06	2.566E-03	3.995E-04	3.791E-06	4.033E-04
581575.97	4199058.11	15605.54398	0.18248	2.559E-03	2.475E-06	2.562E-03	3.990E-04	2.475E-06	4.015E-04
581865.1	4199431.86	15494.92148	0.16076	2.541E-03	2.181E-06	2.544E-03	3.962E-04	2.181E-06	3.984E-04
582323.21	4199451.13	15355.06984	0.18121	2.518E-03	2.458E-06	2.521E-03	3.926E-04	2.458E-06	3.951E-04
581633.64	4198736.84	15213.64998	0.23118	2.495E-03	3.136E-06	2.498E-03	3.890E-04	3.136E-06	3.922E-04
581583.02	4199152.1	15230.88051	0.16901	2.498E-03	2.293E-06	2.500E-03	3.895E-04	2.293E-06	3.918E-04
581871.43	4198537.93	15176.41386	0.29364	2.489E-03	3.983E-06	2.493E-03	3.881E-04	3.983E-06	3.920E-04
581663.29	4198696.94	15171.45812	0.2481	2.488E-03	3.365E-06	2.492E-03	3.879E-04	3.365E-06	3.913E-04
581577.4	4198913.76	15161.86689	0.20555	2.487E-03	2.788E-06	2.489E-03	3.877E-04	2.788E-06	3.905E-04
581598.24	4199210.59	15174.80439	0.16351	2.489E-03	2.218E-06	2.491E-03	3.880E-04	2.218E-06	3.902E-04
581843.87	4199431.13	15089.11011	0.15705	2.475E-03	2.130E-06	2.477E-03	3.858E-04	2.130E-06	3.880E-04
582228.4	4199467.51	15070.75285	0.17407	2.472E-03	2.361E-06	2.474E-03	3.854E-04	2.361E-06	3.877E-04
582021.28	4199469.44	15072.00358	0.164	2.472E-03	2.225E-06	2.474E-03	3.854E-04	2.225E-06	3.876E-04
582154.44	4198348.06	15020.07921	0.21682	2.463E-03	2.941E-06	2.466E-03	3.841E-04	2.941E-06	3.870E-04
581926.54	4198493.59	14995.97896	0.27336	2.460E-03	3.708E-06	2.463E-03	3.835E-04	3.708E-06	3.872E-04
581578.11	4198897.39	15017.73916	0.20618	2.463E-03	2.797E-06	2.466E-03	3.840E-04	2.797E-06	3.868E-04
582003.8	4198436.69	14954.2053	0.24527	2.453E-03	3.327E-06	2.456E-03	3.824E-04	3.327E-06	3.857E-04
581571.17	4199085.88	14978.54896	0.17415	2.457E-03	2.362E-06	2.459E-03	3.830E-04	2.362E-06	3.854E-04
581785.77	4198597.18	14925.2639	0.30076	2.448E-03	4.080E-06	2.452E-03	3.816E-04	4.080E-06	3.857E-04
581958.22	4198468.05	14877.42647	0.25907	2.440E-03	3.514E-06	2.444E-03	3.804E-04	3.514E-06	3.839E-04
582273.39	4199466.34	14823.17263	0.17429	2.431E-03	2.364E-06	2.434E-03	3.790E-04	2.364E-06	3.814E-04
581610	4198770.84	14804.91131	0.21737	2.428E-03	2.949E-06	2.431E-03	3.786E-04	2.949E-06	3.815E-04
582408.36	4199449.41	14672.3666	0.17861	2.406E-03	2.423E-06	2.409E-03	3.752E-04	2.423E-06	3.776E-04
581573.34	4199134.76	14658.83432	0.16627	2.404E-03	2.255E-06	2.406E-03	3.748E-04	2.255E-06	3.771E-04
582111.83	4198364.04	14635.58912	0.21813	2.400E-03	2.959E-06	2.403E-03	3.742E-04	2.959E-06	3.772E-04
581815.23	4198568.36	14402.7523	0.29276	2.362E-03	3.971E-06	2.366E-03	3.683E-04	3.971E-06	3.723E-04
581822.15	4199434.54	14388.21201	0.15014	2.360E-03	2.037E-06	2.362E-03	3.679E-04	2.037E-06	3.699E-04
582094.97	4198367.83	14298.92539	0.2161	2.345E-03	2.931E-06	2.348E-03	3.656E-04	2.931E-06	3.686E-04
581578.92	4198845.63	14265.20417	0.20388	2.340E-03	2.766E-06	2.342E-03	3.648E-04	2.766E-06	3.675E-04
581683.66	4198658.68	14207.65839	0.24704	2.330E-03	3.351E-06	2.334E-03	3.633E-04	3.351E-06	3.666E-04
581755.34	4198606.24	14183.18782	0.28118	2.326E-03	3.814E-06	2.330E-03	3.627E-04	3.814E-06	3.665E-04
582344.89	4199466.98	14200.16327	0.17215	2.329E-03	2.335E-06	2.331E-03	3.631E-04	2.335E-06	3.654E-04
581986.67	4198435.4	14125.27971	0.23738	2.317E-03	3.220E-06	2.320E-03	3.612E-04	3.220E-06	3.644E-04
582049.38	4198392.08	14097.17283	0.22019	2.312E-03	2.987E-06	2.315E-03	3.605E-04	2.987E-06	3.635E-04
582299.27	4199475.07	14107.58735	0.16939	2.314E-03	2.298E-06	2.316E-03	3.607E-04	2.298E-06	3.630E-04
581733.97	4198618.22	14054.88433	0.26979	2.305E-03	3.660E-06	2.309E-03	3.594E-04	3.660E-06	3.630E-04
581582.8	4198817.78	14047.91015	0.20148	2.304E-03	2.733E-06	2.307E-03	3.592E-04	2.733E-06	3.619E-04
582060.82	4199489.94	13974.30225	0.15739	2.292E-03	2.135E-06	2.294E-03	3.573E-04	2.135E-06	3.595E-04
581571.32	4199173.88	13879.04438	0.15755	2.276E-03	2.137E-06	2.278E-03	3.549E-04	2.137E-06	3.570E-04
582080.1	4199492.62	13874.6062	0.1574	2.276E-03	2.135E-06	2.278E-03	3.548E-04	2.135E-06	3.569E-04
581749.12	4199412.28	13779.83775	0.14384	2.260E-03	1.951E-06	2.262E-03	3.524E-04	1.951E-06	3.543E-04
581969.55	4199483.11	13737.59176	0.15229	2.253E-03	2.066E-06	2.255E-03	3.513E-04	2.066E-06	3.533E-04
581635.5	4198698.04	13703.4533	0.21755	2.248E-03	2.951E-06	2.250E-03	3.504E-04	2.951E-06	3.534E-04
581973.09	4198437.01	13647.17983	0.233	2.238E-03	3.161E-06	2.241E-03	3.490E-04	3.161E-06	3.521E-04
582317.71	4199480.57	13662.17398	0.16628	2.241E-03	2.256E-06	2.243E-03	3.493E-04	2.256E-06	3.516E-04
581552.66	4198997.78	13642.51494	0.17499	2.238E-03	2.374E-06	2.240E-03	3.488E-04	2.374E-06	3.512E-04
581794.09	4199436.01	13645.26691	0.14338	2.238E-03	1.945E-06	2.240E-03	3.489E-04	1.945E-06	3.509E-04
582014.45	4199492.38	13580.1753	0.15264	2.227E-03	2.071E-06	2.229E-03	3.472E-04	2.071E-06	3.493E-04
581713.9	4198622.41	13525.42979	0.25215	2.218E-03	3.420E-06	2.222E-03	3.458E-04	3.420E-06	3.493E-04
581553.34	4199081.42	13519.40338	0.16292	2.217E-03	2.210E-06	2.220E-03	3.457E-04	2.210E-06	3.479E-04
581607.09	4198735.55	13490.30638	0.20371	2.213E-03	2.763E-06	2.215E-03	3.450E-04	2.763E-06	3.477E-04
581933.43	4199480.18	13489.43146	0.14927	2.212E-03	2.025E-06	2.214E-03	3.449E-04	2.025E-06	3.470E-04
582112.21	4198343.49	13455.54731	0.19779	2.207E-03	2.683E-06	2.210E-03	3.441E-04	2.683E-06	3.467E-04
582029.66	4198393.05	13384.69996	0.21582	2.195E-03	2.928E-06	2.198E-03	3.423E-04	2.928E-06	3.452E-04
581549.91	4199059.14	13367.39506	0.16375	2.192E-03	2.221E-06	2.195E-03	3.418E-04	2.221E-06	3.440E-04
581892.27	4198491.97	13322.42711	0.25272	2.185E-03	3.428E-06	2.188E-03	3.407E-04	3.428E-06	3.441E-04
581587.34	4198772.46	13336.62976	0.19552	2.187E-03	2.652E-06	2.190E-03	3.410E-04	2.652E-06	3.437E-04
581661.92	4198659.79	13286.43879	0.2265	2.179E-03	3.072E-06	2.182E-03	3.397E-04	3.072E-06	3.428E-04
581627.64	4199322.39	13269.5734	0.14229	2.176E-03	1.930E-06	2.178E-03	3.393E-04	1.930E-06	3.412E-04
581613.44	4199302.47	13253.84091	0.14317	2.174E-03	1.942E-06	2.176E-03	3.389E-04	1.942E-06	3.408E-04
582291.5	4199492.54	13217.89862	0.16123	2.168E-03	2.187E-06	2.170E-03	3.380E-04	2.187E-06	3.402E-04
581913.91	4199480.91	13186.65869	0.1464	2.163E-03	1.986E-06	2.165E-03	3.372E-04	1.986E-06	3.392E-04
581768.95	4199434.06	13140.49498	0.13953	2.155E-03	1.893E-06	2.157E-03	3.360E-04	1.893E-06	3.379E-04
582094	4198347.14	13091.69366	0.19553	2.147E-03	2.652E-06	2.150E-03	3.348E-04	2.652E-06	3.374E-04
581597.98	4199281.04	13091.69496	0.14329	2.147E-03	1.944E-06	2.149E-03	3.348E-04	1.944E-06	3.367E-04
582010.14	4198398.35	12943.85476	0.21326	2.123E-03	2.893E-06	2.126E-03	3.310E-04	2.893E-06	3.339E-04
581771.2	4198572.25	12903.29314	0.26014	2.116E-03	3.529E-06	2.120E-03	3.299E-04	3.529E-06	3.335E-04
581553.58	4199149.28	12943.90994	0.15203	2.123E-03	2.062E-06	2.125E-03	3.310E-04	2.062E-06	3.330E-04
581559.82	4198843.68	12921.24478	0.18448	2.119E-03	2.502E-06	2.122E-03	3.304E-04	2.502E-06	3.329E-04
581635.02	4199340.84	12924.8094	0.13902	2.120E-03	1.886E-06	2.122E-03	3.305E-04	1.886E-06	3.324E-04
581889.26	4199479.93	12896.89384	0.14343	2.115E-03	1.946E-06	2.117E-03	3.298E-04	1.946E-06	3.317E-04
581752.75	4198582.93	12832.35033	0.25434	2.105E-03	3.450E-06	2.108E-03	3.281E-04	3.450E-06	3.316E-04
581803.9	4198547.65	12770.87292	0.26111	2.095E-03	3.542E-06	2.098E-03	3.266E-04	3.542E-06	3.301E-04
581670.14	4199379.19	12797.79701	0.13698	2.099E-03	1.858E-06	2.101E-03	3.272E-04	1.858E-06	3.291E-04
582340.36	4199494.48	12782.64246	0.15921	2.096E-03	2.160E-06	2.099E-03	3.269E-04	2.160E-06	3.290E-04
582051	4198365.89	12705.73553	0.19966	2.084E-03	2.708E-06	2.087E-03	3.249E-04	2.708E-06	3.276E-04
581539.29	4199025.89	12660.58901	0.16236	2.076E-03	2.202E-06	2.079E-03	3.237E-04	2.202E-06	3.259E-04
581865.1	4199478.47	12626.60698	0.14057	2.071E-03	1.907E-06	2.073E-03	3.229E-04	1.907E-06	3.248E-04
581581.7	4199266.07	12582.26201	0.14076	2.064E-03	1.909E-06	2.066E-03	3.217E-04	1.909E-06	3.236E-04
581747.72	4199434.79	12576.06202	0.13556	2.063E-03	1.839E-06	2.064E-03	3.216E-04	1.839E-06	3.234E-04
581571.5	4199244.58	12502.8194	0.14144	2.051E-03	1.919E-06	2.053E-03	3.197E-04	1.919E-06	3.216E-04
582270.47	4199510.01	12484.7376	0.15378	2.048E-03	2.086E-06	2.050E-03	3.192E-04	2.086E-06	3.213E-04

581943.97	4198436.38	12448.62994	0.22033	2.042E-03	2.989E-06	2.045E-03	3.183E-04	2.989E-06	3.213E-04
581536.54	4198980.29	12445.59114	0.16576	2.041E-03	2.249E-06	2.043E-03	3.182E-04	2.249E-06	3.205E-04
581865.44	4198494.56	12400.0195	0.24092	2.034E-03	3.268E-06	2.037E-03	3.171E-04	3.268E-06	3.203E-04
581557.87	4198816.81	12406.1007	0.17907	2.035E-03	2.429E-06	2.037E-03	3.172E-04	2.429E-06	3.197E-04
581609.63	4198696.11	12347.77248	0.19397	2.025E-03	2.631E-06	2.028E-03	3.157E-04	2.631E-06	3.184E-04
581584.42	4198736.19	12262.41911	0.18444	2.011E-03	2.502E-06	2.014E-03	3.136E-04	2.502E-06	3.161E-04
581681.78	4198619.44	12241.87019	0.22112	2.008E-03	3.000E-06	2.011E-03	3.130E-04	3.000E-06	3.160E-04
581635.5	4198659.79	12197.6113	0.20221	2.001E-03	2.743E-06	2.003E-03	3.119E-04	2.743E-06	3.146E-04
581537.11	4199109.97	12185.36247	0.14938	1.999E-03	2.026E-06	2.001E-03	3.116E-04	2.026E-06	3.136E-04
581840.45	4199480.42	12161.22823	0.1361	1.995E-03	1.846E-06	1.996E-03	3.110E-04	1.846E-06	3.128E-04
581993.01	4198394.15	12128.47861	0.20403	1.989E-03	2.768E-06	1.992E-03	3.101E-04	2.768E-06	3.129E-04
581723.32	4199433.08	12052.73128	0.13147	1.977E-03	1.783E-06	1.979E-03	3.082E-04	1.783E-06	3.100E-04
581645.38	4199376.64	12012.04644	0.13117	1.970E-03	1.779E-06	1.972E-03	3.072E-04	1.779E-06	3.089E-04
581532.63	4199094.65	11992.80349	0.14901	1.967E-03	2.021E-06	1.969E-03	3.067E-04	2.021E-06	3.087E-04
581728.47	4198580.67	11955.47425	0.2335	1.961E-03	3.167E-06	1.964E-03	3.057E-04	3.167E-06	3.089E-04
581969.84	4199516.18	11954.95367	0.1387	1.961E-03	1.881E-06	1.963E-03	3.057E-04	1.881E-06	3.076E-04
581554.57	4199222.66	11941.90904	0.1388	1.959E-03	1.883E-06	1.960E-03	3.054E-04	1.883E-06	3.072E-04
581929.72	4198435.92	11908.25484	0.2145	1.953E-03	2.910E-06	1.956E-03	3.045E-04	2.910E-06	3.074E-04
581528.66	4199048.17	11930.59387	0.15235	1.957E-03	2.067E-06	1.959E-03	3.051E-04	2.067E-06	3.071E-04
582040.41	4199527	11910.8065	0.1403	1.954E-03	1.903E-06	1.955E-03	3.046E-04	1.903E-06	3.065E-04
582018.47	4198369.64	11835.76675	0.19416	1.941E-03	2.634E-06	1.944E-03	3.026E-04	2.634E-06	3.053E-04
582290.53	4199522.31	11817.18022	0.14842	1.938E-03	2.013E-06	1.940E-03	3.022E-04	2.013E-06	3.042E-04
582065.94	4199531.2	11817.21641	0.14029	1.938E-03	1.903E-06	1.940E-03	3.022E-04	1.903E-06	3.041E-04
581561.11	4198770.19	11792.64419	0.17358	1.934E-03	2.355E-06	1.936E-03	3.015E-04	2.355E-06	3.039E-04
581818.74	4199481.4	11783.059	0.13156	1.933E-03	1.785E-06	1.934E-03	3.013E-04	1.785E-06	3.031E-04
581663.68	4198620.74	11690.89484	0.20792	1.917E-03	2.820E-06	1.920E-03	2.989E-04	2.820E-06	3.018E-04
581678.82	4199412.89	11709.17357	0.12847	1.920E-03	1.743E-06	1.922E-03	2.994E-04	1.743E-06	3.011E-04
581706.15	4198588.41	11654.35118	0.22125	1.911E-03	3.001E-06	1.914E-03	2.980E-04	3.001E-06	3.010E-04
582050.03	4198345.2	11671.19481	0.18024	1.914E-03	2.445E-06	1.917E-03	2.984E-04	2.445E-06	3.009E-04
581975.87	4198396.09	11645.4745	0.19992	1.910E-03	2.712E-06	1.913E-03	2.978E-04	2.712E-06	3.005E-04
582341.98	4199519.4	11641.97659	0.14857	1.909E-03	2.015E-06	1.911E-03	2.977E-04	2.015E-06	2.997E-04
581526	4199084.85	11631.55465	0.14667	1.908E-03	1.990E-06	1.910E-03	2.974E-04	1.990E-06	2.994E-04
582359.45	4199517.78	11602.50542	0.14875	1.903E-03	2.018E-06	1.905E-03	2.967E-04	2.018E-06	2.987E-04
581842.48	4198492.29	11496.83674	0.22785	1.886E-03	3.091E-06	1.889E-03	2.940E-04	3.091E-06	2.971E-04
581542.42	4199205.3	11525.62833	0.13639	1.890E-03	1.850E-06	1.892E-03	2.947E-04	1.850E-06	2.966E-04
581535.86	4198843.36	11512.07758	0.16451	1.888E-03	2.232E-06	1.890E-03	2.944E-04	2.232E-06	2.966E-04
581526.79	4199116.24	11501.62758	0.14318	1.886E-03	1.942E-06	1.888E-03	2.941E-04	1.942E-06	2.960E-04
582229.63	4199536.69	11484.82389	0.14307	1.884E-03	1.941E-06	1.886E-03	2.937E-04	1.941E-06	2.956E-04
582378.86	4199520.37	11375.40089	0.14711	1.866E-03	1.996E-06	1.868E-03	2.909E-04	1.996E-06	2.929E-04
582015.19	4199536.6	11335.52031	0.1349	1.859E-03	1.830E-06	1.861E-03	2.899E-04	1.830E-06	2.917E-04
581517.35	4199022.46	11294.88214	0.14862	1.852E-03	2.016E-06	1.854E-03	2.888E-04	2.016E-06	2.908E-04
581587.89	4198692.53	11282.24126	0.17651	1.850E-03	2.394E-06	1.853E-03	2.885E-04	2.394E-06	2.909E-04
582318.36	4199533.63	11195.5338	0.14351	1.836E-03	1.947E-06	1.838E-03	2.863E-04	1.947E-06	2.882E-04
581608.8	4198658.68	11132.68573	0.18181	1.826E-03	2.466E-06	1.828E-03	2.847E-04	2.466E-06	2.871E-04
581592.04	4199340.29	11148.19044	0.12584	1.828E-03	1.707E-06	1.830E-03	2.851E-04	1.707E-06	2.868E-04
581561.11	4198735.22	11112.72528	0.16697	1.823E-03	2.265E-06	1.825E-03	2.842E-04	2.265E-06	2.864E-04
582290.86	4199539.13	11120.17882	0.14185	1.824E-03	1.924E-06	1.826E-03	2.843E-04	1.924E-06	2.863E-04
581534.56	4198814.54	11102.21328	0.16141	1.821E-03	2.190E-06	1.823E-03	2.839E-04	2.190E-06	2.861E-04
581906.37	4198434.52	11063.06929	0.20482	1.814E-03	2.778E-06	1.817E-03	2.829E-04	2.778E-06	2.857E-04
581990.67	4198371.26	11051.54327	0.18737	1.813E-03	2.542E-06	1.815E-03	2.826E-04	2.542E-06	2.851E-04
581763.54	4199476.24	11068.87856	0.1245	1.815E-03	1.689E-06	1.817E-03	2.830E-04	1.689E-06	2.847E-04
581516.42	4199089.9	11049.83106	0.14123	1.812E-03	1.916E-06	1.814E-03	2.825E-04	1.916E-06	2.845E-04
581788.48	4199487.99	11008.70125	0.12448	1.806E-03	1.689E-06	1.807E-03	2.815E-04	1.689E-06	2.832E-04
582027.4	4198344.23	10982.20574	0.17328	1.801E-03	2.351E-06	1.804E-03	2.808E-04	2.351E-06	2.832E-04
581639.11	4198622.03	10967.67193	0.18978	1.799E-03	2.574E-06	1.801E-03	2.804E-04	2.574E-06	2.830E-04
581526.36	4199189.89	10849.64556	0.13177	1.779E-03	1.787E-06	1.781E-03	2.774E-04	1.787E-06	2.792E-04
581619.35	4199385.32	10852.48059	0.12204	1.780E-03	1.655E-06	1.782E-03	2.775E-04	1.655E-06	2.792E-04
581680.49	4198584.85	10808.38764	0.20107	1.773E-03	2.728E-06	1.775E-03	2.764E-04	2.728E-06	2.791E-04
582231.34	4199554.5	10767.89356	0.13644	1.766E-03	1.851E-06	1.768E-03	2.753E-04	1.851E-06	2.772E-04
581672.95	4199434.58	10757.05103	0.12119	1.764E-03	1.644E-06	1.766E-03	2.751E-04	1.644E-06	2.767E-04
582271.12	4199551.75	10724.77729	0.13737	1.759E-03	1.863E-06	1.761E-03	2.742E-04	1.863E-06	2.761E-04
581507.75	4199049.2	10719.93922	0.14098	1.758E-03	1.912E-06	1.760E-03	2.741E-04	1.912E-06	2.760E-04
581569.1	4199322.7	10664.11552	0.12294	1.749E-03	1.668E-06	1.751E-03	2.727E-04	1.668E-06	2.744E-04
581965.94	4199544.71	10652.63284	0.12809	1.747E-03	1.738E-06	1.749E-03	2.724E-04	1.738E-06	2.741E-04
581784.47	4198512.36	10615.0105	0.218	1.741E-03	2.957E-06	1.744E-03	2.714E-04	2.957E-06	2.744E-04
581973.54	4198373.2	10627.71903	0.1839	1.743E-03	2.495E-06	1.746E-03	2.718E-04	2.495E-06	2.742E-04
581509.1	4199094.3	10636.09479	0.13702	1.744E-03	1.859E-06	1.746E-03	2.720E-04	1.859E-06	2.738E-04
581754.04	4198531.78	10601.71353	0.21518	1.739E-03	2.919E-06	1.742E-03	2.711E-04	2.919E-06	2.740E-04
581505	4199000.18	10621.48977	0.14443	1.742E-03	1.959E-06	1.744E-03	2.716E-04	1.959E-06	2.736E-04
581888.62	4198435.92	10581.38581	0.19964	1.735E-03	2.708E-06	1.738E-03	2.706E-04	2.708E-06	2.733E-04
581534.24	4198774.07	10559.12363	0.15561	1.732E-03	2.111E-06	1.734E-03	2.700E-04	2.111E-06	2.721E-04
582357.19	4199545.61	10532.41954	0.13821	1.727E-03	1.875E-06	1.729E-03	2.693E-04	1.875E-06	2.712E-04
581555.82	4199303.56	10518.54655	0.12281	1.725E-03	1.666E-06	1.727E-03	2.690E-04	1.666E-06	2.706E-04
581731.06	4198542.47	10472.32113	0.20762	1.718E-03	2.816E-06	1.720E-03	2.678E-04	2.816E-06	2.706E-04
582020.89	4199558.83	10440.87175	0.12752	1.712E-03	1.730E-06	1.714E-03	2.670E-04	1.730E-06	2.687E-04
581563.67	4198697.21	10424.39959	0.16141	1.710E-03	2.190E-06	1.712E-03	2.666E-04	2.190E-06	2.687E-04
581938.61	4199545.91	10382.58355	0.12523	1.703E-03	1.699E-06	1.705E-03	2.655E-04	1.699E-06	2.672E-04
581932.29	4198397.15	10356.14158	0.18733	1.699E-03	2.541E-06	1.701E-03	2.648E-04	2.541E-06	2.674E-04
581586.79	4198658.96	10360.24106	0.1674	1.699E-03	2.271E-06	1.701E-03	2.649E-04	2.271E-06	2.672E-04
581542.29	4199280.83	10354.88437	0.12284	1.698E-03	1.666E-06	1.700E-03	2.648E-04	1.666E-06	2.664E-04
582156.91	4199570.36	10313.39748	0.12981	1.692E-03	1.761E-06	1.693E-03	2.637E-04	1.761E-06	2.655E-04
581837.31	4198465.46	10264.88105	0.20546	1.684E-03	2.787E-06	1.686E-03	2.625E-04	2.787E-06	2.653E-04
581510.3	4199163.19	10286.6369	0.12844	1.687E-03	1.742E-06	1.689E-03	2.630E-04	1.742E-06	2.648E-04
581651.51	4199433.31	10282.50551	0.1172	1.686E-03	1.590E-06	1.688E-03	2.629E-04	1.590E-06	2.645E-04
582001.54	4198343.26	10243.27722	0.16606	1.680E-03	2.253E-06	1.682E-03	2.619E-04	2.253E-06	2.642E-04
581656.57	4198584.85	10195.79467	0.18595	1.672E-03	2.522E-06	1.675E-03	2.607E-04	2.522E-06	2.632E-04
581909.48	4199543.81	10202.87026	0.12304	1.673E-03	1.669E-06	1.675E-03	2.609E-04	1.669E-06	2.626E-04
581593.37	4199379	10200.77473	0.11705	1.673E-03	1.588E-06	1.675E-03	2.608E-04	1.588E-06	2.624E-04
582342.63	4199557.58	10186.07895	0.13432	1.671E-03	1.822E-06	1.672E-03	2.605E-04	1.822E-06	2.623E-04
582398.28	4199549.49	10177.29106	0.13567	1.669E-03	1.840E-06	1.671E-03	2.602E-04	1.840E-06	2.621E-04
582292.8	4199565.67	10136.80152	0.13232	1.663E-03	1.795E-06	1.664E-03	2.592E-04	1.795E-06	2.610E-04
581612.61	4198620.09	10112.70969	0.17204	1.659E-03	2.334E-06	1.661E-03	2.586E-04	2.334E-06	2.609E-04
581536.18	4198737.16	10087.10956	0.1515	1.654E-03	2.055E-06	1.656E-03	2.579E-04	2.055E-06	2.600E-04
582188.14	4199575.73	10092.62899	0.12866	1.655E-03	1.745E-06	1.657E-03	2.581E-04	1.745E-06	2.598E-04
582168.13	4199576.71	10079.46091	0.12795	1.653E-03	1.736E-06	1.655E-03	2.577E-04	1.736E-06	2.595E-04
581495.4	4199071.83	10038.92327	0.1327	1.646E-03	1.800E-06	1.648E-03	2.567E-04	1.800E-06	2.585E-04
582215.72	4199576.22	10025.85158	0.12884	1.644E-03	1.748E-06	1.646E-03	2.564E-04	1.748E-06	2.581E-04
581886.96	4199543.51	9996.94251	0.12078	1.640E-03	1.638E-06	1.641E-03	2.556E-04	1.638E-06	2.573E-04
581869.7	4198433.35	9961.2281	0.19149	1.634E-03	2.598E-06	1.636E-03	2.547E-04	2.598E-06	2.573E-04
582205.96	4199577.93	9987.31065	0.12818	1.638E-03	1.739E-06	1.640E-03	2.554E-04	1.739E-06	2.571E-04
582229.63	4199577.44	9951.31963	0.12854	1.632E-03	1.744E-06	1.634E-03	2.545E-04	1.744E-06	2.562E-04
581526.97	4199264.49	9952.3929	0.12051	1.632E-03	1.635E-06	1.634E-03	2.545E-04	1.635E-06	2.561E-04
582317.06	4199568.58	9935.32429	0.13104	1.629E-03	1.778E-06	1.631E-03	2.540E-04	1.778E-06	2.558E-04
581508.99	4198814.22	9919.2499	0.14534	1.627E-03	1.972E-06	1.629E-03	2.536E-04	1.972E-06	2.556E-04
581723.3	4199488.56	9917.09644	0.11535	1.627E-03	1.565E-06	1.628E-03	2.536E-04	1.565E-06	2.551E-04
581704.19	4198542.47	9871.91756	0.19251	1.619E-03	2.611E-06	1.622E-03	2.524E-04	2.611E-06	2.550E-04
581935.1	4198380.57	9840.79171	0.17804	1.614E-03	2.415E-06	1.616E-03	2.516E-04	2.415E-06	2.540E-04
582136.17	4199584.27	9820.04209	0.12466	1.611E-03	1.691E-06	1.612E-03	2.511E-04	1.691E-06	2.528E-04
581773.47	4198496.17	9766.1408	0.20172	1.602E-03	2.736E-06	1.604E-03	2.497E-04	2.736E-06	2.525E-04
582378.54	4199565.34	9752.93927	0.13086	1.600E-03	1.775E-06	1.601E-03	2.494E-04	1.775E-06	2.512E-04
581635.88	4198584.85	9696.7248	0.17326	1.590E-03	2.350E-06	1.593E-03	2.479E-04	2.350E-06	2.503E-04
581514.49	4198772.13	9703.13518	0.14372	1.591E-03	1.950E-06	1.593E-03	2.481E-04	1.950E-06	2.501E-04
581495.54	4199148	9697.13604	0.12432	1.590E-03	1.686E-06	1.592E-03	2.480E-04	1.686E-06	2.496E-04
581979.88	4198342.62	9669.23415	0.16027	1.586E-03	2.174E-06	1.588E-03	2.472E-04	2.174E-06	2.494E-04
581906.37	4198397.15	9658.79695	0.17991	1.584E-03	2.440E-06	1.587E-03	2.470E-04	2.440E-06	2.494E-04
581510.88	4199240.23	9578.78843	0.11875	1.571E-03	1.611E-06	1.573E-03	2.449E-04	1.611E-06	2.465E-04
581866.24	4199549.82	9571.39189	0.1167	1.570E-03	1.583E-06	1.571E-03	2.447E-04	1.583E-06	2.463E-04
581560.37	4198661.71	9555.05082	0.15095	1.567E-03	2.048E-06	1.569E-03	2.443E-04	2.048E-06	2.464E-04
581571.44	4199377.2	9566.18447	0.11203	1.569E-03	1.520E-06	1.570E-03	2.446E-04	1.520E-06	2.461E-04
581623.94	4199436.63	9535.40063	0.11097	1.564E-03	1.505E-06	1.565E-03	2.438E-04	1.505E-06	2.453E-04
581483.06	4199051.94	9521.17192	0.12934	1.562E-03	1.755E-06	1.563E-03	2.435E-04	1.755E-06	2.452E-04
581854.75	4198430.31	9490.53423	0.18702	1.557E-03	2.537E-06	1.559E-03	2.427E-04	2.537E-06	2.452E-04
582294.09	4199585.08	9500.72941	0.12596	1.558E-03	1.709E-06	1.560E-03	2.429E-04	1.709E-06	2.446E-04
581684.37	4198542.51	9460.35326	0.18219	1.552E-03	2.471E-06	1.554E-03	2.419E-04	2.471E-06	2.444E-04
581840.41	4199545.31	9477.19645	0.1152	1.554E-03	1.563E-06	1.556E-03	2.423E-04	1.563E-06	2.439E-04
581731.38	4198512.04	9428.57836	0.19008	1.546E-03	2.578E-06	1.549E-03	2.411E-04	2.578E-06	2.437E-04
582013.09	4199584.95	9452.00188	0.11874	1.550E-03	1.611E-06	1.552E-03	2.417E-04	1.611E-06	2.433E-04
581589.33	4198617.83	9403.64396	0.15821	1.542E-03	2.146E-06	1.544E-03	2.405E-04	2.146E-06	2.426E-04
582272.41	4199590.26	9415.6221	0.12447	1.544E-03	1.688E-06	1.546E-03	2.408E-04	1.688E-06	2.424E-04
581501.69	4199226.19	9348.3003	0.11732	1.533E-03	1.591E-06	1.535E-03	2.390E-04	1.591E-06	2.406E-04

581533.12	4198697.21	9328.03872	0.14386	1.530E-03	1.951E-06	1.532E-03	2.385E-04	1.951E-06	2.405E-04
582321.27	4199588.64	9289.20293	0.12455	1.524E-03	1.690E-06	1.525E-03	2.375E-04	1.690E-06	2.392E-04
581909.64	4198382.43	9264.87346	0.17246	1.520E-03	2.339E-06	1.522E-03	2.369E-04	2.339E-06	2.392E-04
582407.66	4199576.34	9275.6588	0.12652	1.521E-03	1.716E-06	1.523E-03	2.372E-04	1.716E-06	2.389E-04
581482.73	4199126.95	9254.52956	0.12151	1.518E-03	1.648E-06	1.519E-03	2.366E-04	1.648E-06	2.383E-04
581615.19	4198583.89	9183.52197	0.1619	1.506E-03	2.196E-06	1.508E-03	2.348E-04	2.196E-06	2.370E-04
581473.81	4199020.06	9189.3544	0.12709	1.507E-03	1.724E-06	1.509E-03	2.350E-04	1.724E-06	2.367E-04
581510.93	4198738.78	9165.27804	0.13794	1.503E-03	1.871E-06	1.505E-03	2.344E-04	1.871E-06	2.362E-04
581813.99	4199546.51	9169.84431	0.1119	1.504E-03	1.518E-06	1.505E-03	2.345E-04	1.518E-06	2.360E-04
581930.19	4198362.58	9133.3556	0.16435	1.498E-03	2.229E-06	1.500E-03	2.335E-04	2.229E-06	2.358E-04
581673.46	4199486.66	9152.08437	0.10814	1.501E-03	1.467E-06	1.503E-03	2.340E-04	1.467E-06	2.355E-04
582354.27	4199590.26	9107.26083	0.12352	1.494E-03	1.676E-06	1.495E-03	2.329E-04	1.676E-06	2.346E-04
581488.27	4198814.22	9097.25428	0.13417	1.492E-03	1.820E-06	1.494E-03	2.326E-04	1.820E-06	2.344E-04
581533.96	4199338.71	9099.53484	0.10999	1.492E-03	1.492E-06	1.494E-03	2.327E-04	1.492E-06	2.342E-04
581833.73	4198431.01	9033.86364	0.18264	1.482E-03	2.478E-06	1.484E-03	2.310E-04	2.478E-06	2.335E-04
581661.09	4198543.16	9021.09241	0.17082	1.480E-03	2.317E-06	1.482E-03	2.307E-04	2.317E-06	2.330E-04
581966.24	4199590.36	9013.15045	0.11404	1.478E-03	1.547E-06	1.480E-03	2.305E-04	1.547E-06	2.320E-04
581487.39	4199204.23	8967.09467	0.11498	1.471E-03	1.560E-06	1.472E-03	2.293E-04	1.560E-06	2.309E-04
581707.43	4198510.42	8933.07128	0.17794	1.465E-03	2.414E-06	1.468E-03	2.284E-04	2.414E-06	2.308E-04
581721.79	4199518.59	8955.77717	0.10763	1.469E-03	1.460E-06	1.470E-03	2.290E-04	1.460E-06	2.305E-04
581539.18	4198662.81	8930.32712	0.14016	1.465E-03	1.901E-06	1.467E-03	2.284E-04	1.901E-06	2.303E-04
582230.36	4199610.14	8933.01231	0.11843	1.465E-03	1.607E-06	1.467E-03	2.284E-04	1.607E-06	2.300E-04
581791.16	4199547.42	8910.24636	0.10908	1.461E-03	1.480E-06	1.463E-03	2.278E-04	1.480E-06	2.293E-04
581990.56	4199600.27	8843.23539	0.11291	1.450E-03	1.532E-06	1.452E-03	2.261E-04	1.532E-06	2.277E-04
582136.17	4199615.26	8838.78155	0.11532	1.450E-03	1.564E-06	1.451E-03	2.260E-04	1.564E-06	2.276E-04
581515.33	4199315.22	8828.70272	0.109	1.448E-03	1.479E-06	1.449E-03	2.258E-04	1.479E-06	2.272E-04
581591.18	4199435	8824.26246	0.10495	1.447E-03	1.424E-06	1.449E-03	2.256E-04	1.424E-06	2.271E-04
582192.78	4199617.46	8774.87363	0.11592	1.439E-03	1.572E-06	1.441E-03	2.244E-04	1.572E-06	2.259E-04
582274.36	4199612.26	8771.3898	0.1179	1.439E-03	1.599E-06	1.440E-03	2.243E-04	1.599E-06	2.259E-04
581755.98	4198474.48	8744.00978	0.1817	1.434E-03	2.465E-06	1.437E-03	2.236E-04	2.465E-06	2.261E-04
581811.55	4198435.92	8718.97991	0.17832	1.430E-03	2.419E-06	1.432E-03	2.229E-04	2.419E-06	2.254E-04
581562.18	4198618.8	8718.71119	0.14183	1.430E-03	1.924E-06	1.432E-03	2.229E-04	1.924E-06	2.249E-04
581588.36	4198589.06	8699.63818	0.15019	1.427E-03	2.037E-06	1.429E-03	2.225E-04	2.037E-06	2.245E-04
582405.39	4199596.73	8711.12974	0.12045	1.429E-03	1.634E-06	1.430E-03	2.227E-04	1.634E-06	2.244E-04
581487.62	4198770.51	8705.9705	0.12983	1.428E-03	1.761E-06	1.430E-03	2.226E-04	1.761E-06	2.244E-04
582381.78	4199601.26	8688.38461	0.1197	1.425E-03	1.624E-06	1.427E-03	2.222E-04	1.624E-06	2.238E-04
581465.81	4199102.64	8685.32658	0.11696	1.424E-03	1.587E-06	1.426E-03	2.221E-04	1.587E-06	2.237E-04
581940.11	4199595.76	8681.28436	0.11062	1.424E-03	1.501E-06	1.425E-03	2.220E-04	1.501E-06	2.235E-04
581932.76	4198344.83	8653.71647	0.15148	1.419E-03	2.055E-06	1.421E-03	2.213E-04	2.055E-06	2.233E-04
582176.92	4199621.61	8666.91255	0.11448	1.421E-03	1.553E-06	1.423E-03	2.216E-04	1.553E-06	2.232E-04
582341.98	4199608.05	8663.73789	0.1185	1.421E-03	1.607E-06	1.423E-03	2.215E-04	1.607E-06	2.231E-04
581502.57	4199294.8	8660.08285	0.10837	1.420E-03	1.470E-06	1.422E-03	2.214E-04	1.470E-06	2.229E-04
581915.19	4199590.96	8655.22361	0.10993	1.420E-03	1.491E-06	1.421E-03	2.213E-04	1.491E-06	2.228E-04
581637.98	4199482.57	8654.5475	0.10344	1.419E-03	1.403E-06	1.421E-03	2.213E-04	1.403E-06	2.227E-04
582212.55	4199621.61	8639.11992	0.11501	1.417E-03	1.560E-06	1.418E-03	2.209E-04	1.560E-06	2.225E-04
582154.96	4199622.58	8639.58342	0.11375	1.417E-03	1.543E-06	1.419E-03	2.209E-04	1.543E-06	2.225E-04
581860.83	4198397.15	8611.55378	0.16749	1.412E-03	2.272E-06	1.415E-03	2.202E-04	2.272E-06	2.225E-04
582297.65	4199615.17	8625.23621	0.11696	1.415E-03	1.587E-06	1.416E-03	2.206E-04	1.587E-06	2.221E-04
581640.08	4198542.19	8606.06686	0.16	1.411E-03	2.170E-06	1.414E-03	2.201E-04	2.170E-06	2.222E-04
581762.94	4199547.12	8617.82936	0.10589	1.413E-03	1.436E-06	1.415E-03	2.204E-04	1.436E-06	2.218E-04
581541.1	4199381.7	8603.9803	0.10436	1.411E-03	1.416E-06	1.413E-03	2.200E-04	1.416E-06	2.214E-04
581907.3	4198359.55	8536.61492	0.15677	1.400E-03	2.127E-06	1.402E-03	2.183E-04	2.127E-06	2.204E-04
582316.74	4199616.14	8539.0834	0.11653	1.401E-03	1.581E-06	1.402E-03	2.183E-04	1.581E-06	2.199E-04
581892.97	4199589.76	8528.97067	0.10836	1.399E-03	1.470E-06	1.400E-03	2.181E-04	1.470E-06	2.196E-04
581518.14	4199345.09	8513.61874	0.10496	1.396E-03	1.424E-06	1.398E-03	2.177E-04	1.424E-06	2.191E-04
581684.04	4198508.57	8483.21793	0.16664	1.391E-03	2.260E-06	1.394E-03	2.169E-04	2.260E-06	2.192E-04
582229.87	4199626.97	8470.49285	0.11368	1.389E-03	1.542E-06	1.391E-03	2.166E-04	1.542E-06	2.181E-04
581470.28	4199184.06	8467.47025	0.11089	1.389E-03	1.504E-06	1.390E-03	2.165E-04	1.504E-06	2.180E-04
581507.8	4198691.71	8454.57026	0.13075	1.387E-03	1.774E-06	1.388E-03	2.162E-04	1.774E-06	2.180E-04
581490.21	4198735.22	8436.82672	0.12801	1.384E-03	1.736E-06	1.385E-03	2.157E-04	1.736E-06	2.175E-04
581456.47	4199081.81	8403.02085	0.11552	1.378E-03	1.567E-06	1.380E-03	2.149E-04	1.567E-06	2.164E-04
582356.21	4199617.43	8368.55964	0.11565	1.373E-03	1.569E-06	1.374E-03	2.140E-04	1.569E-06	2.156E-04
581674.74	4199518.06	8347.6347	0.10134	1.369E-03	1.375E-06	1.370E-03	2.135E-04	1.375E-06	2.148E-04
581487.76	4199278.72	8345.65752	0.106	1.369E-03	1.438E-06	1.370E-03	2.134E-04	1.438E-06	2.148E-04
581733.65	4198471.57	8292.64576	0.17107	1.360E-03	2.321E-06	1.362E-03	2.120E-04	2.321E-06	2.144E-04
581868.04	4199591.86	8283.97954	0.10564	1.359E-03	1.433E-06	1.360E-03	2.118E-04	1.433E-06	2.133E-04
581564.96	4199435.51	8232.98061	0.09986	1.350E-03	1.355E-06	1.352E-03	2.105E-04	1.355E-06	2.119E-04
581515.24	4198659.51	8210.44856	0.12828	1.347E-03	1.740E-06	1.348E-03	2.099E-04	1.740E-06	2.117E-04
581727.8	4199548.02	8215.38628	0.10158	1.347E-03	1.378E-06	1.349E-03	2.101E-04	1.378E-06	2.114E-04
581865.26	4198377.53	8176.59181	0.15898	1.341E-03	2.157E-06	1.343E-03	2.091E-04	2.157E-06	2.112E-04
581540.2	4198618.8	8184.71636	0.12819	1.342E-03	1.739E-06	1.344E-03	2.093E-04	1.739E-06	2.110E-04
581459.73	4199166.45	8191.31376	0.10906	1.343E-03	1.479E-06	1.345E-03	2.095E-04	1.479E-06	2.109E-04
582404.89	4199617.33	8187.23772	0.11471	1.343E-03	1.556E-06	1.344E-03	2.094E-04	1.556E-06	2.109E-04
581662.71	4198509.22	8161.84251	0.15749	1.339E-03	2.136E-06	1.341E-03	2.087E-04	2.136E-06	2.108E-04
581841.44	4198394.34	8159.58732	0.16126	1.338E-03	2.187E-06	1.340E-03	2.086E-04	2.187E-06	2.108E-04
581612.61	4198544.45	8163.39963	0.14864	1.339E-03	2.016E-06	1.341E-03	2.087E-04	2.016E-06	2.108E-04
582432.25	4199614.85	8140.96003	0.11468	1.335E-03	1.556E-06	1.337E-03	2.082E-04	1.556E-06	2.097E-04
581906.84	4198343.9	8102.34937	0.14543	1.329E-03	1.973E-06	1.331E-03	2.072E-04	1.973E-06	2.092E-04
581562.18	4198586.15	8070.01087	0.13505	1.324E-03	1.832E-06	1.325E-03	2.064E-04	1.832E-06	2.082E-04
581519.47	4199379	8069.45438	0.10005	1.323E-03	1.357E-06	1.325E-03	2.063E-04	1.357E-06	2.077E-04
581472.44	4199254.47	8059.75223	0.10444	1.322E-03	1.417E-06	1.323E-03	2.061E-04	1.417E-06	2.075E-04
581805.94	4198413.96	8030.58319	0.16571	1.317E-03	2.248E-06	1.319E-03	2.053E-04	2.248E-06	2.076E-04
581841.01	4199593.66	8037.6553	0.10281	1.318E-03	1.395E-06	1.320E-03	2.055E-04	1.395E-06	2.069E-04
581600.71	4199484.11	7981.57471	0.09722	1.309E-03	1.319E-06	1.310E-03	2.041E-04	1.319E-06	2.054E-04
581488.54	4198696.39	7968.95813	0.12289	1.307E-03	1.667E-06	1.309E-03	2.038E-04	1.667E-06	2.054E-04
581547.9	4199433.48	7899.81988	0.09704	1.296E-03	1.316E-06	1.297E-03	2.020E-04	1.316E-06	2.033E-04
581438.46	4199060.54	7854.77396	0.11006	1.288E-03	1.493E-06	1.290E-03	2.008E-04	1.493E-06	2.023E-04
581706.78	4198468.66	7820.19254	0.15948	1.283E-03	2.163E-06	1.285E-03	2.000E-04	2.163E-06	2.021E-04
581459.77	4198768.89	7826.37068	0.11759	1.284E-03	1.595E-06	1.285E-03	2.001E-04	1.595E-06	2.017E-04
581841.44	4198378	7760.05765	0.15379	1.273E-03	2.086E-06	1.275E-03	1.984E-04	2.086E-06	2.005E-04
581683.42	4199546.64	7772.10343	0.09665	1.275E-03	1.311E-06	1.276E-03	1.987E-04	1.311E-06	2.000E-04
581587.07	4198544.77	7721.92718	0.13307	1.266E-03	1.805E-06	1.268E-03	1.975E-04	1.805E-06	1.993E-04
581634.59	4198508.57	7714.13039	0.14642	1.265E-03	1.986E-06	1.267E-03	1.973E-04	1.986E-06	1.992E-04
582146.9	4199657.72	7725.31999	0.10442	1.267E-03	1.416E-06	1.268E-03	1.975E-04	1.416E-06	1.990E-04
581863.16	4198359.55	7700.9578	0.15038	1.263E-03	2.040E-06	1.265E-03	1.969E-04	2.040E-06	1.990E-04
581457.13	4199236.34	7709.81351	0.10188	1.264E-03	1.382E-06	1.266E-03	1.971E-04	1.382E-06	1.985E-04
581441.93	4199148	7694.22714	0.10464	1.262E-03	1.419E-06	1.263E-03	1.967E-04	1.419E-06	1.982E-04
582185.7	4199659.92	7687.38606	0.10465	1.261E-03	1.420E-06	1.262E-03	1.966E-04	1.420E-06	1.980E-04
582167.89	4199660.41	7673.79805	0.10421	1.259E-03	1.414E-06	1.260E-03	1.962E-04	1.414E-06	1.976E-04
581515.63	4198619.44	7633.04318	0.11873	1.252E-03	1.611E-06	1.254E-03	1.952E-04	1.611E-06	1.968E-04
582206.45	4199662.6	7619.11212	0.10429	1.250E-03	1.415E-06	1.251E-03	1.948E-04	1.415E-06	1.962E-04
581687.28	4198470.43	7595.35162	0.15288	1.246E-03	2.074E-06	1.248E-03	1.942E-04	2.074E-06	1.963E-04
581792.36	4199596.37	7594.22275	0.09771	1.246E-03	1.325E-06	1.247E-03	1.942E-04	1.325E-06	1.955E-04
581460.42	4198735.87	7584.2548	0.11572	1.244E-03	1.570E-06	1.245E-03	1.939E-04	1.570E-06	1.955E-04
581428	4199033.85	7585.6612	0.10764	1.244E-03	1.460E-06	1.246E-03	1.940E-04	1.460E-06	1.954E-04
581538.26	4198585.82	7579.40356	0.12191	1.243E-03	1.654E-06	1.245E-03	1.938E-04	1.654E-06	1.955E-04
581812.79	4199603.27	7583.57276	0.09808	1.244E-03	1.330E-06	1.245E-03	1.939E-04	1.330E-06	1.952E-04
582300.82	4199658.73	7567.27868	0.10559	1.241E-03	1.432E-06	1.243E-03	1.935E-04	1.432E-06	1.949E-04
581482.14	4199341.26	7570.97664	0.09642	1.242E-03	1.308E-06	1.243E-03	1.936E-04	1.308E-06	1.949E-04
582223.53	4199664.8	7556.18893	0.10394	1.239E-03	1.410E-06	1.241E-03	1.932E-04	1.410E-06	1.946E-04
581487.99	4198658.96	7520.94936	0.11724	1.234E-03	1.590E-06	1.235E-03	1.923E-04	1.590E-06	1.939E-04
581767.14	4199590.96	7524.36704	0.09647	1.234E-03	1.309E-06	1.235E-03	1.924E-04	1.309E-06	1.937E-04
582065.98	4199660.58	7512.10043	0.10125	1.232E-03	1.373E-06	1.233E-03	1.921E-04	1.373E-06	1.935E-04
581616.16	4198509.22	7455.80529	0.13822	1.223E-03	1.875E-06	1.225E-03	1.906E-04	1.875E-06	1.925E-04
582391	4199651.3	7468.93393	0.10637	1.225E-03	1.443E-06	1.226E-03	1.910E-04	1.443E-06	1.924E-04
581806.88	4198388.27	7443.81219	0.15434	1.221E-03	2.094E-06	1.223E-03	1.903E-04	2.094E-06	1.924E-04
581444.37	4199218.73	7433.36541	0.0998	1.219E-03	1.354E-06	1.221E-03	1.901E-04	1.354E-06	1.914E-04
581467.08	4198694.19	7391.39916	0.11426	1.212E-03	1.550E-06	1.214E-03	1.890E-04	1.550E-06	1.906E-04
582148.61	4199672.36	7389.20183	0.10098	1.212E-03	1.370E-06	1.213E-03	1.889E-04	1.370E-06	1.903E-04
582036.88	4199662.88	7371.41163	0.09956	1.209E-03	1.351E-06	1.210E-03	1.885E-04	1.351E-06	1.898E-04
581419.33	4199014.86	7362.48658	0.10529	1.208E-03	1.428E-06	1.209E-03	1.883E-04	1.428E-06	1.897E-04
582364.32	4199660.76	7355.38711	0.10454	1.206E-03	1.418E-06	1.208E-03	1.881E-04	1.418E-06	1.895E-04
581565.74	4198543.8	7344.81539	0.12387	1.205E-03	1.680E-06	1.206E-03	1.878E-04	1.680E-06	1.895E-04
581520.14	4199431.95	7339.74884	0.09221	1.204E-03	1.251E-06	1.205E-03	1.877E-04	1.251E-06	1.889E-04
582326.15	4199667.18	7327.5599	0.10344	1.202E-03	1.403E-06	1.203E-03	1.874E-04	1.403E-06	1.888E-04
581419.7	4199048.41	7323.68672	0.10397	1.201E-03	1.410E-06	1.203E-03	1.873E-04	1.410E-06	1.887E-04
581426.74	4199127.6	7319.2735	0.10111	1.200E-03	1.372E-06	1.202E-03	1.872E-04	1.372E-06	1.885E-04
581689.03	4199570.38	7306.7944	0.09268	1.198E-03	1.257E-06	1.200E-03	1.868E-04	1.257E-06	1.881E-04
581840.51	4198357.21	7281.85969	0.14484	1.194E-03	1.965E-06	1.196E-03	1.862E-04	1.965E-06	1.882E-04
581862.93	4198340.86	7282.63561	0.14254	1.194E-03	1.934E-06	1.196E-03	1.862E-04	1.934E-06	1.882E-04

581786.09	4198394.81	7264.84297	0.15336	1.192E-03	2.080E-06	1.194E-03	1.858E-04	2.080E-06	1.878E-04
582420.34	4199655.96	7276.81921	0.1047	1.193E-03	1.420E-06	1.195E-03	1.861E-04	1.420E-06	1.875E-04
581594.84	4199516.78	7267.77693	0.09072	1.192E-03	1.231E-06	1.193E-03	1.858E-04	1.231E-06	1.871E-04
581660.77	4198469.78	7240.78516	0.1431	1.188E-03	1.941E-06	1.190E-03	1.851E-04	1.941E-06	1.871E-04
581486.99	4199381.59	7258.07071	0.09266	1.190E-03	1.257E-06	1.192E-03	1.856E-04	1.257E-06	1.868E-04
582438.62	4199654.37	7248.2914	0.10466	1.189E-03	1.420E-06	1.190E-03	1.853E-04	1.420E-06	1.868E-04
581987.56	4199660.33	7244.93343	0.09783	1.188E-03	1.327E-06	1.190E-03	1.853E-04	1.327E-06	1.866E-04
582013.39	4199665.13	7238.01988	0.09801	1.187E-03	1.330E-06	1.188E-03	1.851E-04	1.330E-06	1.864E-04
581518.22	4198587.44	7215.62825	0.11511	1.183E-03	1.561E-06	1.185E-03	1.845E-04	1.561E-06	1.861E-04
582228.9	4199682.12	7175.08282	0.09993	1.177E-03	1.356E-06	1.178E-03	1.835E-04	1.356E-06	1.848E-04
581411.33	4198993.26	7162.91933	0.10316	1.175E-03	1.399E-06	1.176E-03	1.832E-04	1.399E-06	1.846E-04
581434.84	4198768.25	7153.09749	0.10818	1.173E-03	1.467E-06	1.175E-03	1.829E-04	1.467E-06	1.844E-04
581430.84	4199197.29	7155.81578	0.09763	1.174E-03	1.324E-06	1.175E-03	1.830E-04	1.324E-06	1.843E-04
581742.81	4199599.67	7141.82803	0.09243	1.171E-03	1.254E-06	1.173E-03	1.826E-04	1.254E-06	1.839E-04
581592.57	4198509.54	7123.12102	0.12813	1.168E-03	1.738E-06	1.170E-03	1.821E-04	1.738E-06	1.839E-04
581964.14	4199661.23	7123.32041	0.09639	1.168E-03	1.308E-06	1.170E-03	1.821E-04	1.308E-06	1.835E-04
582409.42	4199665.89	7115.12832	0.10264	1.167E-03	1.392E-06	1.168E-03	1.819E-04	1.392E-06	1.833E-04
582192.29	4199686.03	7113.91401	0.09868	1.167E-03	1.339E-06	1.168E-03	1.819E-04	1.339E-06	1.832E-04
582146.17	4199685.3	7106.617	0.09799	1.166E-03	1.329E-06	1.167E-03	1.817E-04	1.329E-06	1.830E-04
581550.3	4199485.99	7103.3296	0.08917	1.165E-03	1.210E-06	1.166E-03	1.816E-04	1.210E-06	1.828E-04
582212.3	4199686.52	7097.69477	0.09881	1.164E-03	1.340E-06	1.165E-03	1.815E-04	1.340E-06	1.828E-04
582171.55	4199687.01	7088.52314	0.09812	1.163E-03	1.331E-06	1.164E-03	1.813E-04	1.331E-06	1.826E-04
581490.1	4198617.5	7067.46034	0.10957	1.159E-03	1.486E-06	1.161E-03	1.807E-04	1.486E-06	1.822E-04
582389.99	4199672.24	7051.38227	0.10154	1.157E-03	1.377E-06	1.158E-03	1.803E-04	1.377E-06	1.817E-04
582292.71	4199684.74	7046.1289	0.09961	1.156E-03	1.351E-06	1.157E-03	1.802E-04	1.351E-06	1.815E-04
581454.32	4199322.62	7038.59222	0.09187	1.154E-03	1.246E-06	1.156E-03	1.800E-04	1.246E-06	1.812E-04
581465.15	4198661.44	7027.51818	0.1094	1.153E-03	1.484E-06	1.154E-03	1.797E-04	1.484E-06	1.812E-04
581830.5	4199633.3	7017.51004	0.09326	1.151E-03	1.265E-06	1.152E-03	1.794E-04	1.265E-06	1.807E-04
581413.5	4199111.32	7009.56183	0.09782	1.150E-03	1.327E-06	1.151E-03	1.792E-04	1.327E-06	1.806E-04
581542.46	4198543.48	6962.00275	0.11612	1.142E-03	1.575E-06	1.143E-03	1.780E-04	1.575E-06	1.796E-04
581436.79	4198731.34	6959.14556	0.10686	1.141E-03	1.450E-06	1.143E-03	1.779E-04	1.450E-06	1.794E-04
581636.53	4198470.1	6946.87	0.13549	1.139E-03	1.838E-06	1.141E-03	1.776E-04	1.838E-06	1.795E-04
581444.62	4199300.42	6957.24208	0.09194	1.141E-03	1.247E-06	1.142E-03	1.779E-04	1.247E-06	1.791E-04
581940.11	4199663.93	6954.40421	0.09446	1.141E-03	1.281E-06	1.142E-03	1.778E-04	1.281E-06	1.791E-04
581806.17	4198363.52	6919.84157	0.14401	1.135E-03	1.954E-06	1.137E-03	1.769E-04	1.954E-06	1.789E-04
581405.32	4199060.39	6920.69827	0.09836	1.135E-03	1.334E-06	1.136E-03	1.770E-04	1.334E-06	1.783E-04
581841.21	4198338.06	6902.47326	0.13751	1.132E-03	1.865E-06	1.134E-03	1.765E-04	1.865E-06	1.784E-04
581711.52	4198421.94	6881.24032	0.14247	1.129E-03	1.933E-06	1.131E-03	1.760E-04	1.933E-06	1.779E-04
581696.33	4198430.67	6878.09702	0.14102	1.128E-03	1.913E-06	1.130E-03	1.759E-04	1.913E-06	1.778E-04
581467.85	4199379.04	6864.53921	0.0889	1.126E-03	1.206E-06	1.127E-03	1.755E-04	1.206E-06	1.767E-04
581399.98	4199020.94	6852.39546	0.09816	1.124E-03	1.332E-06	1.125E-03	1.752E-04	1.332E-06	1.765E-04
581597.39	4199542.82	6847.42349	0.08687	1.123E-03	1.178E-06	1.124E-03	1.751E-04	1.178E-06	1.763E-04
581916.09	4199663.93	6839.23012	0.09302	1.122E-03	1.262E-06	1.123E-03	1.749E-04	1.262E-06	1.761E-04
581691.84	4199595.4	6831.45335	0.08842	1.120E-03	1.199E-06	1.122E-03	1.747E-04	1.199E-06	1.759E-04
581397.66	4198973.73	6815.89899	0.09946	1.118E-03	1.349E-06	1.119E-03	1.743E-04	1.349E-06	1.756E-04
582080.79	4199693.77	6816.17078	0.09434	1.118E-03	1.280E-06	1.119E-03	1.743E-04	1.280E-06	1.756E-04
581413.99	4199171.76	6813.22231	0.09462	1.117E-03	1.284E-06	1.119E-03	1.742E-04	1.284E-06	1.755E-04
581442.03	4198693.64	6805.89138	0.10495	1.116E-03	1.424E-06	1.118E-03	1.740E-04	1.424E-06	1.755E-04
581530.13	4199483.19	6812.45961	0.08654	1.117E-03	1.174E-06	1.118E-03	1.742E-04	1.174E-06	1.754E-04
582326.15	4199694.2	6801.84447	0.09744	1.116E-03	1.322E-06	1.117E-03	1.739E-04	1.322E-06	1.752E-04
581781.42	4198370.76	6723.85267	0.14261	1.103E-03	1.935E-06	1.105E-03	1.719E-04	1.935E-06	1.739E-04
581568	4198506.63	6733.47867	0.11715	1.104E-03	1.589E-06	1.106E-03	1.722E-04	1.589E-06	1.738E-04
581893.27	4199663.33	6737.82762	0.0917	1.105E-03	1.244E-06	1.106E-03	1.723E-04	1.244E-06	1.735E-04
581400.48	4199088.75	6735.52786	0.09538	1.105E-03	1.294E-06	1.106E-03	1.722E-04	1.294E-06	1.735E-04
581551.58	4199513.05	6715.44508	0.08539	1.101E-03	1.158E-06	1.103E-03	1.717E-04	1.158E-06	1.729E-04
581491.71	4198584.85	6695.5688	0.10625	1.098E-03	1.441E-06	1.100E-03	1.712E-04	1.441E-06	1.726E-04
581485.72	4199431.88	6683.62162	0.08608	1.096E-03	1.168E-06	1.097E-03	1.709E-04	1.168E-06	1.721E-04
582292.71	4199703.99	6679.35762	0.09546	1.095E-03	1.295E-06	1.097E-03	1.708E-04	1.295E-06	1.721E-04
582461.87	4199680.99	6674.63806	0.09824	1.095E-03	1.333E-06	1.096E-03	1.707E-04	1.333E-06	1.720E-04
581426.75	4199281.78	6641.14569	0.08918	1.089E-03	1.210E-06	1.090E-03	1.698E-04	1.210E-06	1.710E-04
581610.99	4198468.81	6619.79525	0.12184	1.086E-03	1.653E-06	1.087E-03	1.693E-04	1.653E-06	1.709E-04
581808.98	4198343.66	6585.11647	0.13688	1.080E-03	1.857E-06	1.082E-03	1.684E-04	1.857E-06	1.702E-04
581465.53	4198617.83	6593.25697	0.10192	1.081E-03	1.383E-06	1.083E-03	1.686E-04	1.383E-06	1.700E-04
581865.34	4199663.33	6594.61837	0.08986	1.082E-03	1.219E-06	1.083E-03	1.686E-04	1.219E-06	1.698E-04
582385.26	4199698.59	6584.85438	0.09597	1.080E-03	1.302E-06	1.081E-03	1.684E-04	1.302E-06	1.697E-04
581391.8	4199066.18	6579.94284	0.09378	1.079E-03	1.272E-06	1.080E-03	1.683E-04	1.272E-06	1.695E-04
582223.31	4199713.23	6573.6241	0.09321	1.078E-03	1.264E-06	1.079E-03	1.681E-04	1.264E-06	1.694E-04
581605.56	4199567.07	6541.65433	0.08409	1.073E-03	1.141E-06	1.074E-03	1.673E-04	1.141E-06	1.684E-04
582352.16	4199706.02	6536.05566	0.09481	1.072E-03	1.286E-06	1.073E-03	1.671E-04	1.286E-06	1.684E-04
582402.82	4199699.26	6527.59239	0.0956	1.071E-03	1.297E-06	1.072E-03	1.669E-04	1.297E-06	1.682E-04
581841.31	4199662.73	6481.38904	0.08834	1.063E-03	1.198E-06	1.064E-03	1.657E-04	1.198E-06	1.669E-04
582103.51	4199713.68	6475.23586	0.09093	1.062E-03	1.233E-06	1.063E-03	1.656E-04	1.233E-06	1.668E-04
581513.69	4198539.92	6467.64297	0.10687	1.061E-03	1.450E-06	1.062E-03	1.654E-04	1.450E-06	1.668E-04
581397.4	4199155.93	6462.36865	0.09105	1.060E-03	1.235E-06	1.061E-03	1.652E-04	1.235E-06	1.665E-04
581545.37	4198507.92	6452.93402	0.11085	1.058E-03	1.504E-06	1.060E-03	1.650E-04	1.504E-06	1.665E-04
581438.18	4198659.51	6452.39692	0.09833	1.058E-03	1.334E-06	1.060E-03	1.650E-04	1.334E-06	1.663E-04
581700.78	4199620.42	6437.62316	0.08495	1.056E-03	1.152E-06	1.057E-03	1.646E-04	1.152E-06	1.658E-04
581395.99	4198803.86	6420.26381	0.09741	1.053E-03	1.321E-06	1.054E-03	1.642E-04	1.321E-06	1.655E-04
581393.08	4198818.11	6408.72133	0.09725	1.051E-03	1.319E-06	1.052E-03	1.639E-04	1.319E-06	1.652E-04
582069.81	4199713.43	6410.12505	0.09002	1.051E-03	1.221E-06	1.053E-03	1.639E-04	1.221E-06	1.651E-04
582460.87	4199697.88	6390.4904	0.09482	1.048E-03	1.286E-06	1.049E-03	1.634E-04	1.286E-06	1.647E-04
582290.69	4199720.54	6389.79792	0.09209	1.048E-03	1.249E-06	1.049E-03	1.634E-04	1.249E-06	1.646E-04
581669.5	4198418.71	6371.55623	0.12986	1.045E-03	1.762E-06	1.047E-03	1.629E-04	1.762E-06	1.647E-04
581399.23	4198777.96	6383.18119	0.0971	1.047E-03	1.317E-06	1.048E-03	1.632E-04	1.317E-06	1.645E-04
581810.08	4199659.73	6379.05385	0.08674	1.046E-03	1.177E-06	1.047E-03	1.631E-04	1.177E-06	1.643E-04
581587.39	4198469.46	6361.73962	0.11501	1.043E-03	1.560E-06	1.045E-03	1.627E-04	1.560E-06	1.642E-04
581710.11	4198393.87	6354.09667	0.13235	1.042E-03	1.795E-06	1.044E-03	1.625E-04	1.795E-06	1.643E-04
581389.41	4199127.6	6370.51248	0.09	1.045E-03	1.221E-06	1.046E-03	1.629E-04	1.221E-06	1.641E-04
581411.44	4199265.19	6371.06343	0.08694	1.045E-03	1.179E-06	1.046E-03	1.629E-04	1.179E-06	1.641E-04
581380.73	4199046	6364.50855	0.09151	1.044E-03	1.241E-06	1.045E-03	1.627E-04	1.241E-06	1.640E-04
581442.58	4199378.53	6352.04698	0.08385	1.042E-03	1.137E-06	1.043E-03	1.624E-04	1.137E-06	1.636E-04
582325.81	4199720.88	6336.83241	0.09201	1.039E-03	1.248E-06	1.041E-03	1.620E-04	1.248E-06	1.633E-04
581553.68	4199541.72	6330.54494	0.08165	1.038E-03	1.108E-06	1.039E-03	1.619E-04	1.108E-06	1.630E-04
581782.35	4198344.36	6273.56296	0.13271	1.029E-03	1.800E-06	1.031E-03	1.604E-04	1.800E-06	1.622E-04
581494.91	4199482.17	6272.90584	0.08146	1.029E-03	1.105E-06	1.030E-03	1.604E-04	1.105E-06	1.615E-04
581959.27	4199703.22	6260.78511	0.08769	1.027E-03	1.190E-06	1.028E-03	1.601E-04	1.190E-06	1.613E-04
582017.73	4199713.94	6259.8433	0.08812	1.027E-03	1.195E-06	1.028E-03	1.601E-04	1.195E-06	1.613E-04
581612.71	4199589.27	6257.38752	0.08154	1.026E-03	1.106E-06	1.027E-03	1.600E-04	1.106E-06	1.611E-04
582401.13	4199716.49	6248.97425	0.09221	1.025E-03	1.251E-06	1.026E-03	1.598E-04	1.251E-06	1.610E-04
581460.7	4199432.39	6229.03925	0.08183	1.022E-03	1.110E-06	1.023E-03	1.593E-04	1.110E-06	1.604E-04
581792.67	4199663.33	6221.4275	0.08486	1.020E-03	1.151E-06	1.022E-03	1.591E-04	1.151E-06	1.602E-04
581372.27	4199025.6	6210.75057	0.08995	1.019E-03	1.220E-06	1.020E-03	1.588E-04	1.220E-06	1.600E-04
581463.91	4198581.62	6191.34482	0.09792	1.015E-03	1.328E-06	1.017E-03	1.583E-04	1.328E-06	1.596E-04
581977.14	4199710.62	6190.07493	0.08711	1.015E-03	1.182E-06	1.016E-03	1.583E-04	1.182E-06	1.595E-04
582459.28	4199711.19	6182.23493	0.09226	1.014E-03	1.252E-06	1.015E-03	1.581E-04	1.252E-06	1.593E-04
582218.09	4199736.05	6178.28244	0.0887	1.013E-03	1.203E-06	1.015E-03	1.580E-04	1.203E-06	1.592E-04
581394.51	4198753.81	6174.10796	0.09478	1.013E-03	1.286E-06	1.014E-03	1.579E-04	1.286E-06	1.592E-04
581490.1	4198542.19	6152.31116	0.09886	1.009E-03	1.341E-06	1.010E-03	1.573E-04	1.341E-06	1.587E-04
581397.91	4199246.81	6150.7135	0.08519	1.009E-03	1.156E-06	1.010E-03	1.573E-04	1.156E-06	1.584E-04
582351.82	4199730	6141.21409	0.09012	1.007E-03	1.222E-06	1.008E-03	1.570E-04	1.222E-06	1.583E-04
581761.13	4199658.83	6131.40456	0.08335	1.006E-03	1.131E-06	1.007E-03	1.568E-04	1.131E-06	1.579E-04
582168.88	4199737.97	6128.73858	0.08767	1.005E-03	1.189E-06	1.006E-03	1.567E-04	1.189E-06	1.579E-04
581438.05	4198619.12	6113.2637	0.09432	1.003E-03	1.279E-06	1.004E-03	1.563E-04	1.279E-06	1.576E-04
581518.87	4198507.6	6106.06696	0.10362	1.001E-03	1.406E-06	1.003E-03	1.561E-04	1.406E-06	1.575E-04
581935.78	4199706.54	6110.77817	0.08593	1.002E-03	1.166E-06	1.003E-03	1.563E-04	1.166E-06	1.574E-04
581563.8	4198467.84	6076.85013	0.10859	9.967E-04	1.473E-06	9.981E-04	1.554E-04	1.473E-06	1.569E-04
581413.48	4199334.62	6066.11094	0.08186	9.949E-04	1.110E-06	9.960E-04	1.551E-04	1.110E-06	1.562E-04
581381.75	4198783.14	6049.74038	0.09231	9.922E-04	1.252E-06	9.935E-04	1.547E-04	1.252E-06	1.559E-04
581362.28	4198974.16	6040.18942	0.08872	9.907E-04	1.203E-06	9.919E-04	1.544E-04	1.203E-06	1.557E-04
582205.17	4199745.12	6028.98227	0.08688	9.888E-04	1.179E-06	9.900E-04	1.542E-04	1.179E-06	1.553E-04
581758.3	4198343.43	6010.97827	0.12694	9.859E-04	1.722E-06	9.876E-04	1.537E-04	1.722E-06	1.554E-04
581361.63	4198997.38	6017.99305	0.08801	9.870E-04	1.194E-06	9.882E-04	1.539E-04	1.194E-06	1.551E-04
581623.43	4199611.48	6010.56208	0.07937	9.858E-04	1.077E-06	9.869E-04	1.537E-04	1.077E-06	1.548E-04
581554.96	4199568.01	5986.14219	0.07829	9.818E-04	1.062E-06	9.829E-04	1.531E-04	1.062E-06	1.541E-04
582146.33	4199745.94	5976.05493	0.0858	9.801E-04	1.164E-06	9.813E-04	1.528E-04	1.164E-06	1.540E-04
581368.63	4199109.46	5968.60659	0.08582	9.789E-04	1.164E-06	9.801E-04	1.526E-04	1.164E-06	1.538E-04
582458.49	4199725.69	5965.14626	0.08958	9.783E-04	1.215E-06	9.796E-04	1.525E-04	1.215E-06	1.537E-04
581396.4	4198703.3	5955.31083	0.09254	9.767E-04	1.255E-06	9.780E-04	1.523E-04	1.255E-06	1.535E-04
582292.38	4199747.9	5949.21417	0.08695	9.757E-04	1.179E-06	9.769E-04	1.521E-04	1.179E-06	1.533E-04
581717.42	4198363.05	5922.70753	0.1246	9.714E-04	1.690E-06	9.731E-04	1.514E-04	1.690E-06	1.531E-04

581383.82	4199223.38	5939.25868	0.08356	9.741E-04	1.133E-06	9.752E-04	1.519E-04	1.133E-06	1.530E-04
581661.09	4198395.76	5918.07945	0.12147	9.706E-04	1.648E-06	9.723E-04	1.513E-04	1.648E-06	1.530E-04
582400.46	4199737.43	5929.95592	0.08832	9.726E-04	1.198E-06	9.738E-04	1.516E-04	1.198E-06	1.528E-04
581656.1	4199632.67	5932.65986	0.07922	9.730E-04	1.075E-06	9.741E-04	1.517E-04	1.075E-06	1.528E-04
581898	4199708.58	5924.55151	0.08361	9.717E-04	1.134E-06	9.728E-04	1.515E-04	1.134E-06	1.526E-04
581473.47	4199485.48	5923.79129	0.07803	9.716E-04	1.058E-06	9.726E-04	1.515E-04	1.058E-06	1.525E-04
581398.77	4199308.68	5906.83367	0.08095	9.688E-04	1.098E-06	9.699E-04	1.510E-04	1.098E-06	1.521E-04
582320.41	4199748.91	5900.91538	0.08676	9.678E-04	1.177E-06	9.690E-04	1.509E-04	1.177E-06	1.521E-04
581418.58	4199379.55	5894.69896	0.07928	9.668E-04	1.075E-06	9.679E-04	1.507E-04	1.075E-06	1.518E-04
582107.34	4199747.89	5889.68172	0.08462	9.660E-04	1.148E-06	9.671E-04	1.506E-04	1.148E-06	1.517E-04
581696.4	4198371.22	5856.67425	0.12255	9.606E-04	1.662E-06	9.622E-04	1.498E-04	1.662E-06	1.514E-04
581441.05	4199435.45	5873.69915	0.07836	9.633E-04	1.063E-06	9.644E-04	1.502E-04	1.063E-06	1.513E-04
581595.47	4198430.02	5839.25281	0.10888	9.577E-04	1.477E-06	9.592E-04	1.493E-04	1.477E-06	1.508E-04
582065.73	4199745.85	5841.12791	0.0839	9.580E-04	1.138E-06	9.591E-04	1.494E-04	1.138E-06	1.505E-04
581466.18	4198543.16	5827.97781	0.09026	9.559E-04	1.224E-06	9.571E-04	1.490E-04	1.224E-06	1.502E-04
581397.53	4198676.54	5821.79344	0.08836	9.548E-04	1.199E-06	9.560E-04	1.489E-04	1.199E-06	1.501E-04
582359.93	4199750.94	5810.44044	0.08624	9.530E-04	1.170E-06	9.541E-04	1.486E-04	1.170E-06	1.497E-04
581538.58	4198466.55	5790.20599	0.10024	9.497E-04	1.360E-06	9.510E-04	1.481E-04	1.360E-06	1.494E-04
581356.05	4199087.98	5770.0168	0.08376	9.463E-04	1.136E-06	9.475E-04	1.475E-04	1.136E-06	1.487E-04
582022.07	4199743.81	5765.65188	0.08289	9.456E-04	1.124E-06	9.468E-04	1.474E-04	1.124E-06	1.486E-04
581492.36	4198505.34	5751.40591	0.09169	9.433E-04	1.244E-06	9.445E-04	1.471E-04	1.244E-06	1.483E-04
581435.47	4198581.62	5751.36724	0.08716	9.433E-04	1.182E-06	9.445E-04	1.471E-04	1.182E-06	1.482E-04
581634.41	4199634.97	5750.51031	0.07706	9.431E-04	1.045E-06	9.442E-04	1.470E-04	1.045E-06	1.481E-04
581972.03	4199735.9	5747.31466	0.08242	9.426E-04	1.118E-06	9.437E-04	1.470E-04	1.118E-06	1.481E-04
582399.78	4199751.28	5733.68993	0.08588	9.404E-04	1.165E-06	9.416E-04	1.466E-04	1.165E-06	1.478E-04
581368.41	4199201.03	5703.81811	0.08142	9.355E-04	1.104E-06	9.366E-04	1.458E-04	1.104E-06	1.470E-04
581850.77	4199710.37	5700.86335	0.08068	9.350E-04	1.094E-06	9.361E-04	1.458E-04	1.094E-06	1.469E-04
582449.15	4199746.75	5689.89281	0.08602	9.332E-04	1.167E-06	9.344E-04	1.455E-04	1.167E-06	1.467E-04
581824.22	4199706.54	5650.66915	0.07975	9.268E-04	1.082E-06	9.279E-04	1.445E-04	1.082E-06	1.456E-04
581694.3	4198357.21	5632.36976	0.1183	9.238E-04	1.605E-06	9.254E-04	1.440E-04	1.605E-06	1.456E-04
581380.8	4199288.93	5646.03027	0.07873	9.260E-04	1.068E-06	9.271E-04	1.444E-04	1.068E-06	1.454E-04
581707.41	4199672.23	5638.36819	0.07742	9.248E-04	1.050E-06	9.258E-04	1.442E-04	1.050E-06	1.452E-04
581374.91	4198711.97	5621.64418	0.0874	9.220E-04	1.186E-06	9.232E-04	1.437E-04	1.186E-06	1.449E-04
581471.68	4199516.63	5596.73523	0.07446	9.179E-04	1.010E-06	9.189E-04	1.431E-04	1.010E-06	1.441E-04
581363.6	4198750.04	5588.86076	0.08645	9.166E-04	1.173E-06	9.178E-04	1.429E-04	1.173E-06	1.441E-04
581515.63	4198468.16	5572.22748	0.09272	9.139E-04	1.258E-06	9.152E-04	1.425E-04	1.258E-06	1.437E-04
581343.89	4199076.92	5569.18513	0.08122	9.134E-04	1.102E-06	9.145E-04	1.424E-04	1.102E-06	1.435E-04
581805.33	4199706.79	5569.1046	0.0786	9.134E-04	1.066E-06	9.145E-04	1.424E-04	1.066E-06	1.435E-04
581389.99	4198653.17	5558.50363	0.0847	9.117E-04	1.149E-06	9.128E-04	1.421E-04	1.149E-06	1.433E-04
581385.4	4199334.62	5542.16815	0.07667	9.090E-04	1.040E-06	9.100E-04	1.417E-04	1.040E-06	1.428E-04
582451.73	4199758.07	5533.27391	0.08408	9.075E-04	1.141E-06	9.087E-04	1.415E-04	1.141E-06	1.426E-04
581653.98	4198371.51	5505.49077	0.11224	9.030E-04	1.523E-06	9.045E-04	1.408E-04	1.523E-06	1.423E-04
581684.95	4199672.49	5520.02129	0.07579	9.053E-04	1.028E-06	9.064E-04	1.411E-04	1.028E-06	1.422E-04
581569.76	4199617.53	5496.88248	0.07358	9.015E-04	9.981E-07	9.025E-04	1.406E-04	9.981E-07	1.416E-04
581335.65	4199040.46	5489.01447	0.08039	9.003E-04	1.090E-06	9.013E-04	1.404E-04	1.090E-06	1.414E-04
581416.54	4199436.47	5484.23723	0.0745	8.995E-04	1.011E-06	9.005E-04	1.402E-04	1.011E-06	1.412E-04
581439.35	4198543.16	5470.10988	0.0828	8.972E-04	1.123E-06	8.983E-04	1.399E-04	1.123E-06	1.410E-04
581465.53	4198508.25	5463.55148	0.08494	8.961E-04	1.152E-06	8.972E-04	1.397E-04	1.152E-06	1.409E-04
581900.04	4199738.45	5462.92689	0.07879	8.960E-04	1.069E-06	8.970E-04	1.397E-04	1.069E-06	1.408E-04
581393.76	4198626.03	5453.14118	0.08399	8.944E-04	1.139E-06	8.955E-04	1.394E-04	1.139E-06	1.406E-04
581351.27	4199185.62	5432.4	0.07832	8.910E-04	1.062E-06	8.920E-04	1.389E-04	1.062E-06	1.400E-04
581392.04	4199381.85	5427.73566	0.07467	8.902E-04	1.013E-06	8.912E-04	1.388E-04	1.013E-06	1.398E-04
581771.63	4199707.05	5426.81113	0.07655	8.901E-04	1.038E-06	8.911E-04	1.388E-04	1.038E-06	1.398E-04
582102.74	4199778.27	5421.94256	0.07939	8.893E-04	1.077E-06	8.903E-04	1.386E-04	1.077E-06	1.397E-04
582415.73	4199773.1	5415.03434	0.0821	8.881E-04	1.114E-06	8.892E-04	1.385E-04	1.114E-06	1.396E-04
581595.8	4198398.02	5400.83147	0.10269	8.858E-04	1.393E-06	8.872E-04	1.381E-04	1.393E-06	1.395E-04
581973.82	4199758.36	5409.23449	0.07878	8.872E-04	1.069E-06	8.882E-04	1.383E-04	1.069E-06	1.394E-04
581397.9	4198606.43	5388.30045	0.0837	8.837E-04	1.135E-06	8.849E-04	1.378E-04	1.135E-06	1.389E-04
581689.4	4198341.1	5371.42358	0.11207	8.810E-04	1.520E-06	8.825E-04	1.373E-04	1.520E-06	1.389E-04
582019.01	4199769.08	5376.47283	0.07862	8.818E-04	1.066E-06	8.829E-04	1.375E-04	1.066E-06	1.385E-04
581327.62	4199020.28	5376.04546	0.07934	8.817E-04	1.076E-06	8.828E-04	1.375E-04	1.076E-06	1.385E-04
581585.08	4199636.67	5378.07179	0.07261	8.821E-04	9.850E-07	8.830E-04	1.375E-04	9.850E-07	1.385E-04
582068.53	4199777.76	5365.98249	0.07866	8.801E-04	1.067E-06	8.811E-04	1.372E-04	1.067E-06	1.383E-04
581325.67	4198998.15	5363.55898	0.0794	8.797E-04	1.077E-06	8.808E-04	1.371E-04	1.077E-06	1.382E-04
581471.42	4199542.41	5353.87811	0.07179	8.781E-04	9.738E-07	8.791E-04	1.369E-04	9.738E-07	1.379E-04
582493.87	4199765.59	5344.25256	0.08215	8.765E-04	1.114E-06	8.776E-04	1.367E-04	1.114E-06	1.378E-04
581648.96	4199671.21	5344.70119	0.07335	8.766E-04	9.950E-07	8.776E-04	1.367E-04	9.950E-07	1.377E-04
582222.94	4199792.99	5332.89467	0.07895	8.747E-04	1.071E-06	8.757E-04	1.364E-04	1.071E-06	1.374E-04
581341.94	4199165.45	5324.93397	0.07713	8.733E-04	1.046E-06	8.744E-04	1.362E-04	1.046E-06	1.372E-04
581490.74	4198468.16	5319.05894	0.08613	8.724E-04	1.168E-06	8.736E-04	1.360E-04	1.168E-06	1.372E-04
582188.01	4199793.32	5312.86671	0.0785	8.714E-04	1.065E-06	8.724E-04	1.359E-04	1.065E-06	1.369E-04
582169.57	4199792.67	5307.34732	0.07834	8.705E-04	1.063E-06	8.715E-04	1.357E-04	1.063E-06	1.368E-04
582203.53	4199794.93	5300.24185	0.07844	8.693E-04	1.064E-06	8.704E-04	1.355E-04	1.064E-06	1.366E-04
581343.63	4198756.45	5284.48699	0.08208	8.667E-04	1.113E-06	8.678E-04	1.351E-04	1.113E-06	1.362E-04
582519.89	4199765.78	5283.99184	0.08161	8.666E-04	1.107E-06	8.677E-04	1.351E-04	1.107E-06	1.362E-04
582326.38	4199793.99	5279.34975	0.07927	8.659E-04	1.075E-06	8.669E-04	1.350E-04	1.075E-06	1.361E-04
582343.42	4199794.27	5257.71365	0.0792	8.623E-04	1.074E-06	8.634E-04	1.344E-04	1.074E-06	1.355E-04
582360.47	4199793.72	5243.97685	0.07923	8.601E-04	1.075E-06	8.611E-04	1.341E-04	1.075E-06	1.352E-04
581855.88	4199742.79	5242.73798	0.07595	8.599E-04	1.030E-06	8.609E-04	1.341E-04	1.030E-06	1.351E-04
582491.29	4199775.12	5234.37447	0.08071	8.585E-04	1.095E-06	8.596E-04	1.338E-04	1.095E-06	1.349E-04
581424.94	4199488.49	5236.18858	0.07123	8.588E-04	9.662E-07	8.598E-04	1.339E-04	9.662E-07	1.349E-04
582376.96	4199793.72	5222.33351	0.07916	8.565E-04	1.074E-06	8.576E-04	1.335E-04	1.074E-06	1.346E-04
582416.55	4199789.32	5214.27349	0.07956	8.552E-04	1.079E-06	8.563E-04	1.333E-04	1.079E-06	1.344E-04
581348.9	4198711.59	5205.18869	0.08136	8.537E-04	1.104E-06	8.548E-04	1.331E-04	1.104E-06	1.342E-04
581348.23	4199249.63	5200.36166	0.07352	8.529E-04	9.973E-07	8.539E-04	1.330E-04	9.973E-07	1.340E-04
581900.3	4199757.08	5198.89228	0.07596	8.527E-04	1.030E-06	8.537E-04	1.329E-04	1.030E-06	1.340E-04
581594.78	4199657.1	5198.36744	0.07096	8.526E-04	9.626E-07	8.536E-04	1.329E-04	9.626E-07	1.339E-04
581440.96	4198506.63	5167.21836	0.07989	8.475E-04	1.084E-06	8.486E-04	1.321E-04	1.084E-06	1.332E-04
582471.42	4199784.85	5161.44082	0.07955	8.465E-04	1.079E-06	8.476E-04	1.320E-04	1.079E-06	1.331E-04
581328.49	4199140.93	5161.42003	0.07548	8.465E-04	1.024E-06	8.476E-04	1.320E-04	1.024E-06	1.330E-04
581311.78	4198972.76	5155.01087	0.07672	8.455E-04	1.041E-06	8.465E-04	1.318E-04	1.041E-06	1.329E-04
581630.39	4198356.97	5135.59136	0.09931	8.423E-04	1.347E-06	8.436E-04	1.313E-04	1.347E-06	1.327E-04
582516.72	4199779.69	5126.4908	0.07955	8.408E-04	1.079E-06	8.419E-04	1.311E-04	1.079E-06	1.322E-04
582102.74	4199800.23	5122.6434	0.07598	8.402E-04	1.031E-06	8.412E-04	1.310E-04	1.031E-06	1.320E-04
582445.8	4199793.2	5115.13182	0.07865	8.389E-04	1.067E-06	8.400E-04	1.308E-04	1.067E-06	1.319E-04
581350.43	4199289.44	5117.56375	0.07168	8.393E-04	9.723E-07	8.403E-04	1.309E-04	9.723E-07	1.318E-04
581351.17	4198679.18	5104.36384	0.07823	8.372E-04	1.061E-06	8.382E-04	1.305E-04	1.061E-06	1.316E-04
581973.57	4199780.57	5098.11821	0.07535	8.361E-04	1.022E-06	8.372E-04	1.304E-04	1.022E-06	1.314E-04
581465.53	4198470.43	5091.3215	0.08103	8.350E-04	1.099E-06	8.361E-04	1.302E-04	1.099E-06	1.313E-04
581712.44	4199713.76	5092.51054	0.07203	8.352E-04	9.771E-07	8.362E-04	1.302E-04	9.771E-07	1.312E-04
582393.46	4199804.44	5071.87222	0.07745	8.318E-04	1.051E-06	8.329E-04	1.297E-04	1.051E-06	1.307E-04
581469.64	4199572.02	5067.59937	0.06868	8.311E-04	9.316E-07	8.321E-04	1.296E-04	9.316E-07	1.305E-04
581354.18	4198659.2	5056.22188	0.07734	8.293E-04	1.049E-06	8.303E-04	1.293E-04	1.049E-06	1.303E-04
582467.65	4199794.79	5055.10951	0.07813	8.291E-04	1.060E-06	8.302E-04	1.293E-04	1.060E-06	1.303E-04
581378.68	4198595.5	5055.87213	0.07558	8.292E-04	1.025E-06	8.302E-04	1.293E-04	1.025E-06	1.303E-04
581362.47	4198634.32	5051.71514	0.07675	8.285E-04	1.041E-06	8.296E-04	1.292E-04	1.041E-06	1.302E-04
581357.06	4199341	5051.41254	0.07149	8.285E-04	9.698E-07	8.295E-04	1.292E-04	9.698E-07	1.301E-04
582068.02	4199801.5	5044.97608	0.07502	8.274E-04	1.018E-06	8.284E-04	1.290E-04	1.018E-06	1.300E-04
581368.04	4199386.44	5038.02015	0.07048	8.263E-04	9.561E-07	8.272E-04	1.288E-04	9.561E-07	1.298E-04
581596.77	4198366.66	5019.03013	0.09713	8.232E-04	1.318E-06	8.245E-04	1.283E-04	1.318E-06	1.297E-04
581384.38	4199436.47	5025.15946	0.06978	8.242E-04	9.466E-07	8.251E-04	1.285E-04	9.466E-07	1.294E-04
581685.97	4199710.73	5019.65	0.07079	8.233E-04	9.603E-07	8.242E-04	1.284E-04	9.603E-07	1.293E-04
582020.79	4199796.4	5010.6519	0.07453	8.218E-04	1.011E-06	8.228E-04	1.281E-04	1.011E-06	1.291E-04
581648.49	4198334.99	4994.36914	0.0983	8.191E-04	1.333E-06	8.205E-04	1.277E-04	1.333E-06	1.290E-04
581332.35	4199227.68	5003.51849	0.07212	8.206E-04	9.783E-07	8.216E-04	1.279E-04	9.783E-07	1.289E-04
581387.35	4198568.74	5001.89834	0.07447	8.204E-04	1.010E-06	8.214E-04	1.279E-04	1.010E-06	1.289E-04
581301.8	4198991.21	4998.47621	0.07431	8.198E-04	1.008E-06	8.208E-04	1.278E-04	1.008E-06	1.288E-04
582223.91	4199819.84	4993.48552	0.07491	8.190E-04	1.016E-06	8.200E-04	1.277E-04	1.016E-06	1.287E-04
581315.04	4199124.87	4986.71853	0.07351	8.179E-04	9.972E-07	8.189E-04	1.275E-04	9.972E-07	1.285E-04
582509.56	4199794.19	4978.12622	0.07755	8.165E-04	1.052E-06	8.175E-04	1.273E-04	1.052E-06	1.283E-04
582286.79	4199821.76	4970.18537	0.07506	8.152E-04	1.018E-06	8.162E-04	1.271E-04	1.018E-06	1.281E-04
581859.71	4199765	4961.12499	0.07296	8.137E-04	9.897E-07	8.147E-04	1.269E-04	9.897E-07	1.278E-04
582303.83	4199822.04	4959.46068	0.07507	8.134E-04	1.018E-06	8.144E-04	1.268E-04	1.018E-06	1.278E-04
582417.38	4199811.59	4956.81601	0.07625	8.130E-04	1.034E-06	8.140E-04	1.267E-04	1.034E-06	1.278E-04
582320.88	4199821.49	4955.20987	0.07517	8.127E-04	1.020E-06	8.137E-04	1.267E-04	1.020E-06	1.277E-04
581421.55	4199522.05	4953.3224	0.06795	8.124E-04	9.217E-07	8.133E-04	1.267E-04	9.217E-07	1.276E-04
582270.84	4199823.96	4948.60241	0.07467	8.116E-04	1.013E-06	8.126E-04	1.265E-04	1.013E-06	1.276E-04
581361.72	4198611.71	4924.38942	0.07286	8.077E-04	9.883E-07	8.086E-04	1.259E-04	9.883E-07	1.269E-04
581600.65	4199684.41	4917.60384	0.06823	8.065E-04	9.255E-07	8.075E-04	1.257E-04	9.255E-07	1.267E-04
581494.95	4198425.5	4911.63849	0.08129	8.056E-04	1.103E-06	8.067E-04	1.256E-04	1.103E-06	1.267E-04

581779.8	4199747.89	4908.93353	0.07131	8.051E-04	9.673E-07	8.061E-04	1.255E-04	9.673E-07	1.265E-04
582457.12	4199812.07	4885.03318	0.07578	8.012E-04	1.028E-06	8.022E-04	1.249E-04	1.028E-06	1.259E-04
582501.02	4199805.31	4874.94615	0.07611	7.995E-04	1.032E-06	8.006E-04	1.247E-04	1.032E-06	1.257E-04
581473.78	4199598.13	4877.35153	0.06662	7.999E-04	9.037E-07	8.008E-04	1.247E-04	9.037E-07	1.256E-04
581316.11	4198751.17	4866.37183	0.07586	7.981E-04	1.029E-06	7.992E-04	1.244E-04	1.029E-06	1.255E-04
581901.57	4199783.63	4857.74219	0.07222	7.967E-04	9.797E-07	7.977E-04	1.242E-04	9.797E-07	1.252E-04
582479.97	4199811.08	4853.93781	0.07562	7.961E-04	1.026E-06	7.971E-04	1.241E-04	1.026E-06	1.251E-04
581399.2	4198525.31	4850.2226	0.0737	7.955E-04	9.997E-07	7.965E-04	1.240E-04	9.997E-07	1.250E-04
582105.81	4199822.69	4846.49419	0.07279	7.949E-04	9.874E-07	7.959E-04	1.239E-04	9.874E-07	1.249E-04
581302.02	4199102.09	4845.13916	0.07161	7.947E-04	9.714E-07	7.956E-04	1.239E-04	9.714E-07	1.249E-04
581441.61	4198468.49	4842.64816	0.07658	7.942E-04	1.039E-06	7.953E-04	1.238E-04	1.039E-06	1.249E-04
581488.08	4199615.49	4846.29604	0.0663	7.948E-04	8.994E-07	7.957E-04	1.239E-04	8.994E-07	1.248E-04
581291.17	4199002.06	4838.29966	0.07211	7.935E-04	9.782E-07	7.945E-04	1.237E-04	9.782E-07	1.247E-04
581425.69	4199546.18	4827.46122	0.06638	7.918E-04	9.004E-07	7.927E-04	1.234E-04	9.004E-07	1.243E-04
581661.24	4199718.1	4825.04659	0.06835	7.914E-04	9.272E-07	7.923E-04	1.234E-04	9.272E-07	1.243E-04
581348.64	4199370.36	4822.69696	0.06853	7.910E-04	9.296E-07	7.919E-04	1.233E-04	9.296E-07	1.242E-04
581388.74	4199482.83	4822.44197	0.06711	7.909E-04	9.103E-07	7.918E-04	1.233E-04	9.103E-07	1.242E-04
581564.44	4198366.34	4796.58548	0.08881	7.867E-04	1.205E-06	7.879E-04	1.227E-04	1.205E-06	1.239E-04
581315.44	4199205.88	4801.68746	0.07042	7.875E-04	9.553E-07	7.885E-04	1.228E-04	9.553E-07	1.237E-04
581977.14	4199805.08	4797.54565	0.07198	7.868E-04	9.764E-07	7.878E-04	1.227E-04	9.764E-07	1.237E-04
581365.49	4199433.41	4789.85914	0.06738	7.856E-04	9.140E-07	7.865E-04	1.225E-04	9.140E-07	1.234E-04
581294.42	4199077.13	4786.71704	0.07084	7.851E-04	9.609E-07	7.860E-04	1.224E-04	9.609E-07	1.234E-04
581594.18	4198347.27	4778.55933	0.08836	7.837E-04	1.199E-06	7.849E-04	1.222E-04	1.199E-06	1.234E-04
582174.1	4199835.36	4779.78043	0.07214	7.839E-04	9.786E-07	7.849E-04	1.222E-04	9.786E-07	1.232E-04
581728.5	4199744.79	4770.24734	0.06899	7.824E-04	9.359E-07	7.833E-04	1.220E-04	9.359E-07	1.229E-04
581329.24	4199296.08	4763.12866	0.06578	7.812E-04	8.923E-07	7.821E-04	1.218E-04	8.923E-07	1.227E-04
582351.94	4199838.53	4743.66072	0.07279	7.780E-04	9.874E-07	7.790E-04	1.213E-04	9.874E-07	1.223E-04
582368.99	4199838.81	4724.61444	0.07271	7.749E-04	9.863E-07	7.759E-04	1.208E-04	9.863E-07	1.218E-04
582021.56	4199820.14	4721.3607	0.07121	7.744E-04	9.660E-07	7.753E-04	1.207E-04	9.660E-07	1.217E-04
582273.59	4199844.85	4713.89837	0.07178	7.731E-04	9.737E-07	7.741E-04	1.205E-04	9.737E-07	1.215E-04
582223.91	4199844.09	4713.78079	0.07152	7.731E-04	9.702E-07	7.741E-04	1.205E-04	9.702E-07	1.215E-04
582386.03	4199838.26	4711.77236	0.07273	7.728E-04	9.866E-07	7.738E-04	1.205E-04	9.866E-07	1.215E-04
582337.1	4199842.66	4711.89935	0.07225	7.728E-04	9.801E-07	7.738E-04	1.205E-04	9.801E-07	1.215E-04
581358.33	4198578.92	4711.5846	0.06995	7.728E-04	9.489E-07	7.737E-04	1.205E-04	9.489E-07	1.214E-04
581307.82	4198730.82	4696.57262	0.07363	7.703E-04	9.988E-07	7.713E-04	1.201E-04	9.988E-07	1.211E-04
581778.83	4199765.39	4696.70459	0.06903	7.703E-04	9.364E-07	7.712E-04	1.201E-04	9.364E-07	1.210E-04
581468.76	4198424.2	4687.50483	0.07681	7.688E-04	1.042E-06	7.698E-04	1.199E-04	1.042E-06	1.209E-04
581312.05	4198705.8	4673.76762	0.07261	7.665E-04	9.850E-07	7.675E-04	1.195E-04	9.850E-07	1.205E-04
582403.08	4199840.46	4668.71785	0.07234	7.657E-04	9.813E-07	7.667E-04	1.194E-04	9.813E-07	1.204E-04
581427.2	4199570.31	4670.1796	0.06453	7.660E-04	8.754E-07	7.668E-04	1.194E-04	8.754E-07	1.203E-04
581855.62	4199788.74	4660.69547	0.06961	7.644E-04	9.443E-07	7.653E-04	1.192E-04	9.443E-07	1.201E-04
582068.79	4199834.69	4645.74943	0.07039	7.620E-04	9.548E-07	7.629E-04	1.188E-04	9.548E-07	1.197E-04
581279.67	4199049.79	4631.50654	0.06884	7.596E-04	9.338E-07	7.606E-04	1.184E-04	9.338E-07	1.194E-04
581633.9	4199725.91	4625.1945	0.0658	7.586E-04	8.926E-07	7.595E-04	1.183E-04	8.926E-07	1.192E-04
581939.61	4199813.25	4606.81138	0.06964	7.556E-04	9.447E-07	7.565E-04	1.178E-04	9.447E-07	1.187E-04
581568	4198344.36	4586.53901	0.08315	7.522E-04	1.128E-06	7.534E-04	1.173E-04	1.128E-06	1.184E-04
581444.52	4198434.55	4581.66656	0.07173	7.514E-04	9.730E-07	7.524E-04	1.172E-04	9.730E-07	1.181E-04
581310.96	4198681.84	4579.20199	0.07037	7.510E-04	9.546E-07	7.520E-04	1.171E-04	9.546E-07	1.180E-04
581307.01	4199250.5	4564.29278	0.06401	7.486E-04	8.683E-07	7.495E-04	1.167E-04	8.683E-07	1.176E-04
581283.37	4198799.47	4557.0931	0.07079	7.474E-04	9.603E-07	7.484E-04	1.165E-04	9.603E-07	1.175E-04
582172.16	4199855.41	4555.67603	0.06943	7.472E-04	9.418E-07	7.481E-04	1.165E-04	9.418E-07	1.174E-04
582224.88	4199859.94	4543.90519	0.06944	7.452E-04	9.420E-07	7.462E-04	1.162E-04	9.420E-07	1.171E-04
581334.2	4198602.29	4544.72039	0.06718	7.454E-04	9.113E-07	7.463E-04	1.162E-04	9.113E-07	1.171E-04
581353.8	4198556.68	4543.72884	0.06801	7.452E-04	9.226E-07	7.461E-04	1.162E-04	9.226E-07	1.171E-04
581270.77	4199028.96	4540.90128	0.06799	7.448E-04	9.223E-07	7.457E-04	1.161E-04	9.223E-07	1.170E-04
581900.55	4199811.21	4531.49161	0.06854	7.432E-04	9.297E-07	7.441E-04	1.159E-04	9.297E-07	1.168E-04
581373.25	4198518.58	4531.70028	0.06677	7.432E-04	9.057E-07	7.442E-04	1.159E-04	9.057E-07	1.168E-04
582101.72	4199850.01	4529.23832	0.06903	7.428E-04	9.364E-07	7.438E-04	1.158E-04	9.364E-07	1.168E-04
581430.97	4199595.57	4522.90205	0.06283	7.418E-04	8.523E-07	7.427E-04	1.157E-04	8.523E-07	1.165E-04
582201.59	4199861.56	4513.92819	0.06899	7.403E-04	9.359E-07	7.413E-04	1.154E-04	9.359E-07	1.164E-04
581488.78	4199654.73	4515.34195	0.06276	7.406E-04	8.513E-07	7.414E-04	1.155E-04	8.513E-07	1.163E-04
581731.75	4199768.66	4513.83837	0.06631	7.403E-04	8.995E-07	7.412E-04	1.154E-04	8.995E-07	1.163E-04
581608.08	4199725.91	4513.8336	0.06421	7.403E-04	8.710E-07	7.412E-04	1.154E-04	8.710E-07	1.163E-04
582033.81	4199841.33	4507.15974	0.06873	7.392E-04	9.323E-07	7.402E-04	1.152E-04	9.323E-07	1.162E-04
582290.08	4199864.65	4505.79904	0.06927	7.390E-04	9.397E-07	7.399E-04	1.152E-04	9.397E-07	1.162E-04
581310.23	4198661.51	4499.98682	0.06844	7.380E-04	9.284E-07	7.390E-04	1.151E-04	9.284E-07	1.160E-04
581264.48	4198977.1	4500.07236	0.06779	7.381E-04	9.196E-07	7.390E-04	1.151E-04	9.196E-07	1.160E-04
582307.13	4199864.92	4499.41171	0.0693	7.380E-04	9.401E-07	7.389E-04	1.151E-04	9.401E-07	1.160E-04
582324.18	4199864.37	4498.43115	0.06941	7.378E-04	9.415E-07	7.387E-04	1.150E-04	9.415E-07	1.160E-04
581265.56	4199005.75	4496.96261	0.0676	7.376E-04	9.170E-07	7.385E-04	1.150E-04	9.170E-07	1.159E-04
581285.97	4199162.15	4495.78457	0.06684	7.374E-04	9.067E-07	7.383E-04	1.150E-04	9.067E-07	1.159E-04
581394.39	4198479.17	4482.60756	0.06692	7.352E-04	9.078E-07	7.361E-04	1.146E-04	9.078E-07	1.155E-04
581497.21	4198378.95	4479.62095	0.07362	7.347E-04	9.987E-07	7.357E-04	1.145E-04	9.987E-07	1.155E-04
581549.34	4199700.24	4482.88559	0.063	7.352E-04	8.546E-07	7.361E-04	1.146E-04	8.546E-07	1.155E-04
582273.59	4199868.22	4470.923	0.06874	7.333E-04	9.325E-07	7.342E-04	1.143E-04	9.325E-07	1.153E-04
581285.18	4198750.46	4467.43207	0.06954	7.327E-04	9.433E-07	7.337E-04	1.142E-04	9.433E-07	1.152E-04
581501.86	4199671.39	4461.34275	0.06228	7.317E-04	8.448E-07	7.326E-04	1.141E-04	8.448E-07	1.149E-04
581444.2	4198419.68	4456.8504	0.07019	7.310E-04	9.521E-07	7.319E-04	1.140E-04	9.521E-07	1.149E-04
581306.01	4199290.72	4456.20923	0.06254	7.309E-04	8.484E-07	7.317E-04	1.139E-04	8.484E-07	1.148E-04
581279.01	4199143.83	4446.40345	0.06623	7.293E-04	8.984E-07	7.302E-04	1.137E-04	8.984E-07	1.146E-04
581356.69	4199484.34	4447.47262	0.06311	7.294E-04	8.561E-07	7.303E-04	1.137E-04	8.561E-07	1.146E-04
581333.83	4198577.79	4431.04895	0.06595	7.267E-04	8.946E-07	7.276E-04	1.133E-04	8.946E-07	1.142E-04
582172.81	4199870.29	4401.20467	0.06755	7.218E-04	9.163E-07	7.228E-04	1.125E-04	9.163E-07	1.135E-04
581437	4199619.7	4401.46011	0.06143	7.219E-04	8.333E-07	7.227E-04	1.125E-04	8.333E-07	1.134E-04
582069.55	4199858.69	4386.87426	0.06732	7.195E-04	9.132E-07	7.204E-04	1.122E-04	9.132E-07	1.131E-04
581267.54	4198810.09	4385.85718	0.06828	7.193E-04	9.262E-07	7.203E-04	1.121E-04	9.262E-07	1.131E-04
581333.07	4199438	4376.62751	0.06281	7.178E-04	8.520E-07	7.187E-04	1.119E-04	8.520E-07	1.128E-04
581781.08	4199795.38	4374.66717	0.06553	7.175E-04	8.889E-07	7.184E-04	1.119E-04	8.889E-07	1.128E-04
581306.97	4198637.19	4374.23361	0.06478	7.174E-04	8.787E-07	7.183E-04	1.119E-04	8.787E-07	1.127E-04
581516.16	4199691.81	4375.06109	0.06149	7.176E-04	8.341E-07	7.184E-04	1.119E-04	8.341E-07	1.127E-04
581855.37	4199814.78	4372.84949	0.06636	7.172E-04	9.002E-07	7.181E-04	1.118E-04	9.002E-07	1.127E-04
581302.69	4199325.43	4332.99448	0.06088	7.107E-04	8.258E-07	7.115E-04	1.108E-04	8.258E-07	1.116E-04
582028.96	4199858.18	4320.43814	0.0665	7.086E-04	9.021E-07	7.095E-04	1.105E-04	9.021E-07	1.114E-04
581312.65	4199385.67	4307.77524	0.06279	7.065E-04	8.517E-07	7.074E-04	1.102E-04	8.517E-07	1.110E-04
581304.73	4199350.19	4306.91252	0.06246	7.064E-04	8.473E-07	7.072E-04	1.101E-04	8.473E-07	1.110E-04
581395.81	4198449.24	4292.45335	0.06501	7.040E-04	8.819E-07	7.049E-04	1.098E-04	8.819E-07	1.106E-04
582199.97	4199883.55	4291.70283	0.06625	7.039E-04	8.987E-07	7.048E-04	1.097E-04	8.987E-07	1.106E-04
581309.15	4198607.78	4290.46697	0.06359	7.037E-04	8.626E-07	7.045E-04	1.097E-04	8.626E-07	1.106E-04
581279.45	4199214.05	4290.39945	0.06116	7.037E-04	8.296E-07	7.045E-04	1.097E-04	8.296E-07	1.105E-04
581368.44	4198485.26	4286.09708	0.0636	7.030E-04	8.627E-07	7.038E-04	1.096E-04	8.627E-07	1.105E-04
582103.51	4199874.01	4283.08396	0.06607	7.025E-04	8.962E-07	7.034E-04	1.095E-04	8.962E-07	1.104E-04
581307.54	4199372.4	4283.3684	0.06273	7.025E-04	8.509E-07	7.034E-04	1.095E-04	8.509E-07	1.104E-04
581440.77	4199641.19	4277.68219	0.06004	7.016E-04	8.144E-07	7.024E-04	1.094E-04	8.144E-07	1.102E-04
581261.95	4198784.59	4274.02918	0.06673	7.010E-04	9.052E-07	7.019E-04	1.093E-04	9.052E-07	1.102E-04
581347.94	4198516.98	4274.17881	0.06266	7.010E-04	8.500E-07	7.019E-04	1.093E-04	8.500E-07	1.101E-04
581279.01	4198703.99	4272.12094	0.0657	7.007E-04	8.912E-07	7.016E-04	1.092E-04	8.912E-07	1.101E-04
581981.73	4199853.84	4270.36103	0.06585	7.004E-04	8.933E-07	7.013E-04	1.092E-04	8.933E-07	1.101E-04
582223.58	4199887.75	4265.98997	0.06598	6.997E-04	8.950E-07	7.006E-04	1.091E-04	8.950E-07	1.100E-04
581497.21	4198353.41	4252.35546	0.07047	6.974E-04	9.559E-07	6.984E-04	1.087E-04	9.559E-07	1.097E-04
581667.31	4199775.82	4241.11977	0.06231	6.956E-04	8.452E-07	6.964E-04	1.084E-04	8.452E-07	1.093E-04
581252.6	4198819.98	4232.10699	0.06604	6.941E-04	8.958E-07	6.950E-04	1.082E-04	8.958E-07	1.091E-04
581350.66	4199516.77	4233.43858	0.06049	6.943E-04	8.205E-07	6.951E-04	1.083E-04	8.205E-07	1.091E-04
581961.57	4199853.58	4229.92711	0.06532	6.938E-04	8.861E-07	6.946E-04	1.082E-04	8.861E-07	1.090E-04
581525.09	4199715.04	4231.9426	0.06005	6.941E-04	8.146E-07	6.949E-04	1.082E-04	8.146E-07	1.090E-04
581261.95	4198755.18	4211.69682	0.06601	6.908E-04	8.954E-07	6.917E-04	1.077E-04	8.954E-07	1.086E-04
581279.89	4199251.59	4213.27269	0.06004	6.910E-04	8.144E-07	6.918E-04	1.077E-04	8.144E-07	1.085E-04
581733.7	4199798.82	4211.66551	0.06305	6.908E-04	8.553E-07	6.916E-04	1.077E-04	8.553E-07	1.085E-04
581787.29	4199814.22	4201.22425	0.06367	6.890E-04	8.637E-07	6.899E-04	1.074E-04	8.637E-07	1.083E-04
582011.86	4199868.9	4181.49384	0.06482	6.858E-04	8.793E-07	6.867E-04	1.069E-04	8.793E-07	1.078E-04
581442.58	4198386.06	4179.83305	0.06661	6.855E-04	9.036E-07	6.864E-04	1.069E-04	9.036E-07	1.078E-04
581250.02	4198799.98	4170.56026	0.06521	6.840E-04	8.846E-07	6.849E-04	1.066E-04	8.846E-07	1.075E-04
582069.55	4199880.9	4165.52145	0.06464	6.832E-04	8.768E-07	6.841E-04	1.065E-04	8.768E-07	1.074E-04
581930.42	4199853.33	4163.55788	0.06442	6.829E-04	8.739E-07	6.837E-04	1.065E-04	8.739E-07	1.073E-04
581312.65	4199433.41	4163.50252	0.0606	6.829E-04	8.220E-07	6.837E-04	1.065E-04	8.220E-07	1.073E-04
581240.57	4199054.05	4154.00126	0.06253	6.813E-04	8.482E-07	6.821E-04	1.062E-04	8.482E-07	1.071E-04
581451.71	4199669.85	4152.29916	0.05865	6.810E-04	7.956E-07	6.818E-04	1.062E-04	7.956E-07	1.070E-04
581694.22	4199796	4129.73526	0.06154	6.773E-04	8.348E-07	6.782E-04	1.056E-04	8.348E-07	1.064E-04
581497.21	4198338.22	4123.95375	0.06886	6.764E-04	9.341E-07	6.773E-04	1.055E-04	9.341E-07	1.064E-04
581352.17	4199542.78	4125.80635	0.05906	6.767E-04	8.012E-07	6.775E-04	1.055E-04	8.012E-07	1.063E-04
581234.89	4199033.36	4116.18212	0.06224	6.751E-04	8.443E-07	6.759E-04	1.053E-04	8.443E-07	1.061E-04

581844.64	4199839.54	4098.73331	0.06311	6.722E-04	8.561E-07	6.731E-04	1.048E-04	8.561E-07	1.057E-04
582219.05	4199906.51	4090.45501	0.06376	6.709E-04	8.649E-07	6.717E-04	1.046E-04	8.649E-07	1.055E-04
581900.3	4199855.12	4078.26206	0.06327	6.689E-04	8.583E-07	6.697E-04	1.043E-04	8.583E-07	1.051E-04
581228.69	4199009.24	4071.57137	0.06183	6.678E-04	8.387E-07	6.686E-04	1.041E-04	8.387E-07	1.050E-04
581251.74	4199170.85	4065.06134	0.06147	6.667E-04	8.338E-07	6.675E-04	1.039E-04	8.338E-07	1.048E-04
581279.01	4198633.19	4064.85462	0.06031	6.667E-04	8.181E-07	6.675E-04	1.039E-04	8.181E-07	1.048E-04
581365.65	4198450.13	4056.35849	0.06104	6.653E-04	8.280E-07	6.661E-04	1.037E-04	8.280E-07	1.046E-04
581242.71	4198775.87	4049.53089	0.06342	6.642E-04	8.603E-07	6.650E-04	1.035E-04	8.603E-07	1.044E-04
581257.1	4199207.97	4048.6002	0.05983	6.640E-04	8.116E-07	6.648E-04	1.035E-04	8.116E-07	1.043E-04
582154.7	4199905.54	4046.7951	0.06316	6.637E-04	8.568E-07	6.646E-04	1.035E-04	8.568E-07	1.043E-04
581554.96	4199754.1	4048.31326	0.05846	6.640E-04	7.930E-07	6.648E-04	1.035E-04	7.930E-07	1.043E-04
581323.27	4198516.98	4047.73021	0.05935	6.639E-04	8.051E-07	6.647E-04	1.035E-04	8.051E-07	1.043E-04
581649.52	4199791.44	4045.179	0.0599	6.635E-04	8.125E-07	6.643E-04	1.034E-04	8.125E-07	1.042E-04
581461.89	4199694.35	4044.34795	0.05749	6.633E-04	7.799E-07	6.641E-04	1.034E-04	7.799E-07	1.042E-04
582181.54	4199909.42	4037.32622	0.06305	6.622E-04	8.553E-07	6.630E-04	1.032E-04	8.553E-07	1.041E-04
581233.3	4198818.9	4025.60216	0.06298	6.602E-04	8.543E-07	6.611E-04	1.029E-04	8.543E-07	1.038E-04
581288.4	4199388.99	4023.71518	0.05962	6.599E-04	8.087E-07	6.607E-04	1.029E-04	8.087E-07	1.037E-04
582276.89	4199916.89	4022.11131	0.06303	6.597E-04	8.550E-07	6.605E-04	1.028E-04	8.550E-07	1.037E-04
581466.5	4198345.33	4010.8125	0.06532	6.578E-04	8.861E-07	6.587E-04	1.026E-04	8.861E-07	1.034E-04
581338.33	4198481.42	4006.10562	0.0594	6.570E-04	8.058E-07	6.579E-04	1.024E-04	8.058E-07	1.032E-04
581220.13	4198981.79	3999.37614	0.06092	6.559E-04	8.264E-07	6.568E-04	1.023E-04	8.264E-07	1.031E-04
581349.53	4199567.29	3986.37221	0.05733	6.538E-04	7.777E-07	6.546E-04	1.019E-04	7.777E-07	1.027E-04
582361.84	4199921.01	3976.09011	0.06283	6.521E-04	8.523E-07	6.530E-04	1.017E-04	8.523E-07	1.025E-04
581280.46	4198600.16	3975.17967	0.05817	6.520E-04	7.891E-07	6.528E-04	1.016E-04	7.891E-07	1.024E-04
581234.42	4199127.97	3963.64534	0.06008	6.501E-04	8.150E-07	6.509E-04	1.014E-04	8.150E-07	1.022E-04
581475.84	4199719.24	3948.0352	0.05652	6.475E-04	7.667E-07	6.483E-04	1.010E-04	7.667E-07	1.017E-04
582101.35	4199910.17	3943.16234	0.06189	6.467E-04	8.395E-07	6.476E-04	1.008E-04	8.395E-07	1.017E-04
581307.37	4199484.08	3942.88503	0.05761	6.467E-04	7.815E-07	6.475E-04	1.008E-04	7.815E-07	1.016E-04
581225.08	4199087.6	3938.86375	0.05969	6.460E-04	8.097E-07	6.468E-04	1.007E-04	8.097E-07	1.015E-04
581788.48	4199843.37	3931.73009	0.06061	6.448E-04	8.222E-07	6.457E-04	1.005E-04	8.222E-07	1.014E-04
582067.51	4199907.96	3915.31402	0.06157	6.422E-04	8.352E-07	6.430E-04	1.001E-04	8.352E-07	1.010E-04
581253.63	4199251.37	3915.89783	0.0566	6.422E-04	7.678E-07	6.430E-04	1.001E-04	7.678E-07	1.009E-04
581572.82	4199779.11	3912.33307	0.05725	6.417E-04	7.766E-07	6.424E-04	1.000E-04	7.766E-07	1.008E-04
582283.49	4199931.46	3902.12083	0.06149	6.400E-04	8.341E-07	6.408E-04	9.978E-05	8.341E-07	1.006E-04
581261.34	4199297.86	3904.70532	0.05402	6.404E-04	7.328E-07	6.411E-04	9.984E-05	7.328E-07	1.006E-04
581672.3	4199816.83	3887.39008	0.05852	6.376E-04	7.938E-07	6.384E-04	9.940E-05	7.938E-07	1.002E-04
582325.28	4199933.66	3885.52875	0.06143	6.373E-04	8.333E-07	6.381E-04	9.935E-05	8.333E-07	1.002E-04
581871.45	4199870.18	3877.74853	0.06071	6.360E-04	8.235E-07	6.368E-04	9.916E-05	8.235E-07	9.998E-05
581349.53	4199589.91	3878.34943	0.05598	6.361E-04	7.594E-07	6.369E-04	9.917E-05	7.594E-07	9.993E-05
582302.18	4199935.58	3871.12439	0.06115	6.349E-04	8.295E-07	6.357E-04	9.899E-05	8.295E-07	9.982E-05
581284.82	4199435.71	3868.66095	0.05729	6.345E-04	7.771E-07	6.353E-04	9.892E-05	7.771E-07	9.970E-05
581402.32	4199664.19	3866.68828	0.0554	6.342E-04	7.515E-07	6.349E-04	9.887E-05	7.515E-07	9.962E-05
581341.27	4198448.8	3862.2373	0.05781	6.334E-04	7.842E-07	6.342E-04	9.876E-05	7.842E-07	9.954E-05
581262.62	4199327.98	3863.2795	0.05349	6.336E-04	7.256E-07	6.343E-04	9.879E-05	7.256E-07	9.951E-05
582383.56	4199934.76	3857.48888	0.06137	6.327E-04	8.325E-07	6.335E-04	9.864E-05	8.325E-07	9.947E-05
581256.5	4198634.28	3851.2867	0.05649	6.317E-04	7.663E-07	6.324E-04	9.848E-05	7.663E-07	9.924E-05
581222.01	4198775.15	3843.48185	0.0602	6.304E-04	8.166E-07	6.312E-04	9.828E-05	8.166E-07	9.910E-05
581213.4	4198824.21	3838.46561	0.06009	6.295E-04	8.151E-07	6.304E-04	9.815E-05	8.151E-07	9.897E-05
582217.44	4199935.94	3837.3052	0.06054	6.294E-04	8.212E-07	6.302E-04	9.812E-05	8.212E-07	9.894E-05
582200.62	4199934.65	3836.43398	0.06052	6.292E-04	8.210E-07	6.300E-04	9.810E-05	8.210E-07	9.892E-05
581382.46	4198393.17	3836.31272	0.05933	6.292E-04	8.048E-07	6.300E-04	9.810E-05	8.048E-07	9.890E-05
582134.97	4199928.18	3830.21418	0.06045	6.282E-04	8.200E-07	6.290E-04	9.794E-05	8.200E-07	9.876E-05
581202.46	4198932.52	3829.31452	0.0588	6.280E-04	7.976E-07	6.288E-04	9.792E-05	7.976E-07	9.871E-05
581740.21	4199842.43	3828.89083	0.05884	6.280E-04	7.982E-07	6.288E-04	9.791E-05	7.982E-07	9.870E-05
581229.18	4199171.26	3826.08048	0.05718	6.275E-04	7.756E-07	6.283E-04	9.783E-05	7.756E-07	9.861E-05
581237.36	4199216.22	3821.91352	0.05707	6.268E-04	7.742E-07	6.276E-04	9.773E-05	7.742E-07	9.850E-05
581306.63	4199519.17	3814.24413	0.05587	6.256E-04	7.579E-07	6.263E-04	9.753E-05	7.579E-07	9.829E-05
581296.36	4198514.09	3805.17456	0.05588	6.241E-04	7.580E-07	6.248E-04	9.730E-05	7.580E-07	9.806E-05
581265.17	4199378.02	3801.94832	0.05476	6.236E-04	7.428E-07	6.243E-04	9.722E-05	7.428E-07	9.796E-05
581487.03	4199748.9	3798.04292	0.05496	6.229E-04	7.455E-07	6.237E-04	9.712E-05	7.455E-07	9.786E-05
581221.65	4198748.64	3790.10908	0.05866	6.216E-04	7.957E-07	6.224E-04	9.691E-05	7.957E-07	9.771E-05
581232.18	4198699.27	3787.24815	0.0589	6.211E-04	7.990E-07	6.219E-04	9.684E-05	7.990E-07	9.764E-05
581362.49	4198405.15	3776.04022	0.05783	6.193E-04	7.845E-07	6.201E-04	9.655E-05	7.845E-07	9.734E-05
581258.28	4199348.92	3778.09882	0.05149	6.196E-04	6.985E-07	6.203E-04	9.661E-05	6.985E-07	9.731E-05
581437.73	4198333.69	3771.7087	0.06109	6.186E-04	8.287E-07	6.194E-04	9.644E-05	8.287E-07	9.727E-05
581288.14	4199482.42	3769.80141	0.05562	6.183E-04	7.545E-07	6.190E-04	9.640E-05	7.545E-07	9.715E-05
581588.14	4199804.13	3767.0348	0.05589	6.178E-04	7.582E-07	6.186E-04	9.632E-05	7.582E-07	9.708E-05
581397.35	4198363.76	3746.36343	0.05901	6.144E-04	8.005E-07	6.152E-04	9.580E-05	8.005E-07	9.660E-05
581254.69	4198601.25	3742.08131	0.05472	6.137E-04	7.423E-07	6.145E-04	9.569E-05	7.423E-07	9.643E-05
581305.79	4199542.41	3724.79418	0.05461	6.109E-04	7.408E-07	6.116E-04	9.524E-05	7.408E-07	9.598E-05
581345.38	4199616.68	3721.93433	0.05405	6.104E-04	7.332E-07	6.112E-04	9.517E-05	7.332E-07	9.590E-05
581220.2	4198718.87	3718.77932	0.05778	6.099E-04	7.838E-07	6.107E-04	9.509E-05	7.838E-07	9.587E-05
581679.24	4199840.69	3709.29441	0.05663	6.084E-04	7.682E-07	6.091E-04	9.485E-05	7.682E-07	9.562E-05
581788.74	4199870.94	3696.45198	0.05787	6.063E-04	7.850E-07	6.070E-04	9.452E-05	7.850E-07	9.530E-05
582067.51	4199936.3	3680.18215	0.05862	6.036E-04	7.952E-07	6.044E-04	9.410E-05	7.952E-07	9.490E-05
581230.41	4199250.94	3676.97666	0.05212	6.031E-04	7.070E-07	6.038E-04	9.402E-05	7.070E-07	9.473E-05
581597.84	4199820.21	3673.72516	0.055	6.025E-04	7.461E-07	6.033E-04	9.394E-05	7.461E-07	9.468E-05
581264.4	4199436.73	3671.65858	0.05419	6.022E-04	7.351E-07	6.029E-04	9.389E-05	7.351E-07	9.462E-05
581219.47	4198697.82	3670.32391	0.05725	6.020E-04	7.766E-07	6.027E-04	9.385E-05	7.766E-07	9.463E-05
581308.43	4199565.41	3662.19498	0.05368	6.006E-04	7.282E-07	6.014E-04	9.364E-05	7.282E-07	9.437E-05
582031.26	4199933.23	3651.96536	0.05829	5.990E-04	7.907E-07	5.998E-04	9.338E-05	7.907E-07	9.417E-05
581233.27	4198636.1	3648.26074	0.05362	5.984E-04	7.274E-07	5.991E-04	9.329E-05	7.274E-07	9.401E-05
581518.46	4199791.04	3637.97712	0.05353	5.967E-04	7.261E-07	5.974E-04	9.302E-05	7.261E-07	9.375E-05
581273.61	4198517.62	3636.07365	0.05346	5.964E-04	7.252E-07	5.971E-04	9.298E-05	7.252E-07	9.370E-05
581250.69	4198570.39	3620.02624	0.05296	5.937E-04	7.184E-07	5.944E-04	9.257E-05	7.184E-07	9.328E-05
581221.65	4198665.14	3616.08359	0.05335	5.931E-04	7.237E-07	5.938E-04	9.246E-05	7.237E-07	9.319E-05
582009.31	4199935.02	3604.14846	0.0577	5.911E-04	7.827E-07	5.919E-04	9.216E-05	7.827E-07	9.294E-05
581344.63	4199641.57	3603.44907	0.05256	5.910E-04	7.130E-07	5.917E-04	9.214E-05	7.130E-07	9.285E-05
581696.6	4199859.79	3598.18889	0.0556	5.901E-04	7.542E-07	5.909E-04	9.201E-05	7.542E-07	9.276E-05
581742.38	4199873.46	3584.38385	0.05603	5.879E-04	7.600E-07	5.886E-04	9.165E-05	7.600E-07	9.241E-05
581395.53	4198336.17	3568.51523	0.0569	5.853E-04	7.719E-07	5.860E-04	9.125E-05	7.719E-07	9.202E-05
581986.84	4199935.02	3568.11029	0.05724	5.852E-04	7.765E-07	5.860E-04	9.124E-05	7.765E-07	9.201E-05
581538.75	4199811.55	3567.1586	0.05299	5.851E-04	7.188E-07	5.858E-04	9.121E-05	7.188E-07	9.193E-05
581304.02	4198442.59	3565.19684	0.05271	5.847E-04	7.150E-07	5.854E-04	9.116E-05	7.150E-07	9.188E-05
581966.42	4199932.98	3549.74198	0.05699	5.822E-04	7.731E-07	5.830E-04	9.077E-05	7.731E-07	9.154E-05
581285.14	4198470.84	3548.7426	0.05216	5.820E-04	7.076E-07	5.827E-04	9.074E-05	7.076E-07	9.145E-05
581607.64	4199842.21	3538.55205	0.05364	5.804E-04	7.276E-07	5.811E-04	9.048E-05	7.276E-07	9.121E-05
582327.7	4199982.05	3528.90079	0.05668	5.788E-04	7.689E-07	5.795E-04	9.024E-05	7.689E-07	9.100E-05
582373.6	4199981.4	3527.78346	0.05683	5.786E-04	7.709E-07	5.794E-04	9.021E-05	7.709E-07	9.098E-05
582284.08	4199981.07	3527.84657	0.05657	5.786E-04	7.674E-07	5.794E-04	9.021E-05	7.674E-07	9.098E-05
581357.41	4198365.58	3527.15504	0.05401	5.785E-04	7.326E-07	5.792E-04	9.019E-05	7.326E-07	9.092E-05
581942.93	4199932.72	3511.64098	0.05648	5.759E-04	7.662E-07	5.767E-04	8.979E-05	7.662E-07	9.056E-05
581298.63	4199590.29	3497.25345	0.05169	5.736E-04	7.012E-07	5.743E-04	8.943E-05	7.012E-07	9.013E-05
581460.44	4199778.95	3496.19168	0.05136	5.734E-04	6.967E-07	5.741E-04	8.940E-05	6.967E-07	9.010E-05
581344.63	4199665.7	3496.11606	0.0512	5.734E-04	6.945E-07	5.741E-04	8.940E-05	6.945E-07	9.009E-05
581334.54	4198384.82	3493.47754	0.05287	5.730E-04	7.172E-07	5.737E-04	8.933E-05	7.172E-07	9.005E-05
581251.19	4198525.63	3489.79866	0.05106	5.724E-04	6.926E-07	5.731E-04	8.924E-05	6.926E-07	8.993E-05
581789.5	4199898.51	3485.3305	0.05535	5.716E-04	7.508E-07	5.724E-04	8.912E-05	7.508E-07	8.987E-05
581918.17	4199931.7	3475.97871	0.05598	5.701E-04	7.594E-07	5.709E-04	8.888E-05	7.594E-07	8.964E-05
582207.59	4199983.02	3472.96749	0.05581	5.696E-04	7.571E-07	5.704E-04	8.880E-05	7.571E-07	8.956E-05
581252.92	4199478.08	3474.96081	0.05034	5.699E-04	6.829E-07	5.706E-04	8.886E-05	6.829E-07	8.954E-05
582160.39	4199979.77	3457.82037	0.05566	5.671E-04	7.550E-07	5.679E-04	8.842E-05	7.550E-07	8.917E-05
581253.68	4199488.29	3458.40734	0.05113	5.672E-04	6.936E-07	5.679E-04	8.843E-05	6.936E-07	8.913E-05
581240.66	4199438.26	3452.34787	0.04881	5.662E-04	6.621E-07	5.669E-04	8.828E-05	6.621E-07	8.894E-05
581315.24	4198399.36	3446.46794	0.05172	5.653E-04	7.016E-07	5.660E-04	8.813E-05	7.016E-07	8.883E-05
581552.96	4199836.16	3444.02813	0.05181	5.649E-04	7.028E-07	5.656E-04	8.806E-05	7.028E-07	8.877E-05
581302.4	4199614.8	3432.77853	0.05083	5.630E-04	6.895E-07	5.637E-04	8.778E-05	6.895E-07	8.847E-05
581281.62	4198446.17	3429.26586	0.05061	5.624E-04	6.865E-07	5.631E-04	8.769E-05	6.865E-07	8.837E-05
581895.96	4199934.25	3418.45483	0.05519	5.607E-04	7.487E-07	5.614E-04	8.741E-05	7.487E-07	8.816E-05
581428.26	4199770.53	3409.03698	0.05016	5.591E-04	6.804E-07	5.598E-04	8.717E-05	6.804E-07	8.785E-05
582111.24	4199980.42	3404.2268	0.05503	5.583E-04	7.465E-07	5.591E-04	8.705E-05	7.465E-07	8.779E-05
581362.13	4198337.26	3402.34722	0.05278	5.580E-04	7.160E-07	5.587E-04	8.700E-05	7.160E-07	8.772E-05
581618.27	4199865.43	3400.44615	0.05223	5.577E-04	7.085E-07	5.584E-04	8.695E-05	7.085E-07	8.766E-05
581492.92	4199814.78	3400.7377	0.05059	5.578E-04	6.863E-07	5.584E-04	8.696E-05	6.863E-07	8.764E-05
581876.3	4199933.74	3387.62943	0.05472	5.556E-04	7.423E-07	5.563E-04	8.662E-05	7.423E-07	8.737E-05
581789.76	4199913.32	3379.14654	0.05406	5.542E-04	7.333E-07	5.549E-04	8.641E-05	7.333E-07	8.714E-05
581253.01	4199519.78	3375.82591	0.05075	5.537E-04	6.884E-07	5.544E-04	8.632E-05	6.884E-07	8.701E-05
581744.77	4199904.7	3361.27242	0.05341	5.513E-04	7.245E-07	5.520E-04	8.595E-05	7.245E-07	8.667E-05
581341.24	4199692.47	3360.75487	0.04952	5.512E-04	6.717E-07	5.519E-04	8.594E-05	6.717E-07	8.661E-05
581851.54	4199932.98	3349.68742	0.05413	5.494E-04	7.343E-07	5.501E-04	8.565E-05	7.343E-07	8.639E-05

581268.49	4198444.57	3337.91786	0.04923	5.475E-04	6.678E-07	5.481E-04	8.535E-05	6.678E-07	8.602E-05
581302.02	4199640.06	3336.85471	0.04956	5.473E-04	6.723E-07	5.480E-04	8.532E-05	6.723E-07	8.600E-05
581402.26	4199763.06	3334.29349	0.04918	5.469E-04	6.671E-07	5.475E-04	8.526E-05	6.671E-07	8.593E-05
581827.8	4199931.19	3321.05064	0.05363	5.447E-04	7.275E-07	5.454E-04	8.492E-05	7.275E-07	8.565E-05
581214.63	4199379.8	3322.47374	0.04473	5.449E-04	6.068E-07	5.455E-04	8.496E-05	6.068E-07	8.556E-05
581562.08	4199859.7	3315.68731	0.05048	5.438E-04	6.848E-07	5.445E-04	8.478E-05	6.848E-07	8.547E-05
581211.48	4198558.77	3290.39818	0.04825	5.397E-04	6.545E-07	5.403E-04	8.414E-05	6.545E-07	8.479E-05
581229.43	4199481.65	3275.1429	0.04589	5.372E-04	6.225E-07	5.378E-04	8.375E-05	6.225E-07	8.437E-05
581790.27	4199930.43	3262.88236	0.05263	5.351E-04	7.139E-07	5.359E-04	8.343E-05	7.139E-07	8.415E-05
581237.09	4198482.7	3260.10639	0.04781	5.347E-04	6.485E-07	5.353E-04	8.336E-05	6.485E-07	8.401E-05
581341.61	4199716.98	3259.06858	0.04823	5.345E-04	6.542E-07	5.352E-04	8.334E-05	6.542E-07	8.399E-05
581994.06	4199980.75	3254.99755	0.05322	5.339E-04	7.219E-07	5.346E-04	8.323E-05	7.219E-07	8.395E-05
581228.92	4199496.72	3242.67253	0.04605	5.318E-04	6.247E-07	5.325E-04	8.292E-05	6.247E-07	8.354E-05
581629.12	4199893.2	3238.90368	0.05051	5.312E-04	6.852E-07	5.319E-04	8.282E-05	6.852E-07	8.350E-05
581479.09	4199836.08	3234.13574	0.04856	5.304E-04	6.587E-07	5.311E-04	8.270E-05	6.587E-07	8.336E-05
581373.21	4199756.97	3234.28429	0.04793	5.305E-04	6.502E-07	5.311E-04	8.270E-05	6.502E-07	8.335E-05
581445.97	4199817.34	3227.46356	0.04819	5.293E-04	6.537E-07	5.300E-04	8.253E-05	6.537E-07	8.318E-05
581223.95	4198500	3223.69362	0.04724	5.287E-04	6.408E-07	5.294E-04	8.243E-05	6.408E-07	8.307E-05
581251.5	4199575.59	3218.35596	0.04845	5.278E-04	6.572E-07	5.285E-04	8.229E-05	6.572E-07	8.295E-05
581244.46	4198453.54	3216.91158	0.04737	5.276E-04	6.426E-07	5.283E-04	8.226E-05	6.426E-07	8.290E-05
581295.99	4199664.19	3213.73438	0.04799	5.271E-04	6.510E-07	5.277E-04	8.218E-05	6.510E-07	8.283E-05
581210.18	4198527.55	3204.5357	0.04692	5.256E-04	6.365E-07	5.262E-04	8.194E-05	6.365E-07	8.258E-05
581249.9	4198434.96	3188.64621	0.04686	5.230E-04	6.357E-07	5.236E-04	8.153E-05	6.357E-07	8.217E-05
581740.86	4199931.61	3176.07835	0.05112	5.209E-04	6.934E-07	5.216E-04	8.121E-05	6.934E-07	8.191E-05
581946.87	4199983.02	3171.43564	0.05212	5.201E-04	7.070E-07	5.209E-04	8.109E-05	7.070E-07	8.180E-05
581205.69	4199430.35	3169.65286	0.04041	5.199E-04	5.482E-07	5.204E-04	8.105E-05	5.482E-07	8.160E-05
581197.27	4199390.78	3162.19837	0.04073	5.186E-04	5.525E-07	5.192E-04	8.086E-05	5.525E-07	8.141E-05
581721.77	4199932.69	3140.08326	0.05048	5.150E-04	6.848E-07	5.157E-04	8.029E-05	6.848E-07	8.098E-05
581213.09	4199484.46	3143.75566	0.04061	5.156E-04	5.509E-07	5.162E-04	8.039E-05	5.509E-07	8.094E-05
581918.55	4199982.05	3134.93121	0.05161	5.142E-04	7.001E-07	5.149E-04	8.016E-05	7.001E-07	8.086E-05
581294.48	4199686.06	3127.8626	0.04686	5.130E-04	6.357E-07	5.136E-04	7.998E-05	6.357E-07	8.062E-05
581583.08	4199898.51	3124.07711	0.04856	5.124E-04	6.587E-07	5.130E-04	7.988E-05	6.587E-07	8.054E-05
581336.7	4199748.12	3106.48012	0.04634	5.095E-04	6.286E-07	5.101E-04	7.943E-05	6.286E-07	8.006E-05
581245.84	4199606.13	3097.6028	0.04694	5.080E-04	6.367E-07	5.087E-04	7.921E-05	6.367E-07	7.984E-05
581633.03	4199917.94	3093.60588	0.04886	5.074E-04	6.628E-07	5.080E-04	7.910E-05	6.628E-07	7.977E-05
581679.46	4199931.61	3083.33209	0.04931	5.057E-04	6.689E-07	5.064E-04	7.884E-05	6.689E-07	7.951E-05
581208.24	4199497.99	3084.17696	0.03975	5.058E-04	5.392E-07	5.064E-04	7.886E-05	5.392E-07	7.940E-05
581390.4	4199807.51	3075.01788	0.04607	5.043E-04	6.249E-07	5.050E-04	7.863E-05	6.249E-07	7.925E-05
581497.63	4199875.63	3069.57883	0.04688	5.034E-04	6.359E-07	5.041E-04	7.849E-05	6.359E-07	7.913E-05
581195.23	4199444.9	3068.94157	0.03905	5.033E-04	5.297E-07	5.039E-04	7.847E-05	5.297E-07	7.900E-05
581468.03	4199866.23	3041.82876	0.04625	4.989E-04	6.274E-07	4.995E-04	7.778E-05	6.274E-07	7.841E-05
581247.35	4199633.27	3029.94779	0.04609	4.969E-04	6.252E-07	4.976E-04	7.748E-05	6.252E-07	7.810E-05
581638.02	4199930.52	3027.74646	0.04814	4.966E-04	6.530E-07	4.972E-04	7.742E-05	6.530E-07	7.807E-05
581291.84	4199715.09	3014.76944	0.04533	4.945E-04	6.149E-07	4.951E-04	7.709E-05	6.149E-07	7.770E-05
581362.53	4199800.3	3000.79484	0.04507	4.922E-04	6.114E-07	4.928E-04	7.673E-05	6.114E-07	7.734E-05
581425.97	4199850.62	2996.91748	0.04537	4.915E-04	6.154E-07	4.921E-04	7.663E-05	6.154E-07	7.725E-05
581588.38	4199926.09	2977.10492	0.0469	4.883E-04	6.362E-07	4.889E-04	7.613E-05	6.362E-07	7.676E-05
581186.29	4199466.08	2973.02117	0.03755	4.876E-04	5.094E-07	4.881E-04	7.602E-05	5.094E-07	7.653E-05
581816.02	4199984.98	2964.34317	0.04903	4.862E-04	6.651E-07	4.868E-04	7.580E-05	6.651E-07	7.646E-05
581181.19	4199450.26	2957.55029	0.03725	4.851E-04	5.053E-07	4.856E-04	7.563E-05	5.053E-07	7.613E-05
581784.44	4199982.05	2936.61213	0.04848	4.816E-04	6.576E-07	4.823E-04	7.509E-05	6.576E-07	7.575E-05
581341.88	4199796.36	2937.36729	0.04417	4.818E-04	5.992E-07	4.824E-04	7.511E-05	5.992E-07	7.571E-05
581242.83	4199661.55	2926.38493	0.04468	4.800E-04	6.061E-07	4.806E-04	7.483E-05	6.061E-07	7.543E-05
581294.86	4199751.29	2905.64505	0.04381	4.766E-04	5.943E-07	4.772E-04	7.430E-05	5.943E-07	7.489E-05
581552.37	4199930.55	2892.45928	0.04546	4.744E-04	6.167E-07	4.750E-04	7.396E-05	6.167E-07	7.458E-05
581758.4	4199984.65	2886.81573	0.04766	4.735E-04	6.465E-07	4.741E-04	7.382E-05	6.465E-07	7.446E-05
581461.11	4199895.55	2880.56743	0.04431	4.724E-04	6.011E-07	4.730E-04	7.366E-05	6.011E-07	7.426E-05
581175.31	4199477.57	2880.77985	0.03613	4.725E-04	4.901E-07	4.730E-04	7.366E-05	4.901E-07	7.415E-05
581520.84	4199929.42	2843.07809	0.04451	4.663E-04	6.038E-07	4.669E-04	7.270E-05	6.038E-07	7.330E-05
581409.94	4199874.8	2840.88496	0.04341	4.659E-04	5.889E-07	4.665E-04	7.264E-05	5.889E-07	7.323E-05
581684.84	4199976.51	2837.03322	0.04635	4.653E-04	6.287E-07	4.659E-04	7.254E-05	6.287E-07	7.317E-05
581318.11	4199801.77	2825.17099	0.04269	4.634E-04	5.791E-07	4.639E-04	7.224E-05	5.791E-07	7.282E-05
581364.5	4199849.47	2808.47536	0.04269	4.606E-04	5.791E-07	4.612E-04	7.181E-05	5.791E-07	7.239E-05
581267.34	4199747.52	2796.40986	0.04246	4.586E-04	5.760E-07	4.592E-04	7.151E-05	5.760E-07	7.208E-05
581495.88	4199929.64	2795.68848	0.04367	4.585E-04	5.924E-07	4.591E-04	7.149E-05	5.924E-07	7.208E-05
581660.43	4199983.35	2771.45099	0.04527	4.545E-04	6.141E-07	4.552E-04	7.087E-05	6.141E-07	7.148E-05
581631.86	4199979.11	2758.05066	0.04479	4.523E-04	6.076E-07	4.530E-04	7.052E-05	6.076E-07	7.113E-05
581376.47	4199871.76	2757.00871	0.04215	4.522E-04	5.718E-07	4.528E-04	7.050E-05	5.718E-07	7.107E-05
581292.7	4199794.89	2750.46021	0.04175	4.511E-04	5.663E-07	4.517E-04	7.033E-05	5.663E-07	7.090E-05
581463.66	4199927.37	2741.03104	0.0427	4.496E-04	5.792E-07	4.501E-04	7.009E-05	5.792E-07	7.067E-05
581343.03	4199849.14	2740.32883	0.04172	4.494E-04	5.659E-07	4.500E-04	7.007E-05	5.659E-07	7.064E-05
581409.66	4199902.74	2722.25313	0.042	4.465E-04	5.697E-07	4.470E-04	6.961E-05	5.697E-07	7.018E-05
581589.02	4199979.11	2704.3174	0.04364	4.435E-04	5.920E-07	4.441E-04	6.915E-05	5.920E-07	6.974E-05
581323.52	4199847.18	2683.28763	0.04094	4.401E-04	5.554E-07	4.406E-04	6.861E-05	5.554E-07	6.917E-05
581375.91	4199891.4	2678.69883	0.04121	4.393E-04	5.590E-07	4.399E-04	6.850E-05	5.590E-07	6.905E-05
581562.36	4199978.2	2673.71597	0.04296	4.385E-04	5.828E-07	4.391E-04	6.837E-05	5.828E-07	6.895E-05
581242.45	4199753.17	2673.02587	0.04072	4.384E-04	5.524E-07	4.390E-04	6.835E-05	5.524E-07	6.890E-05
581263.03	4199793.57	2639.79671	0.03997	4.330E-04	5.422E-07	4.335E-04	6.750E-05	5.422E-07	6.804E-05
581537.85	4199981.37	2626.11365	0.04211	4.307E-04	5.712E-07	4.313E-04	6.715E-05	5.712E-07	6.772E-05
581408.98	4199930.32	2609.96894	0.04065	4.281E-04	5.514E-07	4.286E-04	6.674E-05	5.514E-07	6.729E-05
581301.06	4199848.65	2604.17752	0.03991	4.271E-04	5.414E-07	4.277E-04	6.659E-05	5.414E-07	6.713E-05
581516.98	4199980.01	2601.87135	0.04159	4.267E-04	5.642E-07	4.273E-04	6.653E-05	5.642E-07	6.709E-05
581375.36	4199912.7	2596.80354	0.04022	4.259E-04	5.456E-07	4.264E-04	6.640E-05	5.456E-07	6.695E-05
581338.22	4199891.64	2573.2301	0.03968	4.220E-04	5.383E-07	4.226E-04	6.580E-05	5.383E-07	6.634E-05
581492.7	4199980.24	2564.51116	0.04088	4.206E-04	5.545E-07	4.212E-04	6.558E-05	5.545E-07	6.613E-05
581242.54	4199793.41	2562.19341	0.0383	4.202E-04	5.195E-07	4.207E-04	6.552E-05	5.195E-07	6.604E-05
581473.65	4199978.65	2541.25163	0.04041	4.168E-04	5.482E-07	4.173E-04	6.498E-05	5.482E-07	6.553E-05
581322.93	4199889.69	2536.5316	0.03915	4.160E-04	5.311E-07	4.165E-04	6.486E-05	5.311E-07	6.539E-05
581278.28	4199849.14	2527.687	0.03894	4.146E-04	5.282E-07	4.151E-04	6.463E-05	5.282E-07	6.516E-05
581371.49	4199931.51	2518.78283	0.03925	4.131E-04	5.324E-07	4.136E-04	6.441E-05	5.324E-07	6.494E-05
581337.25	4199911.82	2501.76137	0.0388	4.103E-04	5.263E-07	4.108E-04	6.397E-05	5.263E-07	6.450E-05
581303.72	4199889.36	2482.50988	0.0384	4.072E-04	5.209E-07	4.077E-04	6.348E-05	5.209E-07	6.400E-05
581246.47	4199838	2454.33277	0.03673	4.025E-04	4.982E-07	4.030E-04	6.276E-05	4.982E-07	6.326E-05
581268.77	4199871.27	2432.7778	0.03774	3.990E-04	5.119E-07	3.995E-04	6.221E-05	5.119E-07	6.272E-05
581335.29	4199934.6	2421.80139	0.03781	3.972E-04	5.129E-07	3.977E-04	6.193E-05	5.129E-07	6.244E-05
581401.95	4199980.01	2411.00066	0.03818	3.954E-04	5.179E-07	3.959E-04	6.165E-05	5.179E-07	6.217E-05
581303.4	4199915.73	2400.00887	0.03741	3.936E-04	5.075E-07	3.941E-04	6.137E-05	5.075E-07	6.188E-05
581266.31	4199890.62	2370.96148	0.03695	3.889E-04	5.012E-07	3.894E-04	6.063E-05	5.012E-07	6.113E-05
581303.4	4199932.97	2348.21029	0.03677	3.851E-04	4.988E-07	3.856E-04	6.004E-05	4.988E-07	6.054E-05
581352.04	4199977.97	2319.50229	0.03671	3.804E-04	4.980E-07	3.809E-04	5.931E-05	4.980E-07	5.981E-05
581262.7	4199911.27	2304.34678	0.03609	3.779E-04	4.896E-07	3.784E-04	5.892E-05	4.896E-07	5.941E-05
581323.19	4199978.15	2259.66071	0.03577	3.706E-04	4.852E-07	3.711E-04	5.778E-05	4.852E-07	5.827E-05
581262.54	4199928.16	2258.72379	0.03551	3.705E-04	4.817E-07	3.709E-04	5.776E-05	4.817E-07	5.824E-05
581287.95	4199974.38	2194.82598	0.03478	3.600E-04	4.718E-07	3.604E-04	5.612E-05	4.718E-07	5.659E-05
581262.7	4199971.92	2145.4617	0.03408	3.519E-04	4.623E-07	3.523E-04	5.486E-05	4.623E-07	5.532E-05
CONCUNIT ug/	m^3								
DEPUNIT g/m^	2								

Unmitigated and Tier IV Mitigated PM2.5 Total (Exhaust + Fugitive Dust)

Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/sec): 4.523E-07
Tier IV Interim Annual Average Onsite Total PM2.5 Emission Rate (grams/m2/sec): 2.415E-07
Annual Average Offsite Total PM2.5 Emission Rate (grams/sec): 1.658E-04
MIR UTM = (582116.96, 4198962.41)

							Tier IV Interim Mitigated		
X	Y	Onsite Unit Emissions	Offsite Unit Emissions	Onsite Annual DPM Exhaust w/Actual Emissions	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)	Onsite Annual DPM Exhaust w/Actual Emissions	Offsite Annual DPM Exhaust w/Actual Emissions (ug/m3)	Total DPM (ug/m3)
582116.96	4198962.41	712059.25	2.57903	3.221E-01	4.277E-04	3.225E-01	1.720E-01	4.277E-04	1.724E-01
582106.21	4198934.93	705882.1743	3.36858	3.193E-01	5.587E-04	3.199E-01	1.705E-01	5.587E-04	1.711E-01
582128.12	4198976.75	672916.0803	2.24198	3.044E-01	3.718E-04	3.048E-01	1.625E-01	3.718E-04	1.629E-01
582134.71	4198990.12	650745.8291	1.9933	2.944E-01	3.306E-04	2.947E-01	1.572E-01	3.306E-04	1.575E-01
581961.42	4199093.2	640005.5652	1.1694	2.895E-01	1.939E-04	2.897E-01	1.546E-01	1.939E-04	1.548E-01
582117.36	4198932.93	634742.0126	3.34173	2.871E-01	5.542E-04	2.877E-01	1.533E-01	5.542E-04	1.539E-01
582072.55	4198865.81	621447.1908	9.89488	2.811E-01	1.641E-03	2.827E-01	1.501E-01	1.641E-03	1.518E-01
582056.81	4198850.27	617349.2675	16.81286	2.792E-01	2.788E-03	2.820E-01	1.491E-01	2.788E-03	1.519E-01
582142.46	4199000.26	609302.1866	1.81844	2.756E-01	3.016E-04	2.759E-01	1.472E-01	3.016E-04	1.475E-01
582125.44	4198926.15	577770.0205	3.50924	2.613E-01	5.820E-04	2.619E-01	1.396E-01	5.820E-04	1.401E-01
582068.76	4198847.88	550765.7474	17.15201	2.491E-01	2.845E-03	2.520E-01	1.330E-01	2.845E-03	1.359E-01
581980.59	4199093.2	532377.6618	1.13985	2.408E-01	1.890E-04	2.410E-01	1.286E-01	1.890E-04	1.288E-01
582155.01	4199019.58	530987.0982	1.5454	2.402E-01	2.563E-04	2.404E-01	1.283E-01	2.563E-04	1.285E-01
581961.42	4199106.81	527786.3288	1.00406	2.387E-01	1.665E-04	2.389E-01	1.275E-01	1.665E-04	1.277E-01
582088.08	4198858.24	521131.5673	11.24567	2.357E-01	1.865E-03	2.376E-01	1.259E-01	1.865E-03	1.277E-01
582143.45	4198921.18	493602.9311	3.56494	2.233E-01	5.912E-04	2.239E-01	1.192E-01	5.912E-04	1.198E-01
581999.76	4199093.2	468487.4847	1.1094	2.119E-01	1.840E-04	2.121E-01	1.132E-01	1.840E-04	1.133E-01
582135.13	4198890.23	457346.4279	5.28423	2.069E-01	8.764E-04	2.077E-01	1.105E-01	8.764E-04	1.113E-01
581980.59	4199106.81	439380.5445	0.98756	1.987E-01	1.638E-04	1.989E-01	1.061E-01	1.638E-04	1.063E-01
582172.73	4198955.64	437434.1984	2.46187	1.979E-01	4.083E-04	1.983E-01	1.057E-01	4.083E-04	1.061E-01
582018.93	4199093.2	425858.5906	1.07905	1.926E-01	1.790E-04	1.928E-01	1.029E-01	1.790E-04	1.030E-01
582166.56	4198925.56	424308.5325	3.28029	1.919E-01	5.440E-04	1.925E-01	1.025E-01	5.440E-04	1.030E-01
582182.1	4198975.76	416716.1061	2.06206	1.885E-01	3.420E-04	1.888E-01	1.007E-01	3.420E-04	1.010E-01
581961.42	4199120.42	416705.8703	0.87561	1.885E-01	1.452E-04	1.886E-01	1.007E-01	1.452E-04	1.008E-01
582136.15	4198871.65	412006.2909	7.12863	1.864E-01	1.182E-03	1.875E-01	9.952E-02	1.182E-03	1.007E-01
582047.05	4198810.5	398585.379	17.37809	1.803E-01	2.882E-03	1.832E-01	9.628E-02	2.882E-03	9.916E-02
582038.1	4199093.2	398160.1669	1.05135	1.801E-01	1.744E-04	1.803E-01	9.618E-02	1.744E-04	9.635E-02
581962.18	4198819.02	396918.4231	12.44667	1.795E-01	2.064E-03	1.816E-01	9.588E-02	2.064E-03	9.794E-02
582182.49	4199026.35	390001.0678	1.41973	1.764E-01	2.355E-04	1.766E-01	9.420E-02	2.355E-04	9.444E-02
581914.94	4198831.39	389362.4021	12.70718	1.761E-01	2.107E-03	1.782E-01	9.405E-02	2.107E-03	9.616E-02
581999.76	4199106.81	384375.4516	0.9693	1.739E-01	1.608E-04	1.740E-01	9.285E-02	1.608E-04	9.301E-02
581891.05	4198837.87	381103.3843	10.9214	1.724E-01	1.811E-03	1.742E-01	9.206E-02	1.811E-03	9.387E-02
582134.88	4198854.84	377373.1546	10.2798	1.707E-01	1.705E-03	1.724E-01	9.115E-02	1.705E-03	9.286E-02
582057.27	4199093.2	377425.6093	1.02603	1.707E-01	1.702E-04	1.709E-01	9.117E-02	1.702E-04	9.134E-02
582076.44	4199093.2	358520.3554	1.00275	1.622E-01	1.663E-04	1.623E-01	8.660E-02	1.663E-04	8.677E-02
581980.59	4199120.42	356697.6644	0.8673	1.613E-01	1.438E-04	1.615E-01	8.616E-02	1.438E-04	8.630E-02
582018.93	4199106.81	347892.8364	0.95072	1.574E-01	1.577E-04	1.575E-01	8.403E-02	1.577E-04	8.419E-02
582205.4	4198966.4	347049.0627	2.16693	1.570E-01	3.594E-04	1.573E-01	8.383E-02	3.594E-04	8.419E-02
582202.81	4198943.09	344289.7674	2.65505	1.557E-01	4.403E-04	1.562E-01	8.316E-02	4.403E-04	8.360E-02
582206.99	4198982.33	342264.687	1.9051	1.548E-01	3.160E-04	1.551E-01	8.267E-02	3.160E-04	8.299E-02
582095.61	4199093.2	336852.8284	0.98077	1.524E-01	1.627E-04	1.525E-01	8.137E-02	1.627E-04	8.153E-02
582158.3	4198856.12	333979.6574	9.33056	1.511E-01	1.547E-03	1.526E-01	8.067E-02	1.547E-03	8.222E-02
582198.23	4199028.54	333902.8799	1.37489	1.510E-01	2.280E-04	1.513E-01	8.065E-02	2.280E-04	8.088E-02
582190.67	4198892.48	327068.5475	4.69001	1.479E-01	7.778E-04	1.487E-01	7.900E-02	7.778E-04	7.978E-02
581961.42	4199134.03	324272.8122	0.77373	1.467E-01	1.283E-04	1.468E-01	7.833E-02	1.283E-04	7.846E-02
582038.1	4199106.81	323667.6774	0.9334	1.464E-01	1.548E-04	1.466E-01	7.818E-02	1.548E-04	7.834E-02
581865.53	4198840.15	322579.701	5.3417	1.459E-01	8.859E-04	1.468E-01	7.792E-02	8.859E-04	7.880E-02
581999.76	4199120.42	316174.6906	0.8565	1.430E-01	1.420E-04	1.432E-01	7.637E-02	1.420E-04	7.651E-02
582212.57	4198924.77	313145.2739	3.1481	1.416E-01	5.221E-04	1.422E-01	7.564E-02	5.221E-04	7.616E-02
582114.78	4199093.2	312072.6835	0.96042	1.412E-01	1.593E-04	1.413E-01	7.538E-02	1.593E-04	7.554E-02
582190.07	4198875.41	307459.6528	6.0572	1.391E-01	1.005E-03	1.401E-01	7.427E-02	1.005E-03	7.527E-02
582057.27	4199106.81	305364.1166	0.91717	1.381E-01	1.521E-04	1.383E-01	7.376E-02	1.521E-04	7.391E-02
582177.65	4198856.63	302527.4012	8.85734	1.368E-01	1.469E-03	1.383E-01	7.308E-02	1.469E-03	7.454E-02
582076.44	4199106.81	289189.7499	0.90176	1.308E-01	1.496E-04	1.310E-01	6.985E-02	1.496E-04	7.000E-02
582018.93	4199120.42	287822.4173	0.84514	1.302E-01	1.402E-04	1.303E-01	6.952E-02	1.402E-04	6.966E-02
581980.59	4199134.03	287204.6388	0.77046	1.299E-01	1.278E-04	1.300E-01	6.937E-02	1.278E-04	6.950E-02
582040.66	4198789.3	282496.8594	7.88546	1.278E-01	1.308E-03	1.291E-01	6.824E-02	1.308E-03	6.954E-02
582193.44	4198857.14	279667.3767	8.54799	1.265E-01	1.418E-03	1.279E-01	6.755E-02	1.418E-03	6.897E-02
582224.32	4199026.15	272073.3369	1.36584	1.231E-01	2.265E-04	1.233E-01	6.572E-02	2.265E-04	6.595E-02
582095.61	4199106.81	271883.94	0.88664	1.230E-01	1.470E-04	1.231E-01	6.567E-02	1.470E-04	6.582E-02
582229.9	4198901.66	269362.1699	4.06551	1.218E-01	6.743E-04	1.225E-01	6.506E-02	6.743E-04	6.574E-02
582038.1	4199120.42	268177.535	0.83445	1.213E-01	1.384E-04	1.214E-01	6.478E-02	1.384E-04	6.492E-02
581841.92	4198842.06	262798.6494	2.77324	1.189E-01	4.599E-04	1.193E-01	6.348E-02	4.599E-04	6.394E-02
582241.45	4198921.98	262286.2561	3.20022	1.186E-01	5.307E-04	1.192E-01	6.335E-02	5.307E-04	6.389E-02
581852.15	4199116.71	262287.5198	0.71507	1.186E-01	1.186E-04	1.188E-01	6.336E-02	1.186E-04	6.347E-02
582227.31	4198884.53	260629.2797	5.14461	1.179E-01	8.532E-04	1.187E-01	6.295E-02	8.532E-04	6.381E-02
581999.76	4199134.03	259815.8791	0.76449	1.175E-01	1.268E-04	1.176E-01	6.276E-02	1.268E-04	6.289E-02
582131.18	4198799.38	255964.0245	19.25391	1.158E-01	3.193E-03	1.190E-01	6.183E-02	3.193E-03	6.502E-02
581961.42	4199147.64	254876.9752	0.69099	1.153E-01	1.146E-04	1.154E-01	6.157E-02	1.146E-04	6.168E-02
582114.78	4199106.81	253219.0777	0.87218	1.145E-01	1.446E-04	1.147E-01	6.116E-02	1.446E-04	6.131E-02
582057.27	4199120.42	252954.6609	0.82427	1.144E-01	1.367E-04	1.146E-01	6.110E-02	1.367E-04	6.124E-02
582250.61	4198981.93	251254.5384	1.85256	1.137E-01	3.072E-04	1.140E-01	6.069E-02	3.072E-04	6.100E-02
582254	4198965	249537.0259	2.12399	1.129E-01	3.523E-04	1.132E-01	6.028E-02	3.523E-04	6.063E-02
582255.59	4198940.9	246092.3511	2.63324	1.113E-01	4.367E-04	1.118E-01	5.944E-02	4.367E-04	5.988E-02
582230.9	4198868.6	243275.1275	6.71864	1.100E-01	1.114E-03	1.112E-01	5.876E-02	1.114E-03	5.988E-02
582251.21	4198902.86	240606.973	4.00375	1.088E-01	6.640E-04	1.095E-01	5.812E-02	6.640E-04	5.878E-02
581951.29	4198798.36	240341.8985	5.53985	1.087E-01	9.188E-04	1.096E-01	5.805E-02	9.188E-04	5.897E-02
582076.44	4199120.42	239440.5182	0.81435	1.083E-01	1.351E-04	1.084E-01	5.784E-02	1.351E-04	5.797E-02
582018.93	4199134.03	239233.1298	0.75769	1.082E-01	1.257E-04	1.083E-01	5.779E-02	1.257E-04	5.791E-02
581840.53	4199116.71	237767.4642	0.67427	1.075E-01	1.118E-04	1.077E-01	5.743E-02	1.118E-04	5.754E-02
582207.19	4199070.57	236312.0193	1.0324	1.069E-01	1.712E-04	1.071E-01	5.708E-02	1.712E-04	5.725E-02
581980.59	4199147.64	231694.9105	0.69105	1.048E-01	1.146E-04	1.049E-01	5.597E-02	1.146E-04	5.608E-02
582245.44	4199029.54	230308.1118	1.31526	1.042E-01	2.181E-04	1.044E-01	5.563E-02	2.181E-04	5.585E-02
582246.43	4198870.99	227455.3336	6.48378	1.029E-01	1.075E-03	1.040E-01	5.494E-02	1.075E-03	5.602E-02
582095.61	4199120.42	225525.3417	0.80423	1.020E-01	1.334E-04	1.021E-01	5.448E-02	1.334E-04	5.461E-02
582228.31	4198843.3	224126.0607	12.12017	1.014E-01	2.010E-03	1.034E-01	5.414E-02	2.010E-03	5.615E-02
582038.1	4199134.03	224106.8757	0.75122	1.014E-01	1.246E-04	1.015E-01	5.413E-02	1.246E-04	5.426E-02
582162.52	4198792.6	219040.7863	16.5484	9.908E-02	2.745E-03	1.018E-01	5.291E-02	2.745E-03	5.565E-02
582030.7	4198772.45	215725.0649	4.96558	9.758E-02	8.235E-04	9.840E-02	5.211E-02	8.235E-04	5.293E-02
582195.44	4199088.69	215470.109	0.92732	9.746E-02	1.538E-04	9.762E-02	5.205E-02	1.538E-04	5.220E-02
581999.76	4199147.64	213836.8406	0.68832	9.673E-02	1.142E-04	9.684E-02	5.165E-02	1.142E-04	5.177E-02
581828.91	4199116.71	213162.2553	0.63608	9.642E-02	1.055E-04	9.653E-02	5.149E-02	1.055E-04	5.159E-02
582057.27	4199134.03	211937.0841	0.745	9.587E-02	1.236E-04	9.599E-02	5.119E-02	1.236E-04	5.132E-02
582085.61	4198769.38	211488.6719	6.00879	9.566E-02	9.965E-04	9.666E-02	5.108E-02	9.965E-04	5.208E-02
582114.78	4199120.42	211207.3419	0.7942	9.554E-02	1.317E-04	9.567E-02	5.102E-02	1.317E-04	5.115E-02
582246.23	4198845.69	209269.8294	11.63954	9.466E-02	1.930E-03	9.659E-02	5.055E-02	1.930E-03	5.248E-02
582282.28	4198923.37	209474.6475	3.16496	9.475E-02	5.249E-04	9.528E-02	5.060E-02	5.249E-04	5.112E-02
582282.88	4198965.6	209390.3595	2.099	9.471E-02	3.481E-04	9.506E-02	5.058E-02	3.481E-04	5.093E-02
582279.7	4198984.12	208841.0274	1.80252	9.447E-02	2.989E-04	9.476E-02	5.045E-02	2.989E-04	5.074E-02
582284.48	4198944.09	208769.9777	2.55247	9.443E-02	4.233E-04	9.486E-02	5.043E-02	4.233E-04	5.085E-02
582264.56	4199028.54	203804.1953	1.31004	9.219E-02	2.173E-04	9.240E-02	4.923E-02	2.173E-04	4.945E-02
582285.07	4198902.66	201945.9798	4.09	9.135E-02	6.783E-04	9.202E-02	4.878E-02	6.783E-04	4.946E-02
582183.8	4198789.79	201011.518	15.72029	9.092E-02	2.607E-03	9.353E-02	4.855E-02	2.607E-03	5.116E-02
582076.44	4199134.03	201111.8209	0.73881	9.097E-02	1.225E-04	9.109E-02	4.858E-02	1.225E-04	4.870E-02
582018.93	4199147.64	199508.4617	0.68452	9.024E-02	1.135E-04	9.036E-02	4.819E-02	1.135E-04	4.830E-02
582154.56	4198776.7	198947.3474	9.31099	8.999E-02	1.544E-03	9.153E-02	4.806E-02	1.544E-03	4.960E-02
582237.27	4199070.77	193884.6843	1.01073	8.770E-02	1.676E-04	8.787E-02	4.683E-02	1.676E-04	4.700E-02
581820.59	4198842.82	193395.3653	1.70626	8.748E-02	2.830E-04	8.776E-02	4.671E-02	2.830E-04	4.700E-02
582282.09	4198866.41	190512.2528	7.50107	8.617E-02	1.244E-03	8.742E-02	4.602E-02	1.244E-03	4.726E-02
582095.61	4199134.03	190111.3696	0.73221	8.599E-02	1.214E-04	8.611E-02	4.592E-02	1.214E-04	4.604E-02
581817.29	4199116.71	188899.4644	0.59848	8.545E-02	9.926E-05	8.554E-02	4.563E-02	9.926E-05	4.573E-02

582038.1	4199147.64	188487.8638	0.68079	8.526E-02	1.129E-04	8.537E-02	4.553E-02	1.129E-04	4.564E-02
582281.69	4199026.55	184808.3268	1.31746	8.359E-02	2.185E-04	8.381E-02	4.464E-02	2.185E-04	4.486E-02
582281.49	4198845.09	180109.687	13.1704	8.147E-02	2.184E-03	8.365E-02	4.351E-02	2.184E-03	4.569E-02
582057.27	4199147.64	179209.4143	0.67716	8.106E-02	1.123E-04	8.117E-02	4.329E-02	1.123E-04	4.340E-02
582114.78	4199134.03	178983.4389	0.72544	8.096E-02	1.203E-04	8.108E-02	4.323E-02	1.203E-04	4.335E-02
582072.84	4198754.32	178364.912	4.19791	8.068E-02	6.962E-04	8.138E-02	4.308E-02	6.962E-04	4.378E-02
582076.44	4199147.64	170715.5147	0.67346	7.722E-02	1.117E-04	7.733E-02	4.124E-02	1.117E-04	4.135E-02
581852.15	4199139.71	170648.2517	0.58714	7.719E-02	9.738E-05	7.729E-02	4.122E-02	9.738E-05	4.132E-02
582023.81	4198756.61	170464.2019	3.48082	7.711E-02	5.773E-04	7.768E-02	4.118E-02	5.773E-04	4.175E-02
582245.07	4198793.53	168997.4134	17.50002	7.644E-02	2.902E-03	7.935E-02	4.082E-02	2.902E-03	4.372E-02
582321.32	4198901.66	169231.5234	4.34173	7.655E-02	7.201E-04	7.727E-02	4.088E-02	7.201E-04	4.160E-02
582324.71	4198924.57	168756.918	3.21175	7.633E-02	5.327E-04	7.687E-02	4.076E-02	5.327E-04	4.130E-02
582324.51	4198944.88	168735.3257	2.5654	7.632E-02	4.255E-04	7.675E-02	4.076E-02	4.255E-04	4.118E-02
582324.91	4198964.4	166305.1459	2.12674	7.523E-02	3.527E-04	7.558E-02	4.017E-02	3.527E-04	4.052E-02
581805.67	4199116.71	165844.905	0.56035	7.502E-02	9.293E-05	7.511E-02	4.006E-02	9.293E-05	4.015E-02
581936.16	4198781.56	163616.1449	3.24024	7.401E-02	5.374E-04	7.455E-02	3.952E-02	5.374E-04	4.006E-02
581897.6	4198797.8	161986.0986	3.23281	7.327E-02	5.362E-04	7.381E-02	3.913E-02	5.362E-04	3.966E-02
582095.61	4199147.64	162076.9392	0.6693	7.331E-02	1.110E-04	7.342E-02	3.915E-02	1.110E-04	3.926E-02
582250.61	4199086.9	160794.3322	0.90812	7.273E-02	1.506E-04	7.288E-02	3.884E-02	1.506E-04	3.899E-02
582333.87	4198901.06	159590.409	4.47456	7.219E-02	7.421E-04	7.293E-02	3.855E-02	7.421E-04	3.929E-02
582154.8	4198748.87	159555.391	4.96873	7.217E-02	8.241E-04	7.300E-02	3.854E-02	8.241E-04	3.936E-02
582329.49	4198986.12	157654.8394	1.76407	7.131E-02	2.926E-04	7.160E-02	3.808E-02	2.926E-04	3.837E-02
582322.52	4199007.83	156113.9457	1.48962	7.062E-02	2.470E-04	7.086E-02	3.771E-02	2.470E-04	3.796E-02
582195.72	4198754.95	154929.2745	6.04447	7.008E-02	1.002E-03	7.108E-02	3.742E-02	1.002E-03	3.843E-02
582285.67	4199062.4	154530.4319	1.03874	6.990E-02	1.723E-04	7.007E-02	3.733E-02	1.723E-04	3.750E-02
582114.78	4199147.64	153349.2864	0.66484	6.936E-02	1.103E-04	6.947E-02	3.704E-02	1.103E-04	3.715E-02
582214.56	4199115.38	152287.222	0.77913	6.888E-02	1.292E-04	6.901E-02	3.678E-02	1.292E-04	3.691E-02
582242.73	4198770.15	151307.7997	8.58585	6.844E-02	1.424E-03	6.987E-02	3.655E-02	1.424E-03	3.797E-02
581840.53	4199139.71	151378.0324	0.56	6.847E-02	9.287E-05	6.857E-02	3.657E-02	9.287E-05	3.666E-02
582344.43	4198888.52	150358.8621	5.66894	6.801E-02	9.402E-04	6.895E-02	3.632E-02	9.402E-04	3.726E-02
582321.92	4199029.74	146718.2495	1.27204	6.637E-02	2.110E-04	6.658E-02	3.544E-02	2.110E-04	3.565E-02
582252.02	4199100.18	145439.3917	0.83784	6.579E-02	1.390E-04	6.593E-02	3.513E-02	1.390E-04	3.527E-02
581794.05	4199116.71	143161.478	0.52398	6.476E-02	8.690E-05	6.484E-02	3.458E-02	8.690E-05	3.467E-02
582058.54	4198735.67	142008.2394	2.879	6.423E-02	4.775E-04	6.471E-02	3.430E-02	4.775E-04	3.478E-02
581871.63	4198803.21	142003.646	2.61727	6.423E-02	4.341E-04	6.467E-02	3.430E-02	4.341E-04	3.473E-02
582166.04	4198733.63	139593.3756	3.91505	6.314E-02	6.493E-04	6.379E-02	3.372E-02	6.493E-04	3.437E-02
582287.07	4199082.32	137700.2586	0.91758	6.229E-02	1.522E-04	6.244E-02	3.326E-02	1.522E-04	3.341E-02
582134.89	4198728.01	136683.0656	3.32656	6.183E-02	5.517E-04	6.238E-02	3.302E-02	5.517E-04	3.357E-02
581828.91	4199139.71	135161.6859	0.53443	6.114E-02	8.863E-05	6.123E-02	3.265E-02	8.863E-05	3.274E-02
582324.71	4199048.46	134804.1165	1.11862	6.098E-02	1.855E-04	6.116E-02	3.256E-02	1.855E-04	3.275E-02
582016.4	4198739.5	133734.332	2.50821	6.049E-02	4.160E-04	6.091E-02	3.230E-02	4.160E-04	3.272E-02
582377.29	4198942.89	131400.8654	2.71683	5.944E-02	4.506E-04	5.989E-02	3.174E-02	4.506E-04	3.219E-02
582380.08	4198923.17	130739.1378	3.49208	5.914E-02	5.792E-04	5.972E-02	3.158E-02	5.792E-04	3.216E-02
582377.29	4198961.42	129226.0805	2.2242	5.845E-02	3.689E-04	5.882E-02	3.121E-02	3.689E-04	3.158E-02
582197.96	4198728.27	129013.9319	3.80463	5.836E-02	6.310E-04	5.899E-02	3.116E-02	6.310E-04	3.179E-02
582224.32	4199129.93	128784.2317	0.71231	5.825E-02	1.181E-04	5.837E-02	3.111E-02	1.181E-04	3.123E-02
582255.59	4199115.19	127989.0286	0.76595	5.789E-02	1.270E-04	5.802E-02	3.092E-02	1.270E-04	3.104E-02
582239.22	4198737.41	127442.4839	4.55814	5.765E-02	7.560E-04	5.840E-02	3.078E-02	7.560E-04	3.154E-02
582091.3	4199172.08	124568.3254	0.57515	5.635E-02	9.539E-05	5.644E-02	3.009E-02	9.539E-05	3.018E-02
582371.72	4199002.45	123906.9612	1.54059	5.605E-02	2.555E-04	5.630E-02	2.993E-02	2.555E-04	3.019E-02
581852.15	4199162.71	123928.2725	0.49564	5.606E-02	8.220E-05	5.614E-02	2.993E-02	8.220E-05	3.002E-02
581782.43	4199116.71	121795.4168	0.48913	5.509E-02	8.112E-05	5.517E-02	2.942E-02	8.112E-05	2.950E-02
582322.72	4199074.15	121617.7031	0.94975	5.501E-02	1.575E-04	5.517E-02	2.938E-02	1.575E-04	2.953E-02
581817.29	4199139.71	121050.718	0.50884	5.476E-02	8.439E-05	5.484E-02	2.924E-02	8.439E-05	2.932E-02
581843.82	4198809.68	120408.8645	1.89111	5.446E-02	3.136E-04	5.478E-02	2.908E-02	3.136E-04	2.940E-02
582368.73	4199020.97	119976.9633	1.33663	5.427E-02	2.217E-04	5.449E-02	2.898E-02	2.217E-04	2.920E-02
582263.08	4198732.96	118693.1	4.26897	5.369E-02	7.080E-04	5.440E-02	2.867E-02	7.080E-04	2.938E-02
582117.7	4199172.08	117565.1024	0.57321	5.318E-02	9.507E-05	5.327E-02	2.840E-02	9.507E-05	2.849E-02
582287.66	4199111	115328.5804	0.7742	5.217E-02	1.284E-04	5.230E-02	2.786E-02	1.284E-04	2.799E-02
582117.27	4198707.84	114534.8312	2.37848	5.181E-02	3.945E-04	5.220E-02	2.767E-02	3.945E-04	2.806E-02
582293.95	4198732.73	111294.5855	4.20712	5.034E-02	6.977E-04	5.104E-02	2.688E-02	6.977E-04	2.758E-02
582048.58	4198714.99	111217.3459	2.04909	5.031E-02	3.398E-04	5.065E-02	2.686E-02	3.398E-04	2.720E-02
582371.72	4199043.28	110602.3504	1.13878	5.003E-02	1.889E-04	5.022E-02	2.672E-02	1.889E-04	2.690E-02
582323.32	4199092.48	110592.3514	0.84959	5.002E-02	1.409E-04	5.017E-02	2.671E-02	1.409E-04	2.685E-02
582144.1	4199172.08	110550.8612	0.57111	5.001E-02	9.472E-05	5.010E-02	2.670E-02	9.472E-05	2.680E-02
582006.7	4198726.23	110242.1783	1.96646	4.987E-02	3.261E-04	5.019E-02	2.663E-02	3.261E-04	2.696E-02
581840.53	4199162.71	109819.7719	0.47626	4.967E-02	7.899E-05	4.975E-02	2.653E-02	7.899E-05	2.661E-02
582408.17	4198983.33	109258.3567	1.80725	4.942E-02	2.997E-04	4.972E-02	2.639E-02	2.997E-04	2.669E-02
582418.53	4198950.66	109190.8797	2.54329	4.939E-02	4.218E-04	4.981E-02	2.637E-02	4.218E-04	2.680E-02
581805.67	4199139.71	108291.9996	0.4831	4.898E-02	8.012E-05	4.906E-02	2.616E-02	8.012E-05	2.624E-02
581925.09	4198758.68	107850.9811	1.9937	4.878E-02	3.307E-04	4.912E-02	2.605E-02	3.307E-04	2.638E-02
582427.69	4198910.23	107361.5674	4.62474	4.856E-02	7.670E-04	4.933E-02	2.593E-02	7.670E-04	2.670E-02
582373.7	4198769.21	104915.6845	6.30847	4.746E-02	1.046E-03	4.850E-02	2.534E-02	1.046E-03	2.639E-02
582325.05	4198733.66	104459.7186	4.14501	4.725E-02	6.874E-04	4.794E-02	2.523E-02	6.874E-04	2.592E-02
582407.17	4199008.22	104503.6652	1.4578	4.727E-02	2.418E-04	4.751E-02	2.524E-02	2.418E-04	2.548E-02
581792.02	4198847.39	104013.0848	1.10951	4.705E-02	1.840E-04	4.723E-02	2.512E-02	1.840E-04	2.531E-02
582372.12	4199060.61	103838.006	1.01389	4.697E-02	1.682E-04	4.714E-02	2.508E-02	1.682E-04	2.525E-02
582170.5	4199172.08	103608.1863	0.56871	4.687E-02	9.432E-05	4.696E-02	2.503E-02	9.432E-05	2.512E-02
582164	4198693.79	103281.9147	2.23941	4.672E-02	3.714E-04	4.709E-02	2.495E-02	3.714E-04	2.532E-02
582270.93	4199137.1	102966.1334	0.67244	4.657E-02	1.115E-04	4.669E-02	2.487E-02	1.115E-04	2.498E-02
582434.86	4198946.68	102541.6484	2.68454	4.638E-02	4.452E-04	4.683E-02	2.477E-02	4.452E-04	2.521E-02
582237.07	4199152.23	102554.0556	0.62542	4.639E-02	1.037E-04	4.649E-02	2.477E-02	1.037E-04	2.488E-02
582187.49	4198692.77	101954.9896	2.31554	4.612E-02	3.840E-04	4.650E-02	2.463E-02	3.840E-04	2.501E-02
581770.81	4199116.71	101869.8576	0.45797	4.608E-02	7.595E-05	4.615E-02	2.461E-02	7.595E-05	2.468E-02
582286.87	4199130.52	101828.5999	0.69333	4.606E-02	1.150E-04	4.618E-02	2.460E-02	1.150E-04	2.471E-02
582444.02	4198909.43	100750.7194	4.8157	4.557E-02	7.987E-04	4.637E-02	2.434E-02	7.987E-04	2.513E-02
582360.83	4198740.21	98622.32268	4.29626	4.461E-02	7.125E-04	4.532E-02	2.382E-02	7.125E-04	2.453E-02
581828.91	4199162.71	98617.1648	0.458	4.461E-02	7.596E-05	4.468E-02	2.382E-02	7.596E-05	2.390E-02
582408.57	4199030.33	98302.23213	1.22816	4.447E-02	2.037E-04	4.467E-02	2.374E-02	2.037E-04	2.395E-02
582243.82	4198693.19	97946.67739	2.50562	4.430E-02	4.156E-04	4.472E-02	2.366E-02	4.156E-04	2.407E-02
582368.73	4199081.32	96857.55929	0.8905	4.381E-02	1.477E-04	4.396E-02	2.340E-02	1.477E-04	2.354E-02
582323.52	4199116.78	96826.13951	0.73776	4.380E-02	1.224E-04	4.392E-02	2.339E-02	1.224E-04	2.351E-02
581794.05	4199139.71	96339.47602	0.45827	4.358E-02	7.600E-05	4.365E-02	2.327E-02	7.600E-05	2.335E-02
582000.57	4198716.27	96197.43071	1.6733	4.351E-02	2.775E-04	4.379E-02	2.324E-02	2.775E-04	2.351E-02
582456.17	4198951.86	93811.56367	2.51486	4.243E-02	4.171E-04	4.285E-02	2.266E-02	4.171E-04	2.308E-02
581852.15	4199185.71	93325.07684	0.42605	4.221E-02	7.066E-05	4.228E-02	2.254E-02	7.066E-05	2.261E-02
582273.18	4198689.63	92876.87416	2.44902	4.201E-02	4.062E-04	4.242E-02	2.243E-02	4.062E-04	2.284E-02
582409.36	4199048.86	92923.5526	1.07592	4.203E-02	1.784E-04	4.221E-02	2.245E-02	1.784E-04	2.262E-02
582091.3	4199200.93	92633.45535	0.48836	4.190E-02	8.099E-05	4.198E-02	2.238E-02	8.099E-05	2.246E-02
582469.91	4198913.02	91318.09686	4.58055	4.131E-02	7.597E-04	4.207E-02	2.206E-02	7.597E-04	2.282E-02
582103.48	4198683.32	91434.32813	1.69066	4.136E-02	2.804E-04	4.164E-02	2.209E-02	2.804E-04	2.237E-02
582454.98	4198982.7	90440.54137	1.79045	4.091E-02	2.969E-04	4.121E-02	2.185E-02	2.969E-04	2.214E-02
582414.64	4198754.36	90084.57337	4.62007	4.075E-02	7.662E-04	4.151E-02	2.176E-02	7.662E-04	2.253E-02
581817.29	4199162.71	89210.20791	0.43961	4.035E-02	7.291E-05	4.043E-02	2.155E-02	7.291E-05	2.162E-02
582117.7	4199200.93	88758.80358	0.48834	4.015E-02	8.099E-05	4.023E-02	2.144E-02	8.099E-05	2.152E-02
582249.62	4199166.77	88223.88475	0.57596	3.991E-02	9.552E-05	4.000E-02	2.131E-02	9.552E-05	2.141E-02
582322.92	4199133.91	87891.03959	0.67071	3.976E-02	1.112E-04	3.987E-02	2.123E-02	1.112E-04	2.134E-02
582369.93	4199103.43	87387.75722	0.77934	3.953E-02	1.293E-04	3.966E-02	2.111E-02	1.293E-04	2.124E-02
582299.62	4198683.62	87122.12631	2.29821	3.941E-02	3.812E-04	3.979E-02	2.104E-02	3.812E-04	2.143E-02
582453.98	4199007.6	86644.4263	1.42825	3.919E-02	2.369E-04	3.943E-02	2.093E-02	2.369E-04	2.117E-02
582034.02	4198693.79	86199.3294	1.48638	3.899E-02	2.465E-04	3.924E-02	2.082E-02	2.465E-04	2.107E-02
582417.92	4198740.33	85935.24551	3.87443	3.887E-02	6.426E-04	3.951E-02	2.076E-02	6.426E-04	2.140E-02
582335.68	4198692.34	85961.0936	2.5123	3.888E-02	4.167E-04	3.930E-02	2.076E-02	4.167E-04	2.118E-02
582406.18	4199075.75	85712.55621	0.90325	3.877E-02	1.498E-04	3.892E-02	2.070E-02	1.498E-04	2.085E-02
581818.3	4198808.54	85673.11526	1.24997	3.875E-02	2.073E-04	3.896E-02	2.069E-02	2.073E-04	2.090E-02
581782.43	4199139.71	85326.89711	0.43375	3.860E-02	7.194E-05	3.867E-02	2.061E-02	7.194E-05	2.068E-02
581759.19	4199116.71	85051.39488	0.42876	3.847E-02	7.111E-05	3.854E-02	2.054E-02	7.111E-05	2.062E-02
582488.24	4198930.94	84637.22645	3.30744	3.828E-02	5.485E-04	3.883E-02	2.044E-02	5.485E-04	2.099E-02
582144.1	4199200.93	84632.94228	0.488	3.828E-02	8.093E-05	3.836E-02	2.044E-02	8.093E-05	2.052E-02
581840.53	4199185.71	84126.47726	0.41164	3.805E-02	6.827E-05	3.812E-02	2.032E-02	6.827E-05	2.039E-02
582142.81	4198666.73	83569.81831	1.56908	3.780E-02	2.602E-04	3.806E-02	2.019E-02	2.602E-04	2.045E-02

582367.52	4198697.75	83135.1706	2.6103	3.760E-02	4.329E-04	3.804E-02	2.008E-02	4.329E-04	2.051E-02
582427.51	4198731.68	81952.67644	3.45759	3.707E-02	5.734E-04	3.764E-02	1.980E-02	5.734E-04	2.037E-02
582455.38	4199029.71	81973.0934	1.19586	3.708E-02	1.983E-04	3.728E-02	1.980E-02	1.983E-04	2.000E-02
582492.33	4198956.98	81459.69743	2.29278	3.685E-02	3.803E-04	3.723E-02	1.968E-02	3.803E-04	2.006E-02
581805.67	4199162.71	80908.30568	0.42122	3.660E-02	6.986E-05	3.667E-02	1.954E-02	6.986E-05	1.961E-02
582192.09	4198657.79	80433.53138	1.57704	3.638E-02	2.615E-04	3.664E-02	1.943E-02	2.615E-04	1.969E-02
582170.5	4199200.93	80399.27725	0.48731	3.637E-02	8.082E-05	3.645E-02	1.942E-02	8.082E-05	1.950E-02
582489.73	4198976.77	80139.82149	1.84123	3.625E-02	3.054E-04	3.656E-02	1.936E-02	3.054E-04	1.966E-02
582444.11	4198734.72	79449.27774	3.46212	3.594E-02	5.742E-04	3.651E-02	1.919E-02	5.742E-04	1.977E-02
582369.73	4199122.95	79559.44431	0.69716	3.599E-02	1.156E-04	3.610E-02	1.922E-02	1.156E-04	1.933E-02
581991.38	4198701.2	78916.38807	1.34013	3.570E-02	2.223E-04	3.592E-02	1.906E-02	2.223E-04	1.928E-02
582129.43	4199211.68	78886.4537	0.46173	3.568E-02	7.658E-05	3.576E-02	1.905E-02	7.658E-05	1.913E-02
581913.65	4198739.67	78609.43557	1.42412	3.556E-02	2.362E-04	3.579E-02	1.899E-02	2.362E-04	1.922E-02
582397.57	4198696.24	78157.92683	2.50444	3.535E-02	4.154E-04	3.577E-02	1.888E-02	4.154E-04	1.929E-02
582285.67	4199170.96	77807.00646	0.55792	3.519E-02	9.253E-05	3.529E-02	1.879E-02	9.253E-05	1.889E-02
582407.37	4199100.05	77576.23723	0.77808	3.509E-02	1.290E-04	3.522E-02	1.874E-02	1.290E-04	1.887E-02
582232.49	4198652.28	77526.47916	1.58205	3.507E-02	2.624E-04	3.533E-02	1.873E-02	2.624E-04	1.899E-02
582453.25	4199054.4	77349.01366	1.0035	3.499E-02	1.664E-04	3.515E-02	1.868E-02	1.664E-04	1.885E-02
582145.76	4199211.68	76768.72245	0.46169	3.472E-02	7.657E-05	3.480E-02	1.854E-02	7.657E-05	1.862E-02
582491.68	4198999.16	76668.09504	1.48017	3.468E-02	2.455E-04	3.492E-02	1.852E-02	2.455E-04	1.876E-02
581828.91	4199185.71	76540.58454	0.39804	3.462E-02	6.601E-05	3.469E-02	1.849E-02	6.601E-05	1.855E-02
582321.72	4199157.81	76408.48919	0.5902	3.456E-02	9.788E-05	3.466E-02	1.846E-02	9.788E-05	1.855E-02
581986.74	4199228.27	76315.45162	0.41452	3.452E-02	6.875E-05	3.459E-02	1.843E-02	6.875E-05	1.850E-02
581770.81	4199139.71	75419.71213	0.40915	3.411E-02	6.786E-05	3.418E-02	1.822E-02	6.786E-05	1.829E-02
582162.09	4199211.68	74597.01556	0.46151	3.374E-02	7.654E-05	3.382E-02	1.802E-02	7.654E-05	1.810E-02
581874.14	4198759.36	74468.90045	1.37522	3.368E-02	2.281E-04	3.391E-02	1.799E-02	2.281E-04	1.822E-02
582489.73	4199018.94	74194.24191	1.25502	3.356E-02	2.081E-04	3.377E-02	1.792E-02	2.081E-04	1.813E-02
581959.42	4199230.22	74224.75386	0.40266	3.357E-02	6.678E-05	3.364E-02	1.793E-02	6.678E-05	1.800E-02
582426.71	4198694.14	73383.85303	2.38016	3.319E-02	3.947E-04	3.359E-02	1.773E-02	3.947E-04	1.812E-02
581794.05	4199162.71	73364.35693	0.40295	3.319E-02	6.683E-05	3.325E-02	1.772E-02	6.683E-05	1.779E-02
582452.99	4199075.13	72577.53432	0.87583	3.283E-02	1.453E-04	3.297E-02	1.753E-02	1.453E-04	1.768E-02
581932.1	4199230.22	72527.40787	0.38957	3.281E-02	6.461E-05	3.287E-02	1.752E-02	6.461E-05	1.758E-02
582178.42	4199211.68	72404.53234	0.46119	3.275E-02	7.649E-05	3.283E-02	1.749E-02	7.649E-05	1.757E-02
582087.14	4198657.53	71772.74588	1.2248	3.247E-02	2.031E-04	3.267E-02	1.734E-02	2.031E-04	1.754E-02
581747.57	4199116.71	71544.09542	0.40151	3.236E-02	6.659E-05	3.243E-02	1.728E-02	6.659E-05	1.735E-02
582372.12	4199143.27	71343.51703	0.62316	3.227E-02	1.033E-04	3.237E-02	1.723E-02	1.033E-04	1.734E-02
582057.48	4199232.66	70867.37935	0.41373	3.206E-02	6.862E-05	3.212E-02	1.712E-02	6.862E-05	1.719E-02
581852.15	4199208.71	70760.72407	0.37129	3.201E-02	6.158E-05	3.207E-02	1.709E-02	6.158E-05	1.715E-02
582407.97	4199122.75	70236.80065	0.68262	3.177E-02	1.132E-04	3.188E-02	1.697E-02	1.132E-04	1.708E-02
582194.75	4199211.68	70220.06544	0.46071	3.176E-02	7.641E-05	3.184E-02	1.696E-02	7.641E-05	1.704E-02
582490.71	4199041.33	70175.01203	1.05798	3.174E-02	1.755E-04	3.192E-02	1.695E-02	1.755E-04	1.713E-02
581817.29	4199185.71	70071.83688	0.3843	3.170E-02	6.374E-05	3.176E-02	1.693E-02	6.374E-05	1.699E-02
582022.79	4198673.88	68892.06187	1.15048	3.116E-02	1.908E-04	3.135E-02	1.664E-02	1.908E-04	1.683E-02
582456.75	4198691.44	68608.94287	2.24183	3.103E-02	3.718E-04	3.141E-02	1.657E-02	3.718E-04	1.694E-02
582285.87	4199189.48	68401.12655	0.50754	3.094E-02	8.417E-05	3.102E-02	1.652E-02	8.417E-05	1.661E-02
582211.08	4199211.68	68062.77276	0.46006	3.079E-02	7.630E-05	3.086E-02	1.644E-02	7.630E-05	1.652E-02
582188.52	4198632	67887.59595	1.21563	3.071E-02	2.016E-04	3.091E-02	1.640E-02	2.016E-04	1.660E-02
582129.43	4199229.01	67800.58974	0.42351	3.067E-02	7.024E-05	3.074E-02	1.638E-02	7.024E-05	1.645E-02
581983.72	4198688.94	67597.92761	1.13603	3.058E-02	1.884E-04	3.077E-02	1.633E-02	1.884E-04	1.652E-02
582127.74	4198640.17	67552.9417	1.15912	3.056E-02	1.922E-04	3.075E-02	1.632E-02	1.922E-04	1.651E-02
582489.41	4199058.52	67391.98833	0.94065	3.048E-02	1.560E-04	3.064E-02	1.628E-02	1.560E-04	1.643E-02
582322.12	4199178.13	67340.56968	0.53137	3.046E-02	8.813E-05	3.055E-02	1.627E-02	8.813E-05	1.635E-02
582453.1	4199098.75	66962.65355	0.75803	3.029E-02	1.257E-04	3.042E-02	1.617E-02	1.257E-04	1.630E-02
581759.19	4199139.71	66495.54267	0.38596	3.008E-02	6.401E-05	3.014E-02	1.606E-02	6.401E-05	1.613E-02
582232.93	4198626.24	66446.6898	1.24233	3.006E-02	2.060E-04	3.026E-02	1.605E-02	2.060E-04	1.626E-02
581782.43	4199162.71	66438.92242	0.38491	3.005E-02	6.384E-05	3.012E-02	1.605E-02	6.384E-05	1.611E-02
582145.76	4199229.01	66267.56382	0.42371	2.997E-02	7.027E-05	3.005E-02	1.601E-02	7.027E-05	1.608E-02
582255.58	4199204.8	65677.52896	0.47339	2.971E-02	7.851E-05	2.979E-02	1.586E-02	7.851E-05	1.594E-02
581840.53	4199208.71	65647.9773	0.36024	2.969E-02	5.974E-05	2.975E-02	1.586E-02	5.974E-05	1.592E-02
581768.41	4198847.77	65576.39095	0.82672	2.966E-02	1.371E-04	2.980E-02	1.584E-02	1.371E-04	1.598E-02
582358.21	4198636.45	65414.95129	1.49366	2.959E-02	2.477E-04	2.984E-02	1.580E-02	2.477E-04	1.605E-02
582390.66	4198643.37	64827.40741	1.57853	2.932E-02	2.618E-04	2.959E-02	1.566E-02	2.618E-04	1.592E-02
582162.09	4199229.01	64667.41775	0.42377	2.925E-02	7.028E-05	2.932E-02	1.562E-02	7.028E-05	1.569E-02
582263.57	4198621.43	64572.2524	1.23874	2.921E-02	2.054E-04	2.941E-02	1.560E-02	2.054E-04	1.580E-02
582406.38	4199143.07	64385.21266	0.61181	2.912E-02	1.015E-04	2.922E-02	1.555E-02	1.015E-04	1.565E-02
581805.67	4199185.71	64332.34986	0.37048	2.910E-02	6.144E-05	2.916E-02	1.554E-02	6.144E-05	1.560E-02
582369.13	4199164.98	64135.66404	0.55705	2.901E-02	9.239E-05	2.910E-02	1.549E-02	9.239E-05	1.558E-02
582410.49	4198646.97	64014.7111	1.61461	2.896E-02	2.678E-04	2.922E-02	1.546E-02	2.678E-04	1.573E-02
582290.61	4198620.83	63864.99939	1.26625	2.889E-02	2.100E-04	2.910E-02	1.543E-02	2.100E-04	1.564E-02
582178.42	4199229.01	63025.13693	0.42369	2.851E-02	7.027E-05	2.858E-02	1.522E-02	7.027E-05	1.529E-02
582492.01	4199084.8	61907.78403	0.79313	2.800E-02	1.315E-04	2.813E-02	1.495E-02	1.315E-04	1.509E-02
581845.33	4198763.25	61883.63372	1.12408	2.799E-02	1.864E-04	2.818E-02	1.495E-02	1.864E-04	1.513E-02
582320.35	4198617.23	61815.08132	1.25636	2.796E-02	2.084E-04	2.817E-02	1.493E-02	2.084E-04	1.514E-02
582348.9	4198620.83	61604.41426	1.31142	2.787E-02	2.175E-04	2.808E-02	1.488E-02	2.175E-04	1.510E-02
582453.7	4199121.45	61384.49607	0.66541	2.777E-02	1.104E-04	2.788E-02	1.483E-02	1.104E-04	1.494E-02
582194.75	4199229.01	61357.057	0.42346	2.775E-02	7.023E-05	2.782E-02	1.482E-02	7.023E-05	1.489E-02
582062.62	4198644.76	61065.28247	1.00602	2.762E-02	1.668E-04	2.779E-02	1.475E-02	1.668E-04	1.492E-02
582027.72	4199249.74	60997.26662	0.37775	2.759E-02	6.265E-05	2.765E-02	1.473E-02	6.265E-05	1.480E-02
581828.91	4199208.71	60950.37463	0.34978	2.757E-02	5.801E-05	2.763E-02	1.472E-02	5.801E-05	1.478E-02
581735.95	4199116.71	60885.96807	0.37621	2.754E-02	6.239E-05	2.760E-02	1.471E-02	6.239E-05	1.477E-02
581770.81	4199162.71	60150.51134	0.36671	2.721E-02	6.082E-05	2.727E-02	1.453E-02	6.082E-05	1.459E-02
582322.32	4199196.65	60031.71872	0.48452	2.715E-02	8.036E-05	2.723E-02	1.450E-02	8.036E-05	1.458E-02
582281.89	4199210.2	59954.65615	0.45872	2.712E-02	7.608E-05	2.720E-02	1.448E-02	7.608E-05	1.456E-02
581906.38	4198718.93	59873.19112	1.07501	2.708E-02	1.783E-04	2.726E-02	1.446E-02	1.783E-04	1.464E-02
582211.08	4199229.01	59696.58408	0.42306	2.700E-02	7.016E-05	2.707E-02	1.442E-02	7.016E-05	1.449E-02
581996.99	4199252.17	59683.55686	0.36867	2.700E-02	6.114E-05	2.706E-02	1.442E-02	6.114E-05	1.448E-02
582489.09	4199100.37	59451.72288	0.72533	2.689E-02	1.203E-04	2.701E-02	1.436E-02	1.203E-04	1.448E-02
582385.25	4198619.33	59232.52535	1.30508	2.679E-02	2.164E-04	2.701E-02	1.431E-02	2.164E-04	1.452E-02
581790.12	4198808.92	59160.12616	0.89457	2.676E-02	1.484E-04	2.691E-02	1.429E-02	1.484E-04	1.444E-02
581970.4	4199252.17	59131.25208	0.36243	2.675E-02	6.011E-05	2.681E-02	1.428E-02	6.011E-05	1.434E-02
581794.05	4199185.71	59120.24042	0.35667	2.674E-02	5.915E-05	2.680E-02	1.428E-02	5.915E-05	1.434E-02
582074.37	4198636.08	58873.11028	0.96596	2.663E-02	1.602E-04	2.679E-02	1.422E-02	1.602E-04	1.438E-02
582129.43	4199246.34	58659.50836	0.39006	2.653E-02	6.469E-05	2.660E-02	1.417E-02	6.469E-05	1.423E-02
581747.57	4199139.71	58631.28192	0.36444	2.652E-02	6.044E-05	2.658E-02	1.416E-02	6.044E-05	1.422E-02
582416.5	4198622.94	58082.62254	1.3378	2.627E-02	2.219E-04	2.649E-02	1.403E-02	2.219E-04	1.425E-02
582365.54	4199184.9	58058.83013	0.50476	2.626E-02	8.371E-05	2.635E-02	1.402E-02	8.371E-05	1.411E-02
582192.86	4198606.46	57989.87561	0.98174	2.623E-02	1.628E-04	2.639E-02	1.401E-02	1.628E-04	1.417E-02
581946.01	4199252.66	57698.23362	0.35292	2.610E-02	5.853E-05	2.616E-02	1.394E-02	5.853E-05	1.400E-02
582027.89	4198650.89	57579.416	0.9456	2.604E-02	1.568E-04	2.620E-02	1.391E-02	1.568E-04	1.407E-02
582145.76	4199246.34	57553.87125	0.3904	2.603E-02	6.475E-05	2.610E-02	1.390E-02	6.475E-05	1.397E-02
582407.57	4199166.57	57387.71163	0.5412	2.596E-02	8.976E-05	2.605E-02	1.386E-02	8.976E-05	1.395E-02
581817.29	4199208.71	56658.1585	0.33921	2.563E-02	5.626E-05	2.568E-02	1.369E-02	5.626E-05	1.374E-02
582012.32	4198655.75	56618.86637	0.93313	2.561E-02	1.548E-04	2.577E-02	1.368E-02	1.548E-04	1.383E-02
582438.43	4198622.94	56568.45853	1.32907	2.559E-02	2.204E-04	2.581E-02	1.366E-02	2.204E-04	1.388E-02
581918.44	4199251.2	56470.0623	0.33931	2.554E-02	5.627E-05	2.560E-02	1.364E-02	5.627E-05	1.370E-02
582162.09	4199246.34	56372.96024	0.3906	2.550E-02	6.478E-05	2.556E-02	1.362E-02	6.478E-05	1.368E-02
582453.43	4199143.84	56133.63908	0.58962	2.539E-02	9.779E-05	2.549E-02	1.356E-02	9.779E-05	1.366E-02
582509.93	4198651.18	55631.52833	1.54167	2.516E-02	2.557E-04	2.542E-02	1.344E-02	2.557E-04	1.369E-02
581852.15	4199231.71	55478.00766	0.32888	2.509E-02	5.454E-05	2.515E-02	1.340E-02	5.454E-05	1.346E-02
581866.37	4198738.32	55335.53436	1.03198	2.503E-02	1.712E-04	2.520E-02	1.337E-02	1.712E-04	1.354E-02
582489.09	4199121.45	55327.52308	0.64409	2.503E-02	1.068E-04	2.513E-02	1.336E-02	1.068E-04	1.347E-02
582178.42	4199246.34	55139.00307	0.39066	2.494E-02	6.479E-05	2.501E-02	1.332E-02	6.479E-05	1.338E-02
582122.12	4198612.33	55062.40127	0.88731	2.491E-02	1.472E-04	2.505E-02	1.330E-02	1.472E-04	1.345E-02
581759.19	4199162.71	54420.05651	0.349	2.462E-02	5.788E-05	2.467E-02	1.315E-02	5.788E-05	1.320E-02
581782.43	4199185.71	54336.55073	0.3429	2.458E-02	5.687E-05	2.464E-02	1.312E-02	5.687E-05	1.318E-02
581826.88	4198765.84	54152.74584	0.97606	2.449E-02	1.619E-04	2.466E-02	1.308E-02	1.619E-04	1.324E-02
582179.83	4198596.76	53986.19442	0.88532	2.442E-02	1.468E-04	2.457E-02	1.304E-02	1.468E-04	1.319E-02
581970.44	4198670.81	53881.42529	0.90397	2.437E-02	1.499E-04	2.452E-02	1.302E-02	1.499E-04	1.316E-02
582194.75	4199246.34	53873.00217	0.39057	2.437E-02	6.478E-05	2.443E-02	1.301E-02	6.478E-05	1.308E-02
582477.18	4198619.33	53160.8151	1.2719	2.405E-02	2.109E-04	2.426E-02	1.284E-02	2.109E-04	1.305E-02
582510.23	4198634.05	53007.44426	1.37128	2.398E-02	2.274E-04	2.420E-02	1.280E-02	2.274E-04	1.303E-02

582066.71	4198624.59	52911.35563	0.85655	2.393E-02	1.421E-04	2.408E-02	1.278E-02	1.421E-04	1.292E-02
581805.67	4199208.71	52697.59053	0.32856	2.384E-02	5.449E-05	2.389E-02	1.273E-02	5.449E-05	1.278E-02
581712.61	4199076.69	52682.41314	0.37322	2.383E-02	6.190E-05	2.389E-02	1.273E-02	6.190E-05	1.279E-02
582211.08	4199246.34	52598.13169	0.39033	2.379E-02	6.474E-05	2.386E-02	1.271E-02	6.474E-05	1.277E-02
582267.85	4198582.59	52489.03519	0.9095	2.374E-02	1.508E-04	2.389E-02	1.268E-02	1.508E-04	1.283E-02
581840.53	4199231.71	52407.6961	0.32063	2.371E-02	5.318E-05	2.376E-02	1.266E-02	5.318E-05	1.271E-02
582285.73	4198581.07	52199.00028	0.9177	2.361E-02	1.522E-04	2.376E-02	1.261E-02	1.522E-04	1.276E-02
582317.3	4198580.69	51985.82104	0.94319	2.351E-02	1.564E-04	2.367E-02	1.256E-02	1.564E-04	1.271E-02
581735.95	4199139.71	51840.36742	0.3443	2.345E-02	5.710E-05	2.351E-02	1.252E-02	5.710E-05	1.258E-02
582370.72	4199204.02	51604.50442	0.459	2.334E-02	7.612E-05	2.342E-02	1.247E-02	7.612E-05	1.254E-02
582286.27	4199232.11	51395.23766	0.41315	2.325E-02	6.852E-05	2.332E-02	1.241E-02	6.852E-05	1.248E-02
582325.51	4199220.95	51318.33076	0.43092	2.321E-02	7.147E-05	2.328E-02	1.240E-02	7.147E-05	1.247E-02
582492.01	4199140.92	51146.28068	0.57886	2.314E-02	9.600E-05	2.323E-02	1.235E-02	9.600E-05	1.245E-02
582129.43	4199263.67	51087.9744	0.36057	2.311E-02	5.980E-05	2.317E-02	1.234E-02	5.980E-05	1.240E-02
582353.06	4198579.17	51058.26205	0.95671	2.310E-02	1.587E-04	2.325E-02	1.233E-02	1.587E-04	1.249E-02
582454.03	4199166.54	50932.93886	0.52473	2.304E-02	8.703E-05	2.313E-02	1.230E-02	8.703E-05	1.239E-02
582242.37	4198578.41	50892.57897	0.8521	2.302E-02	1.413E-04	2.316E-02	1.229E-02	1.413E-04	1.243E-02
582103.83	4199266.81	50855.274	0.35459	2.300E-02	5.881E-05	2.306E-02	1.228E-02	5.881E-05	1.234E-02
582408.57	4199190.88	50778.06821	0.47967	2.297E-02	7.955E-05	2.305E-02	1.227E-02	7.955E-05	1.234E-02
581773.74	4198811.97	50714.09244	0.76337	2.294E-02	1.266E-04	2.307E-02	1.225E-02	1.266E-04	1.238E-02
582511.43	4198618.73	50626.53698	1.23854	2.290E-02	2.054E-04	2.311E-02	1.223E-02	2.054E-04	1.243E-02
582145.76	4199263.67	50290.60419	0.361	2.275E-02	5.987E-05	2.281E-02	1.215E-02	5.987E-05	1.221E-02
582380.82	4198578.41	50191.743	0.96444	2.270E-02	1.600E-04	2.286E-02	1.212E-02	1.600E-04	1.228E-02
581770.81	4199185.71	49917.52515	0.32944	2.258E-02	5.464E-05	2.263E-02	1.206E-02	5.464E-05	1.211E-02
581747.46	4198847.01	49747.1805	0.65884	2.250E-02	1.093E-04	2.261E-02	1.202E-02	1.093E-04	1.213E-02
582408.59	4198579.55	49518.42091	0.98005	2.240E-02	1.625E-04	2.256E-02	1.196E-02	1.625E-04	1.212E-02
581828.91	4199231.71	49439.51193	0.31226	2.236E-02	5.179E-05	2.241E-02	1.194E-02	5.179E-05	1.199E-02
582162.09	4199263.67	49420.1635	0.36128	2.235E-02	5.992E-05	2.241E-02	1.194E-02	5.992E-05	1.200E-02
582437.88	4198584.49	49267.38933	1.01604	2.229E-02	1.685E-04	2.245E-02	1.190E-02	1.685E-04	1.207E-02
581747.57	4199162.71	49245.72116	0.33187	2.228E-02	5.504E-05	2.233E-02	1.190E-02	5.504E-05	1.195E-02
581794.05	4199208.71	49020.66912	0.31786	2.217E-02	5.272E-05	2.223E-02	1.184E-02	5.272E-05	1.189E-02
582258.34	4198569.66	48933.95799	0.81402	2.213E-02	1.350E-04	2.227E-02	1.182E-02	1.350E-04	1.195E-02
582024.79	4199274.62	48929.10465	0.33587	2.213E-02	5.570E-05	2.219E-02	1.182E-02	5.570E-05	1.187E-02
582178.42	4199263.67	48493.73221	0.36143	2.194E-02	5.994E-05	2.200E-02	1.171E-02	5.994E-05	1.177E-02
582185.2	4198576.33	48036.74926	0.7642	2.173E-02	1.267E-04	2.186E-02	1.160E-02	1.267E-04	1.173E-02
582488.44	4199162	47631.22008	0.52184	2.155E-02	8.655E-05	2.163E-02	1.151E-02	8.655E-05	1.159E-02
582194.75	4199263.67	47527.98377	0.36143	2.150E-02	5.994E-05	2.156E-02	1.148E-02	5.994E-05	1.154E-02
582470.59	4198581.45	47253.12012	0.99232	2.137E-02	1.646E-04	2.154E-02	1.141E-02	1.646E-04	1.158E-02
582043.73	4198617.95	47045.16965	0.75836	2.128E-02	1.258E-04	2.141E-02	1.136E-02	1.258E-04	1.149E-02
581817.29	4199231.71	46589.94111	0.3038	2.107E-02	5.038E-05	2.112E-02	1.125E-02	5.038E-05	1.130E-02
582211.08	4199263.67	46537.98283	0.36128	2.105E-02	5.992E-05	2.111E-02	1.124E-02	5.992E-05	1.130E-02
582455.05	4199187.31	46378.03258	0.47375	2.098E-02	7.857E-05	2.106E-02	1.120E-02	7.857E-05	1.128E-02
582290.65	4199248.24	46008.51916	0.38368	2.081E-02	6.363E-05	2.087E-02	1.111E-02	6.363E-05	1.118E-02
582505.2	4198584.11	45946.76742	0.99889	2.078E-02	1.657E-04	2.095E-02	1.110E-02	1.657E-04	1.126E-02
581759.19	4199185.71	45858.72935	0.31615	2.074E-02	5.243E-05	2.080E-02	1.108E-02	5.243E-05	1.113E-02
582409.96	4199210.59	45837.02829	0.43662	2.073E-02	7.241E-05	2.081E-02	1.107E-02	7.241E-05	1.114E-02
581801.63	4198771.02	45749.34919	0.80186	2.069E-02	1.330E-04	2.083E-02	1.105E-02	1.330E-04	1.118E-02
582371.32	4199226.13	45598.81746	0.41394	2.063E-02	6.865E-05	2.069E-02	1.101E-02	6.865E-05	1.108E-02
581782.43	4199208.71	45597.26383	0.30713	2.063E-02	5.094E-05	2.068E-02	1.101E-02	5.094E-05	1.106E-02
582000.06	4198633.53	45163.68847	0.74335	2.043E-02	1.233E-04	2.055E-02	1.091E-02	1.233E-04	1.103E-02
581852.15	4199254.71	44962.4885	0.29489	2.034E-02	4.891E-05	2.039E-02	1.086E-02	4.891E-05	1.091E-02
582331.68	4199241.07	44947.89656	0.39228	2.033E-02	6.506E-05	2.040E-02	1.086E-02	6.506E-05	1.092E-02
581892.17	4198698.08	44860.95546	0.8266	2.029E-02	1.371E-04	2.043E-02	1.084E-02	1.371E-04	1.097E-02
582129.43	4199281	44789.34091	0.33443	2.026E-02	5.546E-05	2.032E-02	1.082E-02	5.546E-05	1.087E-02
581962.78	4198652.94	44765.3258	0.7555	2.025E-02	1.253E-04	2.037E-02	1.081E-02	1.253E-04	1.094E-02
581735.95	4199162.71	44608.51689	0.31538	2.018E-02	5.231E-05	2.023E-02	1.078E-02	5.231E-05	1.083E-02
582145.76	4199281	44212.131	0.33491	2.000E-02	5.554E-05	2.005E-02	1.068E-02	5.554E-05	1.073E-02
581805.67	4199231.71	43863.77565	0.29527	1.984E-02	4.897E-05	1.989E-02	1.060E-02	4.897E-05	1.064E-02
582490.71	4199181.47	43820.39133	0.47378	1.982E-02	7.858E-05	1.990E-02	1.058E-02	7.858E-05	1.066E-02
581704.58	4199103.82	43656.93905	0.3291	1.975E-02	5.458E-05	1.980E-02	1.055E-02	5.458E-05	1.060E-02
582162.09	4199281	43567.76483	0.33525	1.971E-02	5.560E-05	1.976E-02	1.052E-02	5.560E-05	1.058E-02
582066.71	4198596.25	43307.82239	0.68467	1.959E-02	1.136E-04	1.970E-02	1.046E-02	1.136E-04	1.057E-02
581840.53	4199254.71	42954.16575	0.28813	1.943E-02	4.779E-05	1.948E-02	1.038E-02	4.779E-05	1.042E-02
581752.03	4198816.54	42882.94933	0.63061	1.940E-02	1.046E-04	1.950E-02	1.036E-02	1.046E-04	1.046E-02
582235.92	4198546.93	42859.37636	0.67255	1.939E-02	1.115E-04	1.950E-02	1.035E-02	1.115E-04	1.046E-02
582178.42	4199281	42869.65833	0.33544	1.939E-02	5.563E-05	1.945E-02	1.036E-02	5.563E-05	1.041E-02
581770.81	4199208.71	42374.11067	0.29704	1.917E-02	4.926E-05	1.922E-02	1.024E-02	4.926E-05	1.028E-02
581747.57	4199185.71	42154.7901	0.30291	1.907E-02	5.024E-05	1.912E-02	1.018E-02	5.024E-05	1.023E-02
582194.75	4199281	42130.3362	0.33549	1.906E-02	5.564E-05	1.911E-02	1.018E-02	5.564E-05	1.023E-02
581993.82	4199292.18	42117.81384	0.30564	1.905E-02	5.069E-05	1.910E-02	1.017E-02	5.069E-05	1.022E-02
581964.06	4199291.2	41681.45933	0.30003	1.885E-02	4.976E-05	1.890E-02	1.007E-02	4.976E-05	1.012E-02
582107.06	4198574.28	41599.64183	0.63873	1.882E-02	1.059E-04	1.892E-02	1.005E-02	1.059E-04	1.015E-02
582450.46	4199213.91	41483.42234	0.4198	1.876E-02	6.962E-05	1.883E-02	1.002E-02	6.962E-05	1.009E-02
581930.15	4199287.79	41368.95887	0.29078	1.871E-02	4.823E-05	1.876E-02	9.993E-03	4.823E-05	1.004E-02
582211.08	4199281	41362.24179	0.33541	1.871E-02	5.563E-05	1.877E-02	9.991E-03	5.563E-05	1.005E-02
581794.05	4199231.71	41262.88947	0.28669	1.866E-02	4.755E-05	1.871E-02	9.967E-03	4.755E-05	1.001E-02
582184.94	4198549.77	41245.48969	0.63225	1.866E-02	1.049E-04	1.876E-02	9.963E-03	1.049E-04	1.007E-02
582406.18	4199232.7	41238.43107	0.39559	1.865E-02	6.561E-05	1.872E-02	9.961E-03	6.561E-05	1.003E-02
582497.98	4198547.22	41108.98752	0.80096	1.859E-02	1.328E-04	1.873E-02	9.930E-03	1.328E-04	1.006E-02
581828.91	4199254.71	40956.6766	0.28127	1.853E-02	4.665E-05	1.857E-02	9.893E-03	4.665E-05	9.940E-03
581706.53	4199127.91	40737.3863	0.30948	1.843E-02	5.133E-05	1.848E-02	9.840E-03	5.133E-05	9.891E-03
582421.52	4198528.2	40311.01019	0.7015	1.823E-02	1.163E-04	1.835E-02	9.737E-03	1.163E-04	9.853E-03
582023.82	4199299.01	40286.56803	0.30165	1.822E-02	5.003E-05	1.827E-02	9.731E-03	5.003E-05	9.781E-03
582053.58	4199299.5	40263.8528	0.30476	1.821E-02	5.054E-05	1.826E-02	9.726E-03	5.054E-05	9.776E-03
582376.26	4198524.39	40180.8911	0.66728	1.818E-02	1.107E-04	1.829E-02	9.706E-03	1.107E-04	9.816E-03
582448.15	4198529.72	40048.45341	0.71521	1.812E-02	1.186E-04	1.823E-02	9.674E-03	1.186E-04	9.792E-03
582342.41	4198523.25	40017.1395	0.6447	1.810E-02	1.069E-04	1.821E-02	9.666E-03	1.069E-04	9.773E-03
582319.96	4198523.25	39870.5661	0.63097	1.803E-02	1.046E-04	1.814E-02	9.631E-03	1.046E-04	9.735E-03
582491.03	4199205.15	39684.28056	0.42429	1.795E-02	7.037E-05	1.802E-02	9.586E-03	7.037E-05	9.656E-03
582129.43	4199298.33	39525.85129	0.31111	1.788E-02	5.160E-05	1.793E-02	9.547E-03	5.160E-05	9.599E-03
582165.02	4198546.96	39439.19124	0.59825	1.784E-02	9.922E-05	1.794E-02	9.526E-03	9.922E-05	9.626E-03
581759.19	4199208.71	39384.60924	0.2868	1.781E-02	4.757E-05	1.786E-02	9.513E-03	4.757E-05	9.561E-03
582300.57	4198521.73	39351.31271	0.612	1.780E-02	1.015E-04	1.790E-02	9.505E-03	1.015E-04	9.607E-03
582306.98	4199270.15	39230.62565	0.34758	1.775E-02	5.765E-05	1.780E-02	9.476E-03	5.765E-05	9.534E-03
581852.13	4198711.77	39183.16721	0.75065	1.772E-02	1.245E-04	1.785E-02	9.465E-03	1.245E-04	9.589E-03
582477.06	4198527.82	39121.23286	0.71224	1.770E-02	1.181E-04	1.781E-02	9.450E-03	1.181E-04	9.568E-03
582145.76	4199298.33	39104.21238	0.31164	1.769E-02	5.168E-05	1.774E-02	9.446E-03	5.168E-05	9.497E-03
581817.29	4199254.71	38989.53185	0.27434	1.764E-02	4.550E-05	1.768E-02	9.418E-03	4.550E-05	9.463E-03
581942.35	4198647.32	38896.7104	0.67003	1.759E-02	1.111E-04	1.771E-02	9.395E-03	1.111E-04	9.507E-03
582263.39	4198523.33	38866.29674	0.59076	1.758E-02	9.798E-05	1.768E-02	9.388E-03	9.798E-05	9.486E-03
581735.95	4199185.71	38803.22241	0.28947	1.755E-02	4.801E-05	1.760E-02	9.373E-03	4.801E-05	9.421E-03
581782.43	4199231.71	38789.64678	0.27808	1.755E-02	4.612E-05	1.759E-02	9.370E-03	4.612E-05	9.416E-03
582162.09	4199298.33	38623.67827	0.31201	1.747E-02	5.175E-05	1.752E-02	9.330E-03	5.175E-05	9.381E-03
581722.7	4198848.15	38500.83392	0.52337	1.742E-02	8.680E-05	1.750E-02	9.300E-03	8.680E-05	9.387E-03
581840.8	4198717.93	38345.34221	0.73838	1.734E-02	1.225E-04	1.747E-02	9.262E-03	1.225E-04	9.385E-03
582220.59	4199291.38	38228.97645	0.32114	1.729E-02	5.326E-05	1.735E-02	9.234E-03	5.326E-05	9.287E-03
582352.4	4199263.38	38210.84446	0.35352	1.728E-02	5.863E-05	1.734E-02	9.230E-03	5.863E-05	9.288E-03
582178.42	4199298.33	38093.75262	0.31224	1.723E-02	5.178E-05	1.728E-02	9.202E-03	5.178E-05	9.253E-03
581778.32	4198769.72	37817.7446	0.64652	1.711E-02	1.072E-04	1.721E-02	9.135E-03	1.072E-04	9.242E-03
582194.75	4199298.33	37524.41573	0.31232	1.697E-02	5.180E-05	1.703E-02	9.064E-03	5.180E-05	9.116E-03
582120.08	4198552.58	37486.10767	0.56748	1.696E-02	9.412E-05	1.705E-02	9.055E-03	9.412E-05	9.149E-03
582451.81	4199235.64	37377.45518	0.38079	1.691E-02	6.315E-05	1.697E-02	9.028E-03	6.315E-05	9.092E-03
581852.15	4199277.71	37373.37018	0.26662	1.691E-02	4.422E-05	1.695E-02	9.028E-03	4.422E-05	9.072E-03
582371.32	4199262.38	37342.39055	0.35275	1.689E-02	5.850E-05	1.695E-02	9.020E-03	5.850E-05	9.079E-03
582486.17	4199222.66	37176.21139	0.39385	1.682E-02	6.532E-05	1.688E-02	8.980E-03	6.532E-05	9.045E-03
582247.01	4199291.38	37109.12943	0.3206	1.679E-02	5.317E-05	1.684E-02	8.964E-03	5.317E-05	9.017E-03
581805.67	4199254.71	37065.20213	0.26737	1.677E-02	4.434E-05	1.681E-02	8.953E-03	4.434E-05	8.997E-03
582211.08	4199298.33	36925.26745	0.31227	1.670E-02	5.179E-05	1.675E-02	8.919E-03	5.179E-05	8.971E-03
582393	4198503.85	36901.69667	0.59555	1.669E-02	9.877E-05	1.679E-02	8.914E-03	9.877E-05	9.012E-03
581747.57	4199208.71	36618.05198	0.27648	1.656E-02	4.585E-05	1.661E-02	8.845E-03	4.585E-05	8.891E-03
581989.91	4199310.23	36617.23802	0.28208	1.656E-02	4.678E-05	1.661E-02	8.845E-03	4.678E-05	8.892E-03

581770.81	4199231.71	36440.74372	0.26958	1.648E-02	4.471E-05	1.653E-02	8.802E-03	4.471E-05	8.847E-03
582138.21	4198541.09	36381.38288	0.54659	1.646E-02	9.065E-05	1.655E-02	8.788E-03	9.065E-05	8.879E-03
581704.79	4199150.91	36332.25654	0.28568	1.643E-02	4.738E-05	1.648E-02	8.776E-03	4.738E-05	8.823E-03
582352.18	4198500.25	36302.85505	0.56429	1.642E-02	9.359E-05	1.651E-02	8.769E-03	9.359E-05	8.863E-03
581953.84	4198630.72	36254.32943	0.62071	1.640E-02	1.029E-04	1.650E-02	8.757E-03	1.029E-04	8.860E-03
582403.19	4199258.8	36227.48034	0.35359	1.639E-02	5.864E-05	1.645E-02	8.751E-03	5.864E-05	8.809E-03
581960.15	4199309.25	36191.71165	0.27639	1.637E-02	4.584E-05	1.642E-02	8.742E-03	4.584E-05	8.788E-03
581827.2	4198720.51	35974.90721	0.69472	1.627E-02	1.152E-04	1.639E-02	8.690E-03	1.152E-04	8.805E-03
581840.53	4199277.71	35966.69615	0.26098	1.627E-02	4.328E-05	1.631E-02	8.688E-03	4.328E-05	8.731E-03
582064.92	4198566.62	35566.63153	0.54792	1.609E-02	9.087E-05	1.618E-02	8.591E-03	9.087E-05	8.682E-03
581680.98	4198977.56	35453.56071	0.3611	1.604E-02	5.989E-05	1.610E-02	8.564E-03	5.989E-05	8.624E-03
581683.93	4198954.61	35341.91172	0.38064	1.599E-02	6.313E-05	1.605E-02	8.537E-03	6.313E-05	8.600E-03
582447.01	4198495.11	35317.34144	0.58408	1.598E-02	9.687E-05	1.607E-02	8.531E-03	9.687E-05	8.628E-03
581986.27	4198606.97	35221.60637	0.58696	1.593E-02	9.735E-05	1.603E-02	8.508E-03	9.735E-05	8.605E-03
581681.83	4198965.56	35201.24335	0.36944	1.592E-02	6.127E-05	1.598E-02	8.503E-03	6.127E-05	8.564E-03
581794.05	4199254.71	35193.27322	0.26035	1.592E-02	4.318E-05	1.596E-02	8.501E-03	4.318E-05	8.544E-03
582288.64	4198498.46	35133.41224	0.52237	1.589E-02	8.663E-05	1.598E-02	8.486E-03	8.663E-05	8.573E-03
582105.78	4198546.96	35113.57778	0.53065	1.588E-02	8.801E-05	1.597E-02	8.482E-03	8.801E-05	8.570E-03
582129.43	4199315.66	35105.15917	0.29021	1.588E-02	4.813E-05	1.593E-02	8.480E-03	4.813E-05	8.528E-03
582317.94	4199287.68	34872.85895	0.32226	1.577E-02	5.345E-05	1.583E-02	8.424E-03	5.345E-05	8.477E-03
582145.76	4199315.66	34793.0388	0.29077	1.574E-02	4.822E-05	1.579E-02	8.404E-03	4.822E-05	8.452E-03
581932.59	4199311.21	34679.77809	0.26368	1.569E-02	4.373E-05	1.573E-02	8.377E-03	4.373E-05	8.421E-03
581828.91	4199277.71	34550.51792	0.25526	1.563E-02	4.233E-05	1.567E-02	8.346E-03	4.233E-05	8.388E-03
582219.1	4198507.49	34474.48144	0.50221	1.559E-02	8.329E-05	1.568E-02	8.327E-03	8.329E-05	8.411E-03
582162.09	4199315.66	34430.30321	0.29117	1.557E-02	4.829E-05	1.562E-02	8.317E-03	4.829E-05	8.365E-03
581759.19	4199231.71	34227.86342	0.26095	1.548E-02	4.328E-05	1.553E-02	8.268E-03	4.328E-05	8.311E-03
581735.95	4199208.71	34062.09824	0.26615	1.541E-02	4.414E-05	1.545E-02	8.228E-03	4.414E-05	8.272E-03
582178.42	4199315.66	34024.09683	0.29142	1.539E-02	4.833E-05	1.544E-02	8.218E-03	4.833E-05	8.267E-03
582486.49	4199244.4	33781.27407	0.35859	1.528E-02	5.947E-05	1.534E-02	8.160E-03	5.947E-05	8.219E-03
581802.28	4198732.17	33682.0207	0.63395	1.524E-02	1.051E-04	1.534E-02	8.136E-03	1.051E-04	8.241E-03
582194.75	4199315.66	33581.87581	0.29152	1.519E-02	4.835E-05	1.524E-02	8.112E-03	4.835E-05	8.160E-03
582452.4	4199258.35	33541.79853	0.34551	1.517E-02	5.730E-05	1.523E-02	8.102E-03	5.730E-05	8.159E-03
581672.59	4199008.78	33392.05116	0.32648	1.510E-02	5.415E-05	1.516E-02	8.066E-03	5.415E-05	8.120E-03
581877.22	4198672.61	33375.43993	0.63454	1.510E-02	1.052E-04	1.520E-02	8.062E-03	1.052E-04	8.167E-03
581782.43	4199254.71	33381.62045	0.2533	1.510E-02	4.201E-05	1.514E-02	8.063E-03	4.201E-05	8.105E-03
581754.69	4198773.61	33324.4111	0.53638	1.507E-02	8.896E-05	1.516E-02	8.049E-03	8.896E-05	8.138E-03
581817.29	4199277.71	33137.61544	0.2495	1.499E-02	4.138E-05	1.503E-02	8.004E-03	4.138E-05	8.046E-03
582211.08	4199315.66	33110.9656	0.2915	1.498E-02	4.834E-05	1.503E-02	7.998E-03	4.834E-05	8.046E-03
581721.18	4198813.49	32686.01523	0.47792	1.478E-02	7.926E-05	1.486E-02	7.895E-03	7.926E-05	7.975E-03
581679.93	4198928.92	32524.38363	0.378	1.471E-02	6.269E-05	1.477E-02	7.856E-03	6.269E-05	7.919E-03
582334.93	4198474.69	32426.08143	0.47814	1.467E-02	7.930E-05	1.475E-02	7.832E-03	7.930E-05	7.912E-03
582375.5	4198470.76	32310.54909	0.48548	1.462E-02	8.052E-05	1.470E-02	7.805E-03	8.052E-05	7.885E-03
582334.47	4199298.04	32229.94417	0.30783	1.458E-02	5.105E-05	1.463E-02	7.785E-03	5.105E-05	7.836E-03
581703.49	4199176.3	32189.79509	0.26227	1.456E-02	4.350E-05	1.460E-02	7.775E-03	4.350E-05	7.819E-03
581747.57	4199231.71	32133.07414	0.25259	1.453E-02	4.189E-05	1.458E-02	7.762E-03	4.189E-05	7.804E-03
582312.48	4198474.69	32064.2326	0.46704	1.450E-02	7.746E-05	1.458E-02	7.745E-03	7.746E-05	7.823E-03
582403.59	4199282.9	31970.08318	0.31985	1.446E-02	5.305E-05	1.451E-02	7.722E-03	5.305E-05	7.775E-03
582025.53	4199332.18	31846.12218	0.26355	1.441E-02	4.371E-05	1.445E-02	7.692E-03	4.371E-05	7.736E-03
582220.59	4199320.81	31816.60604	0.28566	1.439E-02	4.738E-05	1.444E-02	7.685E-03	4.738E-05	7.733E-03
582055.29	4199333.16	31747.70101	0.26597	1.436E-02	4.411E-05	1.440E-02	7.669E-03	4.411E-05	7.713E-03
581805.67	4199277.71	31737.8729	0.24369	1.436E-02	4.042E-05	1.440E-02	7.666E-03	4.042E-05	7.707E-03
582421.52	4198464.3	31649.72489	0.48515	1.432E-02	8.046E-05	1.440E-02	7.645E-03	8.046E-05	7.725E-03
581852.15	4199300.71	31655.19773	0.24312	1.432E-02	4.032E-05	1.436E-02	7.646E-03	4.032E-05	7.687E-03
581770.81	4199254.71	31636.82826	0.24623	1.431E-02	4.084E-05	1.435E-02	7.642E-03	4.084E-05	7.683E-03
582293.09	4198473.17	31453.24098	0.45301	1.423E-02	7.513E-05	1.430E-02	7.598E-03	7.513E-05	7.673E-03
582261.13	4198479.04	31447.2948	0.45035	1.422E-02	7.469E-05	1.430E-02	7.596E-03	7.469E-05	7.671E-03
582129.43	4199332.99	31371.21488	0.27138	1.419E-02	4.501E-05	1.424E-02	7.578E-03	4.501E-05	7.623E-03
582181.93	4198498.76	31322.17481	0.44952	1.417E-02	7.455E-05	1.424E-02	7.566E-03	7.455E-05	7.640E-03
581991.38	4199333.16	31186.62435	0.25712	1.411E-02	4.264E-05	1.415E-02	7.533E-03	4.264E-05	7.576E-03
582145.76	4199332.99	31136.46976	0.27197	1.408E-02	4.511E-05	1.413E-02	7.521E-03	4.511E-05	7.566E-03
582247.01	4199320.81	31048.88534	0.28524	1.404E-02	4.731E-05	1.409E-02	7.500E-03	4.731E-05	7.547E-03
582162.09	4199332.99	30858.8574	0.27238	1.396E-02	4.517E-05	1.400E-02	7.454E-03	4.517E-05	7.499E-03
581946.43	4198612.33	30843.20792	0.53648	1.395E-02	8.897E-05	1.404E-02	7.450E-03	8.897E-05	7.539E-03
581664.59	4199034.29	30831.13524	0.29975	1.395E-02	4.971E-05	1.400E-02	7.447E-03	4.971E-05	7.497E-03
581961.62	4199332.18	30826.79378	0.25218	1.394E-02	4.182E-05	1.399E-02	7.446E-03	4.182E-05	7.488E-03
581666.25	4198975.24	30718.87716	0.32645	1.390E-02	5.414E-05	1.395E-02	7.420E-03	5.414E-05	7.474E-03
582490.38	4199264.84	30668.63473	0.32867	1.387E-02	5.451E-05	1.393E-02	7.408E-03	5.451E-05	7.462E-03
581667.51	4198962.61	30628.79738	0.33455	1.385E-02	5.548E-05	1.391E-02	7.398E-03	5.548E-05	7.454E-03
582372.91	4199298.83	30621.26941	0.30346	1.385E-02	5.033E-05	1.390E-02	7.397E-03	5.033E-05	7.447E-03
581840.53	4199300.71	30623.36936	0.23833	1.385E-02	3.953E-05	1.389E-02	7.397E-03	3.953E-05	7.437E-03
582178.42	4199332.99	30543.49205	0.27265	1.382E-02	4.522E-05	1.386E-02	7.378E-03	4.522E-05	7.423E-03
581670.07	4199104.69	30450.75917	0.2721	1.377E-02	4.513E-05	1.382E-02	7.355E-03	4.513E-05	7.400E-03
581779.94	4198736.05	30393.80152	0.55069	1.375E-02	9.133E-05	1.384E-02	7.342E-03	9.133E-05	7.433E-03
581794.05	4199277.71	30358.98963	0.23785	1.373E-02	3.945E-05	1.377E-02	7.333E-03	3.945E-05	7.373E-03
581932.59	4199330.23	30345.66585	0.24449	1.373E-02	4.055E-05	1.377E-02	7.330E-03	4.055E-05	7.371E-03
582194.75	4199332.99	30195.87266	0.27278	1.366E-02	4.524E-05	1.370E-02	7.294E-03	4.524E-05	7.339E-03
581735.95	4199231.71	30152.95855	0.2445	1.364E-02	4.055E-05	1.368E-02	7.283E-03	4.055E-05	7.324E-03
581709.57	4199199.96	30144.20176	0.24993	1.364E-02	4.145E-05	1.368E-02	7.281E-03	4.145E-05	7.323E-03
582450.48	4199281.7	30110.06326	0.31437	1.362E-02	5.214E-05	1.367E-02	7.273E-03	5.214E-05	7.325E-03
581759.19	4199254.71	29964.02364	0.23914	1.355E-02	3.966E-05	1.359E-02	7.238E-03	3.966E-05	7.277E-03
582211.08	4199332.99	29821.95799	0.27278	1.349E-02	4.524E-05	1.353E-02	7.203E-03	4.524E-05	7.249E-03
582165.44	4198494.56	29810.80867	0.42737	1.348E-02	7.088E-05	1.356E-02	7.201E-03	7.088E-05	7.272E-03
581828.91	4199300.71	29575.9722	0.2336	1.338E-02	3.874E-05	1.342E-02	7.144E-03	3.874E-05	7.183E-03
582042.19	4198545.68	29222.27276	0.45615	1.322E-02	7.565E-05	1.329E-02	7.059E-03	7.565E-05	7.134E-03
582412.14	4198442.36	29160.27229	0.42773	1.319E-02	7.094E-05	1.326E-02	7.044E-03	7.094E-05	7.115E-03
582137.32	4198500.7	29133.04083	0.42394	1.318E-02	7.031E-05	1.325E-02	7.037E-03	7.031E-05	7.107E-03
582448.72	4198440.71	29051.08008	0.43521	1.314E-02	7.218E-05	1.321E-02	7.017E-03	7.218E-05	7.089E-03
581660.96	4199076.26	29036.4594	0.27411	1.313E-02	4.546E-05	1.318E-02	7.014E-03	4.546E-05	7.059E-03
582389.7	4198442.36	29028.91878	0.42009	1.313E-02	6.967E-05	1.320E-02	7.012E-03	6.967E-05	7.082E-03
582471.16	4198440.71	29001.96732	0.44187	1.312E-02	7.328E-05	1.319E-02	7.005E-03	7.328E-05	7.079E-03
581782.43	4199277.71	29007.70175	0.23199	1.312E-02	3.847E-05	1.316E-02	7.007E-03	3.847E-05	7.045E-03
582370.3	4198440.84	28684.00253	0.4096	1.297E-02	6.793E-05	1.304E-02	6.929E-03	6.793E-05	6.997E-03
581817.29	4199300.71	28527.26591	0.2287	1.290E-02	3.793E-05	1.294E-02	6.891E-03	3.793E-05	6.929E-03
582306.03	4198447.72	28461.51739	0.39874	1.287E-02	6.613E-05	1.294E-02	6.875E-03	6.613E-05	6.941E-03
582404.77	4199306.04	28381.0498	0.29162	1.284E-02	4.836E-05	1.289E-02	6.855E-03	4.836E-05	6.904E-03
581747.57	4199254.71	28358.60108	0.23225	1.283E-02	3.852E-05	1.287E-02	6.850E-03	3.852E-05	6.889E-03
581728.14	4198773.61	28285.41269	0.44215	1.279E-02	7.333E-05	1.287E-02	6.832E-03	7.333E-05	6.906E-03
582129.43	4199350.32	28197.9027	0.25435	1.275E-02	4.218E-05	1.280E-02	6.811E-03	4.218E-05	6.853E-03
582210.05	4198468.37	28156.01721	0.39552	1.274E-02	6.560E-05	1.280E-02	6.801E-03	6.560E-05	6.867E-03
582145.76	4199350.32	28018.52381	0.25495	1.267E-02	4.228E-05	1.272E-02	6.768E-03	4.228E-05	6.810E-03
581659.72	4198947.03	28012.52101	0.32261	1.267E-02	5.350E-05	1.272E-02	6.766E-03	5.350E-05	6.820E-03
582489.41	4199286.57	27884.87383	0.30163	1.261E-02	5.002E-05	1.266E-02	6.736E-03	5.002E-05	6.786E-03
581683.82	4198850.48	27855.75762	0.3843	1.260E-02	6.374E-05	1.266E-02	6.729E-03	6.374E-05	6.792E-03
582162.09	4199350.32	27802.54344	0.25539	1.258E-02	4.236E-05	1.262E-02	6.716E-03	4.236E-05	6.758E-03
581664.43	4199127.04	27745.42364	0.25167	1.255E-02	4.174E-05	1.259E-02	6.702E-03	4.174E-05	6.744E-03
581865.08	4198655.12	27728.91596	0.53818	1.254E-02	8.926E-05	1.263E-02	6.698E-03	8.926E-05	6.787E-03
582341.79	4198435.55	27721.66565	0.38723	1.254E-02	6.422E-05	1.260E-02	6.696E-03	6.422E-05	6.760E-03
581770.81	4199277.71	27690.10472	0.2261	1.253E-02	3.750E-05	1.256E-02	6.689E-03	3.750E-05	6.726E-03
581991.38	4199352.19	27584.84429	0.23888	1.248E-02	3.962E-05	1.252E-02	6.663E-03	3.962E-05	6.703E-03
582178.42	4199350.32	27554.12014	0.25567	1.246E-02	4.240E-05	1.251E-02	6.656E-03	4.240E-05	6.698E-03
581759.22	4198737.35	27491.653	0.47788	1.244E-02	7.926E-05	1.251E-02	6.641E-03	7.926E-05	6.720E-03
581805.67	4199300.71	27480.68885	0.22378	1.243E-02	3.711E-05	1.247E-02	6.638E-03	3.711E-05	6.675E-03
581659.72	4198931.03	27358.39418	0.32679	1.238E-02	5.420E-05	1.243E-02	6.608E-03	5.420E-05	6.663E-03
581829.47	4198680.05	27335.6393	0.53954	1.236E-02	8.948E-05	1.245E-02	6.603E-03	8.948E-05	6.692E-03
582461.65	4198423.22	27331.11243	0.40178	1.236E-02	6.663E-05	1.243E-02	6.602E-03	6.663E-05	6.668E-03
582442.63	4198423.22	27313.84881	0.39569	1.235E-02	6.562E-05	1.242E-02	6.598E-03	6.562E-05	6.663E-03
582194.75	4199350.32	27277.58083	0.25582	1.234E-02	4.243E-05	1.238E-02	6.589E-03	4.243E-05	6.631E-03
582114.69	4198497.14	27208.61317	0.39827	1.231E-02	6.605E-05	1.237E-02	6.572E-03	6.605E-05	6.638E-03
582410.24	4198423.34	27183.27938	0.38632	1.230E-02	6.407E-05	1.236E-02	6.566E-03	6.407E-05	6.630E-03
581852.15	4199323.71	27181.80599	0.22416	1.230E-02	3.718E-05	1.233E-02	6.566E-03	3.718E-05	6.603E-03
582054.31	4199358.04	27149.69672	0.24194	1.228E-02	4.013E-05	1.232E-02	6.558E-03	4.013E-05	6.598E-03

582024.55	4199357.06	27118.1749	0.23929	1.227E-02	3.969E-05	1.231E-02	6.550E-03	3.969E-05	6.590E-03
582452.43	4199303.76	27061.08305	0.28802	1.224E-02	4.777E-05	1.229E-02	6.537E-03	4.777E-05	6.584E-03
582387.8	4198423.34	27004.02435	0.37907	1.221E-02	6.287E-05	1.228E-02	6.523E-03	6.287E-05	6.586E-03
582211.08	4199350.32	26977.24456	0.25584	1.220E-02	4.243E-05	1.225E-02	6.516E-03	4.243E-05	6.559E-03
581964.06	4199353.16	26922.25922	0.23305	1.218E-02	3.865E-05	1.222E-02	6.503E-03	3.865E-05	6.542E-03
581735.95	4199254.71	26821.51218	0.22556	1.213E-02	3.741E-05	1.217E-02	6.479E-03	3.741E-05	6.516E-03
581648.99	4199012.17	26813.52532	0.28055	1.213E-02	4.653E-05	1.218E-02	6.477E-03	4.653E-05	6.523E-03
582220.59	4199350.24	26805.1611	0.25586	1.212E-02	4.243E-05	1.217E-02	6.475E-03	4.243E-05	6.517E-03
582368.4	4198421.82	26636.78707	0.36961	1.205E-02	6.130E-05	1.211E-02	6.434E-03	6.130E-05	6.495E-03
581794.05	4199300.71	26444.41245	0.21873	1.196E-02	3.628E-05	1.200E-02	6.388E-03	3.628E-05	6.424E-03
581759.19	4199277.71	26410.69655	0.22019	1.195E-02	3.652E-05	1.198E-02	6.379E-03	3.652E-05	6.416E-03
581840.53	4199323.71	26387.93193	0.22038	1.194E-02	3.655E-05	1.197E-02	6.374E-03	3.655E-05	6.411E-03
582247.01	4199350.24	26265.728	0.25551	1.188E-02	4.238E-05	1.192E-02	6.344E-03	4.238E-05	6.387E-03
582334.67	4199335.88	26258.17151	0.26597	1.188E-02	4.411E-05	1.192E-02	6.343E-03	4.411E-05	6.387E-03
582008.23	4198546.19	26160.51404	0.42241	1.183E-02	7.006E-05	1.190E-02	6.319E-03	7.006E-05	6.389E-03
582302.6	4198427.94	26148.40082	0.3564	1.183E-02	5.911E-05	1.189E-02	6.316E-03	5.911E-05	6.375E-03
581664.21	4199153.08	26019.12089	0.23663	1.177E-02	3.924E-05	1.181E-02	6.285E-03	3.924E-05	6.324E-03
581703.93	4199225.78	25998.61502	0.22595	1.176E-02	3.747E-05	1.180E-02	6.280E-03	3.747E-05	6.317E-03
582275.59	4198430.61	25777.85329	0.35038	1.166E-02	5.811E-05	1.172E-02	6.227E-03	5.811E-05	6.285E-03
582171.58	4198461.58	25608.02668	0.36024	1.158E-02	5.974E-05	1.164E-02	6.186E-03	5.974E-05	6.245E-03
581828.91	4199323.71	25577.75663	0.21667	1.157E-02	3.593E-05	1.161E-02	6.178E-03	3.593E-05	6.214E-03
582129.43	4199367.65	25483.41828	0.23889	1.153E-02	3.962E-05	1.157E-02	6.155E-03	3.962E-05	6.195E-03
582461.65	4198402.29	25450.8646	0.36229	1.151E-02	6.008E-05	1.157E-02	6.148E-03	6.008E-05	6.208E-03
582492.98	4199306.03	25452.896	0.27933	1.151E-02	4.633E-05	1.156E-02	6.148E-03	4.633E-05	6.194E-03
581927.71	4199356.58	25430.88263	0.22116	1.150E-02	3.668E-05	1.154E-02	6.143E-03	3.668E-05	6.179E-03
581782.43	4199300.71	25422.49502	0.21359	1.150E-02	3.542E-05	1.153E-02	6.141E-03	3.542E-05	6.176E-03
582439.21	4198402.29	25372.11392	0.35633	1.148E-02	5.910E-05	1.154E-02	6.129E-03	5.910E-05	6.188E-03
582145.76	4199367.65	25344.17496	0.2395	1.146E-02	3.972E-05	1.150E-02	6.122E-03	3.972E-05	6.162E-03
582162.09	4199367.65	25173.77271	0.23995	1.139E-02	3.980E-05	1.143E-02	6.081E-03	3.980E-05	6.120E-03
581747.57	4199277.71	25170.64743	0.21435	1.139E-02	3.555E-05	1.142E-02	6.080E-03	3.555E-05	6.115E-03
581802.28	4198687.17	25094.80575	0.48992	1.135E-02	8.125E-05	1.143E-02	6.062E-03	8.125E-05	6.143E-03
582178.42	4199367.65	24975.32966	0.24025	1.130E-02	3.984E-05	1.134E-02	6.033E-03	3.984E-05	6.073E-03
582355.11	4199342.37	24902.64811	0.2584	1.126E-02	4.286E-05	1.131E-02	6.015E-03	4.286E-05	6.058E-03
582371.01	4199339.45	24884.21339	0.26002	1.126E-02	4.312E-05	1.130E-02	6.011E-03	4.312E-05	6.054E-03
581817.29	4199323.71	24760.76455	0.21289	1.120E-02	3.531E-05	1.124E-02	5.981E-03	3.531E-05	6.016E-03
582194.75	4199367.65	24752.1839	0.24042	1.120E-02	3.987E-05	1.124E-02	5.979E-03	3.987E-05	6.019E-03
582341.9	4198405.18	24605.86036	0.33714	1.113E-02	5.591E-05	1.119E-02	5.944E-03	5.591E-05	5.999E-03
582412.14	4198395.57	24601.79417	0.33778	1.113E-02	5.602E-05	1.118E-02	5.943E-03	5.602E-05	5.999E-03
582237.74	4198429.85	24560.22508	0.33533	1.111E-02	5.561E-05	1.116E-02	5.932E-03	5.561E-05	5.988E-03
581665.08	4199176.09	24551.78381	0.22449	1.111E-02	3.723E-05	1.114E-02	5.930E-03	3.723E-05	5.968E-03
582211.08	4199367.65	24507.92338	0.24045	1.109E-02	3.988E-05	1.113E-02	5.920E-03	3.988E-05	5.960E-03
581733.65	4198739.29	24446.62044	0.40952	1.106E-02	6.792E-05	1.113E-02	5.905E-03	6.792E-05	5.973E-03
581770.81	4199300.71	24411.79872	0.20861	1.104E-02	3.460E-05	1.108E-02	5.897E-03	3.460E-05	5.931E-03
582389.7	4198395.57	24383.72661	0.33134	1.103E-02	5.495E-05	1.108E-02	5.890E-03	5.495E-05	5.945E-03
581680.26	4198811.95	24382.04248	0.34744	1.103E-02	5.762E-05	1.109E-02	5.889E-03	5.762E-05	5.947E-03
582073.31	4198496.17	24364.10426	0.36676	1.102E-02	6.083E-05	1.108E-02	5.885E-03	6.083E-05	5.946E-03
581704.54	4198770.84	24311.86016	0.37473	1.100E-02	6.215E-05	1.106E-02	5.873E-03	6.215E-05	5.935E-03
581998.94	4199374.63	24164.67862	0.22092	1.093E-02	3.664E-05	1.097E-02	5.837E-03	3.664E-05	5.874E-03
582370.3	4198394.05	24009.88346	0.32589	1.086E-02	5.405E-05	1.091E-02	5.800E-03	5.405E-05	5.854E-03
581928.3	4198584.24	23975.16055	0.42537	1.084E-02	7.055E-05	1.092E-02	5.791E-03	7.055E-05	5.862E-03
581805.67	4199323.71	23980.58909	0.20805	1.085E-02	3.450E-05	1.088E-02	5.792E-03	3.450E-05	5.827E-03
581735.95	4199277.71	23969.73934	0.20867	1.084E-02	3.461E-05	1.088E-02	5.790E-03	3.461E-05	5.824E-03
582411.2	4199341.07	23719.49572	0.25504	1.073E-02	4.230E-05	1.077E-02	5.729E-03	4.230E-05	5.772E-03
582275.98	4198410.06	23662.5836	0.33011	1.070E-02	5.475E-05	1.076E-02	5.716E-03	5.475E-05	5.770E-03
582108.71	4199381.95	23631.10785	0.22614	1.069E-02	3.750E-05	1.073E-02	5.708E-03	3.750E-05	5.746E-03
581852.15	4199346.71	23614.95502	0.20785	1.068E-02	3.447E-05	1.072E-02	5.704E-03	3.447E-05	5.739E-03
582049.68	4199381.95	23607.26315	0.22146	1.068E-02	3.673E-05	1.072E-02	5.702E-03	3.673E-05	5.739E-03
582309.45	4198401.31	23576.64835	0.33096	1.066E-02	5.489E-05	1.072E-02	5.695E-03	5.489E-05	5.750E-03
581638.03	4198949.14	23554.46771	0.27954	1.065E-02	4.636E-05	1.070E-02	5.690E-03	4.636E-05	5.736E-03
581967.72	4199375.6	23556.81063	0.21517	1.066E-02	3.569E-05	1.069E-02	5.690E-03	3.569E-05	5.726E-03
582079.43	4199382.92	23553.28009	0.2234	1.065E-02	3.705E-05	1.069E-02	5.689E-03	3.705E-05	5.726E-03
581640.56	4198931.24	23495.48751	0.28856	1.063E-02	4.786E-05	1.068E-02	5.675E-03	4.786E-05	5.723E-03
582454.43	4198378.71	23479.04816	0.32268	1.062E-02	5.352E-05	1.067E-02	5.671E-03	5.352E-05	5.725E-03
581902.98	4198598.62	23470.94308	0.42559	1.062E-02	7.058E-05	1.069E-02	5.669E-03	7.058E-05	5.740E-03
581759.19	4199300.71	23423.27217	0.20354	1.060E-02	3.376E-05	1.063E-02	5.658E-03	3.376E-05	5.692E-03
581704.31	4199251.08	23396.5913	0.20919	1.058E-02	3.469E-05	1.062E-02	5.651E-03	3.469E-05	5.686E-03
582212.64	4198426.8	23375.41698	0.32012	1.057E-02	5.309E-05	1.063E-02	5.646E-03	5.309E-05	5.699E-03
582150.44	4198450.77	23353.79795	0.33013	1.056E-02	5.475E-05	1.062E-02	5.641E-03	5.475E-05	5.696E-03
582431.98	4198378.71	23341.78801	0.31721	1.056E-02	5.261E-05	1.061E-02	5.638E-03	5.261E-05	5.691E-03
581777.03	4198693.65	23302.61588	0.4396	1.054E-02	7.291E-05	1.061E-02	5.629E-03	7.291E-05	5.702E-03
581794.05	4199323.71	23210.01849	0.20297	1.050E-02	3.366E-05	1.053E-02	5.606E-03	3.366E-05	5.640E-03
582429.05	4199342.04	23190.076	0.25239	1.049E-02	4.186E-05	1.053E-02	5.602E-03	4.186E-05	5.643E-03
581667.25	4199199.31	23155.28137	0.21432	1.047E-02	3.554E-05	1.051E-02	5.593E-03	3.554E-05	5.629E-03
582414.42	4198378.08	23147.08998	0.31182	1.047E-02	5.171E-05	1.052E-02	5.591E-03	5.171E-05	5.643E-03
582449.21	4199339.45	22992.64893	0.25258	1.040E-02	4.189E-05	1.044E-02	5.554E-03	4.189E-05	5.596E-03
581939.42	4199375.6	22993.45885	0.20982	1.040E-02	3.480E-05	1.044E-02	5.554E-03	3.480E-05	5.589E-03
581840.53	4199346.71	22986.29448	0.20459	1.040E-02	3.393E-05	1.043E-02	5.552E-03	3.393E-05	5.586E-03
581630.7	4199042.67	22931.14268	0.24346	1.037E-02	4.038E-05	1.041E-02	5.539E-03	4.038E-05	5.579E-03
581853.1	4198633.43	22909.36648	0.45357	1.036E-02	7.522E-05	1.044E-02	5.534E-03	7.522E-05	5.609E-03
582391.98	4198378.08	22914.81572	0.30587	1.037E-02	5.073E-05	1.042E-02	5.535E-03	5.073E-05	5.586E-03
581975.03	4198542.11	22667.23382	0.38239	1.025E-02	6.342E-05	1.032E-02	5.475E-03	6.342E-05	5.539E-03
581627.99	4199015.14	22552.89966	0.24776	1.020E-02	4.109E-05	1.024E-02	5.448E-03	4.109E-05	5.489E-03
582372.58	4198376.56	22543.95405	0.30346	1.020E-02	5.033E-05	1.025E-02	5.445E-03	5.033E-05	5.496E-03
581818.14	4198656.74	22522.82489	0.44927	1.019E-02	7.451E-05	1.026E-02	5.440E-03	7.451E-05	5.515E-03
582238.12	4198409.3	22507.35406	0.30173	1.018E-02	5.004E-05	1.023E-02	5.437E-03	5.004E-05	5.487E-03
581654.68	4198847.89	22455.72433	0.31351	1.016E-02	5.199E-05	1.021E-02	5.424E-03	5.199E-05	5.476E-03
581747.57	4199300.71	22455.39454	0.19853	1.016E-02	3.293E-05	1.019E-02	5.424E-03	3.293E-05	5.457E-03
582050.35	4198492.94	22438.08641	0.34501	1.015E-02	5.722E-05	1.021E-02	5.420E-03	5.722E-05	5.477E-03
581782.43	4199323.71	22437.30831	0.19805	1.015E-02	3.285E-05	1.018E-02	5.420E-03	3.285E-05	5.453E-03
581828.91	4199346.71	22366.9348	0.20093	1.012E-02	3.332E-05	1.015E-02	5.403E-03	3.332E-05	5.436E-03
581638.88	4198905.97	22359.75381	0.29027	1.011E-02	4.814E-05	1.016E-02	5.401E-03	4.814E-05	5.449E-03
581630.57	4199086.24	22352.24137	0.22961	1.011E-02	3.808E-05	1.015E-02	5.399E-03	3.808E-05	5.437E-03
581640.35	4198894.39	22200.20309	0.29258	1.004E-02	4.852E-05	1.009E-02	5.362E-03	4.852E-05	5.411E-03
581914.54	4199376.58	22199.90404	0.20315	1.004E-02	3.369E-05	1.008E-02	5.362E-03	3.369E-05	5.396E-03
582176.5	4198427.94	22104.66113	0.30658	9.999E-03	5.085E-05	1.005E-02	5.339E-03	5.085E-05	5.390E-03
581754.69	4198698.83	21850.13738	0.39521	9.884E-03	6.554E-05	9.949E-03	5.278E-03	6.554E-05	5.343E-03
582489.41	4199341.72	21823.98029	0.24564	9.872E-03	4.074E-05	9.912E-03	5.272E-03	4.074E-05	5.312E-03
582343.19	4198373.16	21771.69996	0.30066	9.848E-03	4.986E-05	9.898E-03	5.259E-03	4.986E-05	5.309E-03
581710.69	4198737.81	21744.37999	0.35419	9.836E-03	5.874E-05	9.894E-03	5.252E-03	5.874E-05	5.311E-03
581817.29	4199346.71	21737.14848	0.19726	9.832E-03	3.272E-05	9.865E-03	5.251E-03	3.272E-05	5.283E-03
582303.74	4198381.53	21675.13757	0.30157	9.804E-03	5.001E-05	9.854E-03	5.236E-03	5.001E-05	5.286E-03
581770.81	4199323.71	21659.93707	0.19346	9.797E-03	3.208E-05	9.830E-03	5.232E-03	3.208E-05	5.264E-03
581627.51	4198940.92	21552.82703	0.26525	9.749E-03	4.399E-05	9.793E-03	5.206E-03	4.399E-05	5.250E-03
582439.55	4198354.41	21550.53036	0.2861	9.748E-03	4.745E-05	9.795E-03	5.206E-03	4.745E-05	5.253E-03
581735.95	4199300.71	21511.13528	0.19359	9.730E-03	3.211E-05	9.762E-03	5.196E-03	3.211E-05	5.228E-03
582213.02	4198406.26	21406.51071	0.28841	9.683E-03	4.783E-05	9.731E-03	5.171E-03	4.783E-05	5.219E-03
582115.06	4198448.1	21339.65062	0.30866	9.653E-03	5.119E-05	9.704E-03	5.155E-03	5.119E-05	5.206E-03
581805.67	4199346.71	21152.35432	0.19289	9.568E-03	3.199E-05	9.600E-03	5.109E-03	3.199E-05	5.141E-03
581678.64	4198770.19	21005.99826	0.31739	9.502E-03	5.264E-05	9.554E-03	5.074E-03	5.264E-05	5.127E-03
581655.97	4198813.9	20995.25707	0.2984	9.497E-03	4.949E-05	9.546E-03	5.071E-03	4.949E-05	5.121E-03
581665.91	4199228.58	20892.87732	0.19787	9.451E-03	3.282E-05	9.483E-03	5.047E-03	3.282E-05	5.079E-03
581759.19	4199323.71	20888.70944	0.18897	9.449E-03	3.134E-05	9.480E-03	5.046E-03	3.134E-05	5.077E-03
582359.59	4199378.4	20773.82113	0.22723	9.397E-03	3.769E-05	9.434E-03	5.018E-03	3.769E-05	5.056E-03
581794.05	4199346.71	20568.93272	0.18789	9.304E-03	3.116E-05	9.335E-03	4.968E-03	3.116E-05	5.000E-03
581627.75	4199139.85	20552.55399	0.20728	9.297E-03	3.438E-05	9.331E-03	4.964E-03	3.438E-05	4.999E-03
581906.89	4198572.18	20525.35896	0.37588	9.284E-03	6.234E-05	9.347E-03	4.958E-03	6.234E-05	5.020E-03
582018.02	4198494.88	20504.89666	0.3279	9.275E-03	5.438E-05	9.329E-03	4.953E-03	5.438E-05	5.007E-03
582377.74	4199378.12	20494.67567	0.22632	9.270E-03	3.753E-05	9.308E-03	4.950E-03	3.753E-05	4.988E-03
582155.58	4198419.19	20418.77275	0.28515	9.236E-03	4.729E-05	9.283E-03	4.932E-03	4.729E-05	4.979E-03
582304.77	4199390.95	20379.74478	0.22013	9.218E-03	3.651E-05	9.255E-03	4.923E-03	3.651E-05	4.959E-03
582305.65	4198364.42	20328.98433	0.28585	9.195E-03	4.741E-05	9.243E-03	4.910E-03	4.741E-05	4.958E-03

582176.88	4198407.4	20213.16308	0.27689	9.143E-03	4.592E-05	9.189E-03	4.882E-03	4.592E-05	4.928E-03
581747.57	4199323.71	20123.69397	0.18469	9.103E-03	3.063E-05	9.133E-03	4.861E-03	3.063E-05	4.891E-03
581632.09	4199169.14	20065.26686	0.19958	9.076E-03	3.310E-05	9.109E-03	4.847E-03	3.310E-05	4.880E-03
581623.51	4198904.5	20034.37685	0.26492	9.062E-03	4.394E-05	9.106E-03	4.839E-03	4.394E-05	4.883E-03
582404.69	4199378.4	20016.40811	0.22423	9.054E-03	3.719E-05	9.091E-03	4.835E-03	3.719E-05	4.872E-03
582279.78	4198367.46	19983.79714	0.2763	9.039E-03	4.582E-05	9.085E-03	4.827E-03	4.582E-05	4.873E-03
581782.43	4199346.71	19968.79076	0.1833	9.033E-03	3.040E-05	9.063E-03	4.823E-03	3.040E-05	4.854E-03
581693.42	4199278.38	19932.58716	0.18725	9.016E-03	3.105E-05	9.047E-03	4.815E-03	3.105E-05	4.846E-03
581927.62	4198551.45	19916.09705	0.35803	9.009E-03	5.938E-05	9.068E-03	4.811E-03	5.938E-05	4.870E-03
582093.03	4198444.77	19907.53506	0.29371	9.005E-03	4.871E-05	9.054E-03	4.809E-03	4.871E-05	4.857E-03
582341.25	4198348.91	19843.45466	0.27737	8.976E-03	4.600E-05	9.022E-03	4.793E-03	4.600E-05	4.839E-03
581623.93	4198894.39	19825.86122	0.26518	8.968E-03	4.398E-05	9.012E-03	4.789E-03	4.398E-05	4.833E-03
581730.72	4198697.21	19668.54018	0.34783	8.897E-03	5.769E-05	8.954E-03	4.751E-03	5.769E-05	4.809E-03
582286	4199401.62	19622.74419	0.21305	8.876E-03	3.533E-05	8.911E-03	4.740E-03	3.533E-05	4.775E-03
581614.03	4198931.24	19373.36625	0.24886	8.763E-03	4.127E-05	8.804E-03	4.680E-03	4.127E-05	4.721E-03
581611.72	4198948.08	19368.60528	0.24274	8.761E-03	4.026E-05	8.801E-03	4.678E-03	4.026E-05	4.719E-03
581735.95	4199323.71	19367.57883	0.18059	8.761E-03	2.995E-05	8.791E-03	4.678E-03	2.995E-05	4.708E-03
581770.81	4199346.71	19347.98973	0.17957	8.752E-03	2.978E-05	8.781E-03	4.673E-03	2.978E-05	4.703E-03
581805.51	4198636.99	19223.4843	0.38683	8.695E-03	6.415E-05	8.760E-03	4.643E-03	6.415E-05	4.708E-03
581838.53	4198611.74	19206.57507	0.38271	8.688E-03	6.347E-05	8.751E-03	4.639E-03	6.347E-05	4.703E-03
582230.87	4199413.6	19174.66055	0.2058	8.673E-03	3.413E-05	8.707E-03	4.632E-03	3.413E-05	4.666E-03
582241.93	4198369.36	19156.37575	0.26594	8.665E-03	4.411E-05	8.709E-03	4.627E-03	4.411E-05	4.671E-03
581629.75	4198848.22	19135.7941	0.26879	8.656E-03	4.458E-05	8.700E-03	4.622E-03	4.458E-05	4.667E-03
581605.45	4198996.4	19038.61311	0.22396	8.612E-03	3.714E-05	8.649E-03	4.599E-03	3.714E-05	4.636E-03
581662.26	4199251.83	19006.565	0.18417	8.597E-03	3.054E-05	8.628E-03	4.591E-03	3.054E-05	4.622E-03
581682.2	4198736.52	18943.29599	0.29886	8.569E-03	4.957E-05	8.618E-03	4.576E-03	4.957E-05	4.625E-03
581784.47	4198649.62	18932.74619	0.3775	8.564E-03	6.261E-05	8.626E-03	4.573E-03	6.261E-05	4.636E-03
582304.89	4198344.63	18794.26375	0.26658	8.501E-03	4.421E-05	8.545E-03	4.540E-03	4.421E-05	4.584E-03
581608.87	4199106.86	18786.78857	0.20086	8.498E-03	3.331E-05	8.531E-03	4.538E-03	3.331E-05	4.571E-03
581759.19	4199346.71	18731.8388	0.17583	8.473E-03	2.916E-05	8.502E-03	4.525E-03	2.916E-05	4.554E-03
581631.23	4199198.22	18710.52641	0.18812	8.463E-03	3.120E-05	8.495E-03	4.520E-03	3.120E-05	4.551E-03
582155.96	4198398.65	18690.36902	0.25848	8.454E-03	4.287E-05	8.497E-03	4.515E-03	4.287E-05	4.558E-03
581655.65	4198771.81	18682.85702	0.27747	8.451E-03	4.602E-05	8.497E-03	4.513E-03	4.602E-05	4.559E-03
581602.71	4199051.6	18612.52681	0.20847	8.419E-03	3.457E-05	8.454E-03	4.496E-03	3.457E-05	4.530E-03
581931.22	4198535.53	18589.11083	0.33474	8.408E-03	5.552E-05	8.464E-03	4.490E-03	5.552E-05	4.546E-03
582110.31	4198418.43	18419.15678	0.26689	8.332E-03	4.426E-05	8.376E-03	4.449E-03	4.426E-05	4.493E-03
582313.18	4199411.98	18351.75635	0.20512	8.301E-03	3.402E-05	8.335E-03	4.433E-03	3.402E-05	4.467E-03
581985.05	4198493.91	18307.76095	0.30646	8.281E-03	5.083E-05	8.332E-03	4.422E-03	5.083E-05	4.473E-03
582219.1	4198366.32	18265.06148	0.2559	8.262E-03	4.244E-05	8.304E-03	4.412E-03	4.244E-05	4.454E-03
581631.69	4198813.57	18163.82893	0.25852	8.216E-03	4.287E-05	8.259E-03	4.387E-03	4.287E-05	4.430E-03
581610.61	4199148.09	18118.74912	0.18996	8.196E-03	3.150E-05	8.227E-03	4.377E-03	3.150E-05	4.408E-03
581747.57	4199346.71	18119.20387	0.1722	8.196E-03	2.856E-05	8.224E-03	4.377E-03	2.856E-05	4.405E-03
582271.79	4198345.01	18079.78368	0.25606	8.178E-03	4.247E-05	8.221E-03	4.367E-03	4.247E-05	4.410E-03
581597.22	4199024.52	18032.12274	0.20842	8.156E-03	3.457E-05	8.191E-03	4.356E-03	3.457E-05	4.390E-03
581758.25	4198657.39	17967.92031	0.34615	8.127E-03	5.741E-05	8.185E-03	4.340E-03	5.741E-05	4.398E-03
581706.22	4198697.21	17907.79234	0.30567	8.100E-03	5.069E-05	8.151E-03	4.326E-03	5.069E-05	4.376E-03
582093.03	4198419.56	17744.94773	0.26221	8.027E-03	4.349E-05	8.070E-03	4.286E-03	4.349E-05	4.330E-03
582242.31	4198348.82	17612.04509	0.24941	7.966E-03	4.136E-05	8.008E-03	4.254E-03	4.136E-05	4.296E-03
581990.78	4199433.08	17588.32599	0.18012	7.956E-03	2.987E-05	7.986E-03	4.248E-03	2.987E-05	4.278E-03
582370.86	4199412.78	17576.94095	0.20215	7.951E-03	3.353E-05	7.984E-03	4.246E-03	3.353E-05	4.279E-03
582277.27	4199426.54	17576.1917	0.1968	7.950E-03	3.264E-05	7.983E-03	4.246E-03	3.264E-05	4.278E-03
582049.06	4198442.83	17539.22304	0.27076	7.934E-03	4.490E-05	7.978E-03	4.237E-03	4.490E-05	4.281E-03
581735.95	4199346.71	17509.67615	0.16873	7.920E-03	2.798E-05	7.948E-03	4.229E-03	2.798E-05	4.257E-03
582016.89	4199439.91	17264.21766	0.17923	7.809E-03	2.972E-05	7.839E-03	4.170E-03	2.972E-05	4.200E-03
582302.5	4199427.19	17252.11046	0.19575	7.804E-03	3.246E-05	7.836E-03	4.167E-03	3.246E-05	4.200E-03
581965.89	4199433.32	17246.72079	0.17669	7.801E-03	2.930E-05	7.831E-03	4.166E-03	2.930E-05	4.195E-03
582179.16	4198368.98	17225.71323	0.24491	7.792E-03	4.062E-05	7.832E-03	4.161E-03	4.062E-05	4.201E-03
581594.87	4198942.19	17221.36751	0.22355	7.790E-03	3.708E-05	7.827E-03	4.160E-03	3.708E-05	4.197E-03
581606.01	4199162.99	17222.5655	0.18185	7.790E-03	3.016E-05	7.820E-03	4.160E-03	3.016E-05	4.190E-03
582384.06	4199417.18	17086.64056	0.19867	7.729E-03	3.295E-05	7.762E-03	4.127E-03	3.295E-05	4.160E-03
581660.18	4198735.22	17048.80682	0.26458	7.712E-03	4.388E-05	7.756E-03	4.118E-03	4.388E-05	4.162E-03
581590.71	4199070.45	17048.40574	0.19303	7.712E-03	3.201E-05	7.744E-03	4.118E-03	3.201E-05	4.150E-03
582322.57	4199428.8	16909.65265	0.19411	7.649E-03	3.219E-05	7.681E-03	4.085E-03	3.219E-05	4.117E-03
581942.7	4199433.32	16898.64052	0.17333	7.644E-03	2.875E-05	7.673E-03	4.082E-03	2.875E-05	4.111E-03
581953.69	4198499.08	16862.16778	0.29578	7.627E-03	4.905E-05	7.676E-03	4.073E-03	4.905E-05	4.122E-03
581609.03	4198845.63	16840.61798	0.23849	7.618E-03	3.955E-05	7.657E-03	4.068E-03	3.955E-05	4.107E-03
581594.45	4198915.03	16803.34415	0.2247	7.601E-03	3.727E-05	7.638E-03	4.059E-03	3.727E-05	4.096E-03
581884.95	4198549.05	16759.14472	0.31932	7.581E-03	5.296E-05	7.634E-03	4.048E-03	5.296E-05	4.101E-03
581730.72	4198661.99	16758.61181	0.30884	7.580E-03	5.122E-05	7.632E-03	4.048E-03	5.122E-05	4.099E-03
581829.15	4198591.35	16752.00159	0.337	7.577E-03	5.589E-05	7.633E-03	4.046E-03	5.589E-05	4.102E-03
581596.9	4198895.6	16735.56444	0.22747	7.570E-03	3.773E-05	7.608E-03	4.042E-03	3.773E-05	4.080E-03
581905.99	4198532.52	16715.5062	0.31017	7.561E-03	5.144E-05	7.612E-03	4.038E-03	5.144E-05	4.089E-03
581916.1	4199430.15	16694.11974	0.1708	7.551E-03	2.833E-05	7.580E-03	4.032E-03	2.833E-05	4.061E-03
582404.14	4199419.38	16686.42311	0.19614	7.548E-03	3.253E-05	7.580E-03	4.031E-03	3.253E-05	4.063E-03
581586.25	4198983.38	16664.82329	0.20649	7.538E-03	3.425E-05	7.572E-03	4.025E-03	3.425E-05	4.060E-03
582211.12	4198345.78	16549.45403	0.23498	7.486E-03	3.897E-05	7.525E-03	3.998E-03	3.897E-05	4.036E-03
582110.31	4198393.33	16527.8429	0.23815	7.476E-03	3.950E-05	7.516E-03	3.992E-03	3.950E-05	4.032E-03
581631.69	4198770.84	16481.25372	0.24243	7.455E-03	4.021E-05	7.495E-03	3.981E-03	4.021E-05	4.021E-03
581682.56	4198698.31	16427.225	0.27231	7.431E-03	4.516E-05	7.476E-03	3.968E-03	4.516E-05	4.013E-03
582154.06	4198368.6	16366.27759	0.23612	7.403E-03	3.916E-05	7.442E-03	3.953E-03	3.916E-05	3.992E-03
582031.28	4198438.63	16354.6208	0.25846	7.398E-03	4.286E-05	7.441E-03	3.950E-03	4.286E-05	3.993E-03
581664.65	4199301.25	16312.40505	0.16346	7.379E-03	2.711E-05	7.406E-03	3.940E-03	2.711E-05	3.967E-03
581640.77	4199270.49	16237.30096	0.16514	7.345E-03	2.739E-05	7.372E-03	3.922E-03	2.739E-05	3.949E-03
581586.87	4198928.92	16221.37297	0.21556	7.337E-03	3.575E-05	7.373E-03	3.918E-03	3.575E-05	3.954E-03
582231.7	4199451.01	16153.75374	0.18295	7.307E-03	3.034E-05	7.337E-03	3.902E-03	3.034E-05	3.932E-03
581586.65	4199115.4	16147.27897	0.18001	7.304E-03	2.985E-05	7.334E-03	3.900E-03	2.985E-05	3.930E-03
581580.08	4199018.34	16105.00873	0.19413	7.285E-03	3.220E-05	7.317E-03	3.890E-03	3.220E-05	3.922E-03
581626.45	4199249.44	16084.41265	0.16593	7.275E-03	2.752E-05	7.303E-03	3.885E-03	2.752E-05	3.913E-03
581700.8	4199341.83	16030.67436	0.15972	7.251E-03	2.649E-05	7.278E-03	3.872E-03	2.649E-05	3.899E-03
581679.22	4199322.28	16022.25276	0.16045	7.247E-03	2.661E-05	7.274E-03	3.870E-03	2.661E-05	3.897E-03
582093.35	4198394.02	15905.13119	0.23482	7.194E-03	3.894E-05	7.233E-03	3.842E-03	3.894E-05	3.881E-03
581582.03	4198942.4	15901.59699	0.20892	7.193E-03	3.465E-05	7.227E-03	3.841E-03	3.465E-05	3.876E-03
582179.54	4198348.44	15807.34006	0.22597	7.150E-03	3.748E-05	7.188E-03	3.818E-03	3.748E-05	3.856E-03
581611.48	4199225.13	15800.93743	0.16636	7.147E-03	2.759E-05	7.175E-03	3.817E-03	2.759E-05	3.844E-03
581891.95	4199435.76	15769.48939	0.16369	7.133E-03	2.715E-05	7.160E-03	3.809E-03	2.715E-05	3.836E-03
582293.45	4199449.19	15758.18994	0.1831	7.128E-03	3.037E-05	7.158E-03	3.806E-03	3.037E-05	3.837E-03
582049.06	4198417.62	15685.97108	0.24313	7.095E-03	4.032E-05	7.136E-03	3.789E-03	4.032E-05	3.829E-03
581604.17	4198816.49	15677.0206	0.22384	7.091E-03	3.712E-05	7.128E-03	3.787E-03	3.712E-05	3.824E-03
581575.97	4199041.31	15665.87574	0.1859	7.086E-03	3.083E-05	7.117E-03	3.784E-03	3.083E-05	3.815E-03
581575.97	4198998.46	15658.47083	0.19483	7.083E-03	3.231E-05	7.115E-03	3.782E-03	3.231E-05	3.815E-03
581710.08	4198661.16	15622.67369	0.27947	7.067E-03	4.635E-05	7.113E-03	3.774E-03	4.635E-05	3.820E-03
581575.97	4199058.11	15605.54398	0.18248	7.059E-03	3.026E-05	7.089E-03	3.770E-03	3.026E-05	3.800E-03
581865.1	4199431.86	15494.92148	0.16076	7.009E-03	2.666E-05	7.036E-03	3.743E-03	2.666E-05	3.769E-03
582323.21	4199451.13	15355.06984	0.18121	6.946E-03	3.005E-05	6.976E-03	3.709E-03	3.005E-05	3.739E-03
581583.02	4199152.1	15230.88051	0.16901	6.889E-03	2.803E-05	6.917E-03	3.679E-03	2.803E-05	3.707E-03
581633.64	4198736.84	15213.64998	0.23118	6.882E-03	3.834E-05	6.920E-03	3.675E-03	3.834E-05	3.713E-03
581871.43	4198537.93	15176.41386	0.29364	6.865E-03	4.870E-05	6.913E-03	3.666E-03	4.870E-05	3.715E-03
581663.29	4198696.94	15171.45812	0.2481	6.863E-03	4.115E-05	6.904E-03	3.665E-03	4.115E-05	3.706E-03
581598.24	4199210.59	15174.80439	0.16351	6.864E-03	2.712E-05	6.891E-03	3.665E-03	2.712E-05	3.693E-03
581577.4	4198913.76	15161.86689	0.20555	6.858E-03	3.409E-05	6.892E-03	3.662E-03	3.409E-05	3.696E-03
581843.87	4199431.13	15089.11011	0.15705	6.825E-03	2.605E-05	6.851E-03	3.645E-03	2.605E-05	3.671E-03
582021.28	4199469.44	15072.00358	0.164	6.818E-03	2.720E-05	6.845E-03	3.641E-03	2.720E-05	3.668E-03
582228.4	4199467.51	15070.75285	0.17407	6.817E-03	2.887E-05	6.846E-03	3.640E-03	2.887E-05	3.669E-03
582154.44	4198348.06	15020.07921	0.21682	6.794E-03	3.596E-05	6.830E-03	3.628E-03	3.596E-05	3.664E-03
581578.11	4198897.39	15017.73916	0.20618	6.793E-03	3.419E-05	6.827E-03	3.628E-03	3.419E-05	3.662E-03
581926.54	4198493.59	14995.97896	0.27336	6.783E-03	4.534E-05	6.828E-03	3.622E-03	4.534E-05	3.668E-03
581571.17	4199085.88	14978.54896	0.17415	6.775E-03	2.888E-05	6.804E-03	3.618E-03	2.888E-05	3.647E-03
582003.8	4198436.69	14954.2053	0.24527	6.764E-03	4.068E-05	6.805E-03	3.612E-03	4.068E-05	3.653E-03
581785.77	4198597.18	14925.2639	0.30076	6.751E-03	4.988E-05	6.801E-03	3.605E-03	4.988E-05	3.655E-03
581958.22	4198468.05	14877.42647	0.25907	6.730E-03	4.297E-05	6.772E-03	3.594E-03	4.297E-05	3.637E-03
582273.39	4199466.34	14823.17263	0.17429	6.705E-03	2.891E-05	6.734E-03	3.581E-03	2.891E-05	3.609E-03

581610	4198770.84	14804.91131	0.21737	6.697E-03	3.605E-05	6.733E-03	3.576E-03	3.605E-05	3.612E-03
582408.36	4199449.41	14672.3666	0.17861	6.637E-03	2.962E-05	6.666E-03	3.544E-03	2.962E-05	3.574E-03
581573.34	4199134.76	14658.83432	0.16627	6.631E-03	2.758E-05	6.658E-03	3.541E-03	2.758E-05	3.568E-03
582111.83	4198364.04	14635.58912	0.21813	6.620E-03	3.618E-05	6.656E-03	3.535E-03	3.618E-05	3.571E-03
581815.23	4198568.36	14402.7523	0.29276	6.515E-03	4.855E-05	6.563E-03	3.479E-03	4.855E-05	3.528E-03
581822.15	4199434.54	14388.21201	0.15014	6.508E-03	2.490E-05	6.533E-03	3.475E-03	2.490E-05	3.500E-03
582094.97	4198367.83	14298.92539	0.2161	6.468E-03	3.584E-05	6.504E-03	3.454E-03	3.584E-05	3.490E-03
581578.92	4198845.63	14265.20417	0.20388	6.453E-03	3.381E-05	6.486E-03	3.446E-03	3.381E-05	3.480E-03
581683.66	4198658.68	14207.65839	0.24704	6.427E-03	4.097E-05	6.468E-03	3.432E-03	4.097E-05	3.473E-03
582344.89	4199466.98	14200.16327	0.17215	6.423E-03	2.855E-05	6.452E-03	3.430E-03	2.855E-05	3.459E-03
581755.34	4198606.24	14183.18782	0.28118	6.416E-03	4.663E-05	6.462E-03	3.426E-03	4.663E-05	3.473E-03
581986.67	4198435.4	14125.27971	0.23738	6.389E-03	3.937E-05	6.429E-03	3.412E-03	3.937E-05	3.451E-03
582299.27	4199475.07	14107.58735	0.16939	6.381E-03	2.809E-05	6.409E-03	3.408E-03	2.809E-05	3.436E-03
582049.38	4198392.08	14097.17283	0.22019	6.377E-03	3.652E-05	6.413E-03	3.405E-03	3.652E-05	3.442E-03
581733.97	4198618.22	14054.88433	0.26979	6.357E-03	4.474E-05	6.402E-03	3.395E-03	4.474E-05	3.440E-03
581582.8	4198817.78	14047.91015	0.20148	6.354E-03	3.341E-05	6.388E-03	3.393E-03	3.341E-05	3.427E-03
582060.82	4199489.94	13974.30225	0.15739	6.321E-03	2.610E-05	6.347E-03	3.375E-03	2.610E-05	3.402E-03
581571.32	4199173.88	13879.04438	0.15755	6.278E-03	2.613E-05	6.304E-03	3.352E-03	2.613E-05	3.379E-03
582080.1	4199492.62	13874.6062	0.1574	6.276E-03	2.610E-05	6.302E-03	3.351E-03	2.610E-05	3.378E-03
581749.12	4199412.28	13779.83775	0.14384	6.233E-03	2.386E-05	6.257E-03	3.329E-03	2.386E-05	3.352E-03
581969.55	4199483.11	13737.59176	0.15229	6.214E-03	2.526E-05	6.239E-03	3.318E-03	2.526E-05	3.344E-03
581635.5	4198698.04	13703.4533	0.21755	6.199E-03	3.608E-05	6.235E-03	3.310E-03	3.608E-05	3.346E-03
582317.71	4199480.57	13662.17398	0.16628	6.180E-03	2.758E-05	6.207E-03	3.300E-03	2.758E-05	3.328E-03
581973.09	4198437.01	13647.17983	0.233	6.173E-03	3.864E-05	6.212E-03	3.296E-03	3.864E-05	3.335E-03
581794.09	4199436.01	13645.26691	0.14338	6.172E-03	2.378E-05	6.196E-03	3.296E-03	2.378E-05	3.320E-03
581552.66	4198997.78	13642.51494	0.17499	6.171E-03	2.902E-05	6.200E-03	3.295E-03	2.902E-05	3.324E-03
582014.45	4199492.38	13580.1753	0.15264	6.143E-03	2.531E-05	6.168E-03	3.280E-03	2.531E-05	3.306E-03
581713.9	4198622.41	13525.42979	0.25215	6.118E-03	4.182E-05	6.160E-03	3.267E-03	4.182E-05	3.309E-03
581553.34	4199081.42	13519.40338	0.16292	6.115E-03	2.702E-05	6.142E-03	3.266E-03	2.702E-05	3.293E-03
581607.09	4198735.55	13490.30638	0.20371	6.102E-03	3.378E-05	6.136E-03	3.259E-03	3.378E-05	3.292E-03
581933.43	4199480.18	13489.43146	0.14927	6.102E-03	2.476E-05	6.126E-03	3.258E-03	2.476E-05	3.283E-03
582112.21	4198343.49	13455.54731	0.19779	6.086E-03	3.280E-05	6.119E-03	3.250E-03	3.280E-05	3.283E-03
582029.66	4198393.05	13384.69996	0.21582	6.054E-03	3.579E-05	6.090E-03	3.233E-03	3.579E-05	3.269E-03
581549.91	4199059.14	13367.39506	0.16375	6.046E-03	2.716E-05	6.074E-03	3.229E-03	2.716E-05	3.256E-03
581587.34	4198772.46	13336.62976	0.19552	6.033E-03	3.243E-05	6.065E-03	3.221E-03	3.243E-05	3.254E-03
581892.27	4198491.97	13322.42711	0.25272	6.026E-03	4.191E-05	6.068E-03	3.218E-03	4.191E-05	3.260E-03
581661.92	4198659.79	13286.43879	0.2265	6.010E-03	3.756E-05	6.047E-03	3.209E-03	3.756E-05	3.247E-03
581627.64	4199322.39	13269.5734	0.14229	6.002E-03	2.360E-05	6.026E-03	3.205E-03	2.360E-05	3.229E-03
581613.44	4199302.47	13253.84091	0.14317	5.995E-03	2.374E-05	6.019E-03	3.201E-03	2.374E-05	3.225E-03
582291.5	4199492.54	13217.89862	0.16123	5.979E-03	2.674E-05	6.006E-03	3.193E-03	2.674E-05	3.220E-03
581913.91	4199480.91	13186.65869	0.1464	5.965E-03	2.428E-05	5.989E-03	3.185E-03	2.428E-05	3.210E-03
581768.95	4199434.06	13140.49498	0.13953	5.944E-03	2.314E-05	5.967E-03	3.174E-03	2.314E-05	3.197E-03
582094	4198347.14	13091.69366	0.19553	5.922E-03	3.243E-05	5.954E-03	3.162E-03	3.243E-05	3.195E-03
581597.98	4199281.04	13091.69496	0.14329	5.922E-03	2.376E-05	5.946E-03	3.162E-03	2.376E-05	3.186E-03
582010.14	4198398.35	12943.85476	0.21326	5.855E-03	3.537E-05	5.890E-03	3.127E-03	3.537E-05	3.162E-03
581553.58	4199149.28	12943.90994	0.15203	5.855E-03	2.521E-05	5.880E-03	3.127E-03	2.521E-05	3.152E-03
581635.02	4199340.84	12924.8094	0.13902	5.846E-03	2.306E-05	5.869E-03	3.122E-03	2.306E-05	3.145E-03
581559.82	4198843.68	12921.24478	0.18448	5.845E-03	3.060E-05	5.875E-03	3.121E-03	3.060E-05	3.152E-03
581771.2	4198572.25	12903.29314	0.26014	5.837E-03	4.314E-05	5.880E-03	3.117E-03	4.314E-05	3.160E-03
581889.26	4199479.93	12896.89384	0.14343	5.834E-03	2.379E-05	5.857E-03	3.115E-03	2.379E-05	3.139E-03
581752.75	4198582.93	12832.35033	0.25434	5.804E-03	4.218E-05	5.847E-03	3.100E-03	4.218E-05	3.142E-03
581670.14	4199379.19	12797.79701	0.13698	5.789E-03	2.272E-05	5.812E-03	3.091E-03	2.272E-05	3.114E-03
582340.36	4199494.48	12782.64246	0.15921	5.782E-03	2.640E-05	5.808E-03	3.088E-03	2.640E-05	3.114E-03
581803.9	4198547.65	12770.87292	0.26111	5.777E-03	4.330E-05	5.820E-03	3.085E-03	4.330E-05	3.128E-03
582051	4198365.89	12705.73553	0.19966	5.747E-03	3.311E-05	5.780E-03	3.069E-03	3.311E-05	3.102E-03
581539.29	4199025.89	12660.58901	0.16236	5.727E-03	2.693E-05	5.754E-03	3.058E-03	2.693E-05	3.085E-03
581865.1	4199478.47	12626.60698	0.14057	5.711E-03	2.331E-05	5.735E-03	3.050E-03	2.331E-05	3.073E-03
581581.7	4199266.07	12582.26201	0.14076	5.691E-03	2.334E-05	5.715E-03	3.039E-03	2.334E-05	3.063E-03
581747.72	4199434.79	12576.06202	0.13556	5.689E-03	2.248E-05	5.711E-03	3.038E-03	2.248E-05	3.060E-03
581571.5	4199244.58	12502.8194	0.14144	5.655E-03	2.346E-05	5.679E-03	3.020E-03	2.346E-05	3.044E-03
582270.47	4199510.01	12484.7376	0.15378	5.647E-03	2.550E-05	5.673E-03	3.016E-03	2.550E-05	3.041E-03
581943.97	4198436.38	12448.62994	0.22033	5.631E-03	3.654E-05	5.667E-03	3.007E-03	3.654E-05	3.043E-03
581536.54	4198980.29	12445.59114	0.16576	5.630E-03	2.749E-05	5.657E-03	3.006E-03	2.749E-05	3.034E-03
581557.87	4198816.81	12406.1007	0.17907	5.612E-03	2.970E-05	5.641E-03	2.997E-03	2.970E-05	3.026E-03
581865.44	4198494.56	12400.0195	0.24092	5.609E-03	3.996E-05	5.649E-03	2.995E-03	3.996E-05	3.035E-03
581609.63	4198696.11	12347.77248	0.19397	5.585E-03	3.217E-05	5.617E-03	2.983E-03	3.217E-05	3.015E-03
581584.42	4198736.19	12262.41911	0.18444	5.547E-03	3.059E-05	5.577E-03	2.962E-03	3.059E-05	2.993E-03
581681.78	4198619.44	12241.87019	0.22112	5.537E-03	3.667E-05	5.574E-03	2.957E-03	3.667E-05	2.994E-03
581635.5	4198659.79	12197.6113	0.20221	5.517E-03	3.354E-05	5.551E-03	2.946E-03	3.354E-05	2.980E-03
581537.11	4199109.97	12185.36247	0.14938	5.512E-03	2.477E-05	5.537E-03	2.943E-03	2.477E-05	2.968E-03
581840.45	4199480.42	12161.22823	0.1361	5.501E-03	2.257E-05	5.523E-03	2.938E-03	2.257E-05	2.960E-03
581993.01	4198394.15	12128.47861	0.20403	5.486E-03	3.384E-05	5.520E-03	2.930E-03	3.384E-05	2.963E-03
581723.32	4199433.08	12052.73128	0.13147	5.452E-03	2.180E-05	5.474E-03	2.911E-03	2.180E-05	2.933E-03
581645.38	4199376.64	12012.04644	0.13117	5.433E-03	2.175E-05	5.455E-03	2.901E-03	2.175E-05	2.923E-03
581532.63	4199094.65	11992.80349	0.14901	5.425E-03	2.471E-05	5.449E-03	2.897E-03	2.471E-05	2.922E-03
581728.47	4198580.67	11955.47425	0.2335	5.408E-03	3.873E-05	5.447E-03	2.888E-03	3.873E-05	2.927E-03
581969.84	4199516.18	11954.95367	0.1387	5.408E-03	2.300E-05	5.431E-03	2.888E-03	2.300E-05	2.911E-03
581554.57	4199222.66	11941.90904	0.1388	5.402E-03	2.302E-05	5.425E-03	2.885E-03	2.302E-05	2.908E-03
581528.66	4199048.17	11930.59387	0.15235	5.397E-03	2.527E-05	5.422E-03	2.882E-03	2.527E-05	2.907E-03
581929.72	4198435.92	11908.25484	0.2145	5.386E-03	3.557E-05	5.422E-03	2.876E-03	3.557E-05	2.912E-03
582040.41	4199527	11910.8065	0.1403	5.388E-03	2.327E-05	5.411E-03	2.877E-03	2.327E-05	2.900E-03
582018.47	4198369.64	11835.76675	0.19416	5.354E-03	3.220E-05	5.386E-03	2.859E-03	3.220E-05	2.891E-03
582290.53	4199522.31	11817.18022	0.14842	5.345E-03	2.462E-05	5.370E-03	2.854E-03	2.462E-05	2.879E-03
582065.94	4199531.2	11817.21641	0.14029	5.345E-03	2.327E-05	5.369E-03	2.854E-03	2.327E-05	2.878E-03
581561.11	4198770.19	11792.64419	0.17358	5.334E-03	2.879E-05	5.363E-03	2.849E-03	2.879E-05	2.877E-03
581818.74	4199481.4	11783.059	0.13156	5.330E-03	2.182E-05	5.352E-03	2.846E-03	2.182E-05	2.868E-03
581678.82	4199412.89	11709.17357	0.12847	5.296E-03	2.131E-05	5.318E-03	2.828E-03	2.131E-05	2.850E-03
581663.68	4198620.74	11690.89484	0.20792	5.288E-03	3.448E-05	5.323E-03	2.824E-03	3.448E-05	2.858E-03
582050.03	4198345.2	11671.19481	0.18024	5.279E-03	2.989E-05	5.309E-03	2.819E-03	2.989E-05	2.849E-03
581706.15	4198588.41	11654.35118	0.22125	5.272E-03	3.669E-05	5.308E-03	2.815E-03	3.669E-05	2.852E-03
581975.87	4198396.09	11645.4745	0.19992	5.268E-03	3.316E-05	5.301E-03	2.813E-03	3.316E-05	2.846E-03
582341.98	4199519.4	11641.97659	0.14857	5.266E-03	2.464E-05	5.291E-03	2.812E-03	2.464E-05	2.837E-03
581526	4199084.85	11631.55465	0.14667	5.261E-03	2.432E-05	5.286E-03	2.810E-03	2.432E-05	2.834E-03
582359.45	4199517.78	11602.50542	0.14875	5.248E-03	2.467E-05	5.273E-03	2.803E-03	2.467E-05	2.827E-03
581542.42	4199205.3	11525.62833	0.13639	5.213E-03	2.262E-05	5.236E-03	2.784E-03	2.262E-05	2.807E-03
581535.86	4198843.36	11512.07758	0.16451	5.207E-03	2.728E-05	5.235E-03	2.781E-03	2.728E-05	2.808E-03
581526.79	4199116.24	11501.62758	0.14318	5.203E-03	2.375E-05	5.226E-03	2.778E-03	2.375E-05	2.802E-03
581842.48	4198492.29	11496.83674	0.22785	5.200E-03	3.779E-05	5.238E-03	2.777E-03	3.779E-05	2.815E-03
582229.63	4199536.69	11484.82389	0.14307	5.195E-03	2.373E-05	5.219E-03	2.774E-03	2.373E-05	2.798E-03
582378.86	4199520.37	11375.40089	0.14711	5.145E-03	2.440E-05	5.170E-03	2.748E-03	2.440E-05	2.772E-03
582015.19	4199536.6	11335.52031	0.1349	5.127E-03	2.237E-05	5.150E-03	2.738E-03	2.237E-05	2.760E-03
581517.35	4199022.46	11294.88214	0.14862	5.109E-03	2.465E-05	5.134E-03	2.728E-03	2.465E-05	2.753E-03
581587.89	4198692.53	11282.24126	0.17651	5.103E-03	2.927E-05	5.133E-03	2.725E-03	2.927E-05	2.754E-03
582318.36	4199533.63	11195.5338	0.14351	5.064E-03	2.380E-05	5.088E-03	2.704E-03	2.380E-05	2.728E-03
581592.04	4199340.29	11148.19044	0.12584	5.043E-03	2.087E-05	5.064E-03	2.693E-03	2.087E-05	2.714E-03
581608.8	4198658.68	11132.68573	0.18181	5.036E-03	3.015E-05	5.066E-03	2.689E-03	3.015E-05	2.719E-03
582290.86	4199539.13	11120.17882	0.14185	5.030E-03	2.353E-05	5.054E-03	2.686E-03	2.353E-05	2.710E-03
581561.11	4198735.22	11112.72528	0.16697	5.027E-03	2.769E-05	5.054E-03	2.684E-03	2.769E-05	2.712E-03
581534.56	4198814.54	11102.21328	0.16141	5.022E-03	2.677E-05	5.049E-03	2.682E-03	2.677E-05	2.708E-03
581763.54	4199476.24	11068.87856	0.1245	5.007E-03	2.065E-05	5.027E-03	2.674E-03	2.065E-05	2.694E-03
581906.37	4198434.52	11063.06929	0.20482	5.004E-03	3.397E-05	5.038E-03	2.672E-03	3.397E-05	2.706E-03
581990.67	4198371.26	11051.54327	0.18737	4.999E-03	3.107E-05	5.030E-03	2.669E-03	3.107E-05	2.701E-03
581516.42	4199089.9	11049.83106	0.14123	4.998E-03	2.342E-05	5.022E-03	2.669E-03	2.342E-05	2.692E-03
581788.48	4199487.99	11008.70125	0.12448	4.980E-03	2.064E-05	5.000E-03	2.659E-03	2.064E-05	2.680E-03
582027.4	4198344.23	10982.20574	0.17328	4.968E-03	2.874E-05	4.996E-03	2.653E-03	2.874E-05	2.681E-03
581639.11	4198622.03	10967.67193	0.18978	4.961E-03	3.147E-05	4.992E-03	2.649E-03	3.147E-05	2.681E-03
581619.35	4199385.32	10852.48059	0.12204	4.909E-03	2.024E-05	4.929E-03	2.621E-03	2.024E-05	2.642E-03
581526.36	4199189.89	10849.64556	0.13177	4.908E-03	2.185E-05	4.929E-03	2.621E-03	2.185E-05	2.643E-03
581680.49	4198584.85	10808.38764	0.20107	4.889E-03	3.335E-05	4.922E-03	2.611E-03	3.335E-05	2.644E-03
582231.34	4199554.5	10767.89356	0.13644	4.871E-03	2.263E-05	4.893E-03	2.601E-03	2.263E-05	2.624E-03
581672.95	4199434.58	10757.05103	0.12119	4.866E-03	2.010E-05	4.886E-03	2.598E-03	2.010E-05	2.618E-03

582271.12	4199551.75	10724.77729	0.13737	4.851E-03	2.278E-05	4.874E-03	2.591E-03	2.278E-05	2.613E-03
581507.75	4199049.2	10719.93922	0.14098	4.849E-03	2.338E-05	4.872E-03	2.589E-03	2.338E-05	2.613E-03
581569.1	4199322.7	10664.11552	0.12294	4.824E-03	2.039E-05	4.844E-03	2.576E-03	2.039E-05	2.596E-03
581965.94	4199544.71	10652.63284	0.12809	4.819E-03	2.124E-05	4.840E-03	2.573E-03	2.124E-05	2.594E-03
581509.1	4199094.3	10636.09479	0.13702	4.811E-03	2.272E-05	4.834E-03	2.569E-03	2.272E-05	2.592E-03
581973.54	4198373.2	10627.71903	0.1839	4.807E-03	3.050E-05	4.838E-03	2.567E-03	3.050E-05	2.598E-03
581505	4199000.18	10621.48977	0.14443	4.804E-03	2.395E-05	4.828E-03	2.566E-03	2.395E-05	2.590E-03
581784.47	4198512.36	10615.0105	0.218	4.802E-03	3.615E-05	4.838E-03	2.564E-03	3.615E-05	2.600E-03
581754.04	4198531.78	10601.71353	0.21518	4.795E-03	3.569E-05	4.831E-03	2.561E-03	3.569E-05	2.597E-03
581888.62	4198435.92	10581.38581	0.19964	4.786E-03	3.311E-05	4.819E-03	2.556E-03	3.311E-05	2.589E-03
581534.24	4198774.07	10559.12363	0.15561	4.776E-03	2.581E-05	4.802E-03	2.551E-03	2.581E-05	2.576E-03
582357.19	4199545.61	10532.41954	0.13821	4.764E-03	2.292E-05	4.787E-03	2.544E-03	2.292E-05	2.567E-03
581555.82	4199303.56	10518.54655	0.12281	4.758E-03	2.037E-05	4.778E-03	2.541E-03	2.037E-05	2.561E-03
581731.06	4198542.47	10472.32113	0.20762	4.737E-03	3.443E-05	4.771E-03	2.530E-03	3.443E-05	2.564E-03
582020.89	4199558.83	10440.87175	0.12752	4.723E-03	2.115E-05	4.744E-03	2.522E-03	2.115E-05	2.543E-03
581563.67	4198697.21	10424.39959	0.16141	4.715E-03	2.677E-05	4.742E-03	2.518E-03	2.677E-05	2.545E-03
581938.61	4199545.91	10382.58355	0.12523	4.696E-03	2.077E-05	4.717E-03	2.508E-03	2.077E-05	2.529E-03
581586.79	4198658.96	10360.24106	0.1674	4.686E-03	2.776E-05	4.714E-03	2.503E-03	2.776E-05	2.530E-03
581932.29	4198397.15	10356.14158	0.18733	4.684E-03	3.107E-05	4.715E-03	2.502E-03	3.107E-05	2.533E-03
581542.29	4199280.83	10354.88437	0.12284	4.684E-03	2.037E-05	4.704E-03	2.501E-03	2.037E-05	2.522E-03
582156.91	4199570.36	10313.39748	0.12981	4.665E-03	2.153E-05	4.687E-03	2.491E-03	2.153E-05	2.513E-03
581510.3	4199163.19	10286.6369	0.12844	4.653E-03	2.130E-05	4.674E-03	2.485E-03	2.130E-05	2.506E-03
581651.51	4199433.31	10282.50551	0.1172	4.651E-03	1.944E-05	4.671E-03	2.484E-03	1.944E-05	2.503E-03
581837.31	4198465.46	10264.88105	0.20546	4.643E-03	3.408E-05	4.677E-03	2.479E-03	3.408E-05	2.514E-03
582001.54	4198343.26	10243.27722	0.16606	4.633E-03	2.754E-05	4.661E-03	2.474E-03	2.754E-05	2.502E-03
581909.48	4199543.81	10202.87026	0.12304	4.615E-03	2.041E-05	4.635E-03	2.464E-03	2.041E-05	2.485E-03
581593.37	4199379	10200.77473	0.11705	4.614E-03	1.941E-05	4.634E-03	2.464E-03	1.941E-05	2.483E-03
581656.57	4198584.85	10195.79467	0.18595	4.612E-03	3.084E-05	4.643E-03	2.463E-03	3.084E-05	2.494E-03
582342.63	4199557.58	10186.07895	0.13432	4.607E-03	2.228E-05	4.630E-03	2.460E-03	2.228E-05	2.483E-03
582398.28	4199549.49	10177.29106	0.13567	4.604E-03	2.250E-05	4.626E-03	2.458E-03	2.250E-05	2.481E-03
582292.8	4199565.67	10136.80152	0.13232	4.585E-03	2.194E-05	4.607E-03	2.449E-03	2.194E-05	2.470E-03
581612.61	4198620.09	10112.70969	0.17204	4.574E-03	2.853E-05	4.603E-03	2.443E-03	2.853E-05	2.471E-03
582188.14	4199575.73	10092.62899	0.12866	4.565E-03	2.134E-05	4.587E-03	2.438E-03	2.134E-05	2.459E-03
581536.18	4198737.16	10087.10956	0.1515	4.563E-03	2.513E-05	4.588E-03	2.437E-03	2.513E-05	2.462E-03
582168.13	4199576.71	10079.46091	0.12795	4.559E-03	2.122E-05	4.580E-03	2.435E-03	2.122E-05	2.456E-03
581495.4	4199071.83	10038.92327	0.1327	4.541E-03	2.201E-05	4.563E-03	2.425E-03	2.201E-05	2.447E-03
582215.72	4199576.22	10025.85158	0.12884	4.535E-03	2.137E-05	4.556E-03	2.422E-03	2.137E-05	2.443E-03
581886.96	4199543.51	9996.94251	0.12078	4.522E-03	2.003E-05	4.542E-03	2.415E-03	2.003E-05	2.435E-03
582205.96	4199577.93	9987.31065	0.12818	4.518E-03	2.126E-05	4.539E-03	2.412E-03	2.126E-05	2.434E-03
581869.7	4198433.35	9961.2281	0.19149	4.506E-03	3.176E-05	4.538E-03	2.406E-03	3.176E-05	2.438E-03
581526.97	4199264.49	9952.3929	0.12051	4.502E-03	1.999E-05	4.522E-03	2.404E-03	1.999E-05	2.424E-03
582229.63	4199577.44	9951.31963	0.12854	4.501E-03	2.132E-05	4.523E-03	2.404E-03	2.132E-05	2.425E-03
582317.06	4199568.58	9935.32429	0.13104	4.494E-03	2.173E-05	4.516E-03	2.400E-03	2.173E-05	2.422E-03
581508.99	4198814.22	9919.2499	0.14534	4.487E-03	2.410E-05	4.511E-03	2.396E-03	2.410E-05	2.420E-03
581723.3	4199488.56	9917.09644	0.11535	4.486E-03	1.913E-05	4.505E-03	2.395E-03	1.913E-05	2.415E-03
581704.19	4198542.47	9871.91756	0.19251	4.465E-03	3.193E-05	4.497E-03	2.385E-03	3.193E-05	2.416E-03
581935.1	4198380.57	9840.79171	0.17804	4.451E-03	2.953E-05	4.481E-03	2.377E-03	2.953E-05	2.407E-03
582136.17	4199584.27	9820.04209	0.12466	4.442E-03	2.067E-05	4.463E-03	2.372E-03	2.067E-05	2.393E-03
581773.47	4198496.17	9766.1408	0.20172	4.418E-03	3.345E-05	4.451E-03	2.359E-03	3.345E-05	2.392E-03
582378.54	4199565.34	9752.93927	0.13086	4.412E-03	2.170E-05	4.433E-03	2.356E-03	2.170E-05	2.378E-03
581514.49	4198772.13	9703.13518	0.14372	4.389E-03	2.384E-05	4.413E-03	2.344E-03	2.384E-05	2.368E-03
581635.88	4198584.85	9696.7248	0.17326	4.386E-03	2.873E-05	4.415E-03	2.342E-03	2.873E-05	2.371E-03
581495.54	4199148	9697.13604	0.12432	4.386E-03	2.062E-05	4.407E-03	2.342E-03	2.062E-05	2.363E-03
581979.88	4198342.62	9669.23415	0.16027	4.374E-03	2.658E-05	4.400E-03	2.336E-03	2.658E-05	2.362E-03
581906.37	4198397.15	9658.79695	0.17991	4.369E-03	2.984E-05	4.399E-03	2.333E-03	2.984E-05	2.363E-03
581510.88	4199240.23	9578.78843	0.11875	4.333E-03	1.969E-05	4.352E-03	2.314E-03	1.969E-05	2.333E-03
581866.24	4199549.82	9571.39189	0.1167	4.329E-03	1.935E-05	4.349E-03	2.312E-03	1.935E-05	2.331E-03
581571.44	4199377.2	9566.18447	0.11203	4.327E-03	1.858E-05	4.346E-03	2.311E-03	1.858E-05	2.329E-03
581560.37	4198661.71	9555.05082	0.15095	4.322E-03	2.503E-05	4.347E-03	2.308E-03	2.503E-05	2.333E-03
581623.94	4199436.63	9535.40063	0.11097	4.313E-03	1.840E-05	4.332E-03	2.303E-03	1.840E-05	2.322E-03
581483.06	4199051.94	9521.17192	0.12934	4.307E-03	2.145E-05	4.328E-03	2.300E-03	2.145E-05	2.321E-03
582294.09	4199585.08	9500.72941	0.12596	4.297E-03	2.089E-05	4.318E-03	2.295E-03	2.089E-05	2.316E-03
581854.75	4198430.31	9490.53423	0.18702	4.293E-03	3.102E-05	4.324E-03	2.292E-03	3.102E-05	2.323E-03
581840.41	4199545.31	9477.19645	0.1152	4.287E-03	1.911E-05	4.306E-03	2.289E-03	1.911E-05	2.308E-03
581684.37	4198542.51	9460.35326	0.18219	4.279E-03	3.022E-05	4.309E-03	2.285E-03	3.022E-05	2.315E-03
582013.09	4199584.95	9452.00188	0.11874	4.275E-03	1.969E-05	4.295E-03	2.283E-03	1.969E-05	2.303E-03
581731.38	4198512.04	9428.57836	0.19008	4.265E-03	3.152E-05	4.296E-03	2.277E-03	3.152E-05	2.309E-03
582272.41	4199590.26	9415.6221	0.12447	4.259E-03	2.064E-05	4.280E-03	2.274E-03	2.064E-05	2.295E-03
581589.33	4198617.83	9403.64396	0.15821	4.254E-03	2.624E-05	4.280E-03	2.271E-03	2.624E-05	2.298E-03
581501.69	4199226.19	9348.3003	0.11732	4.229E-03	1.946E-05	4.248E-03	2.258E-03	1.946E-05	2.278E-03
581533.12	4198697.21	9328.03872	0.14386	4.219E-03	2.386E-05	4.243E-03	2.253E-03	2.386E-05	2.277E-03
582321.27	4199588.64	9289.20293	0.12455	4.202E-03	2.066E-05	4.222E-03	2.244E-03	2.066E-05	2.264E-03
582407.66	4199576.34	9275.6588	0.12652	4.196E-03	2.098E-05	4.217E-03	2.241E-03	2.098E-05	2.262E-03
581909.64	4198382.43	9264.87346	0.17246	4.191E-03	2.860E-05	4.219E-03	2.238E-03	2.860E-05	2.267E-03
581482.73	4199126.95	9254.52956	0.12151	4.186E-03	2.015E-05	4.206E-03	2.235E-03	2.015E-05	2.256E-03
581473.81	4199020.06	9189.3544	0.12709	4.157E-03	2.108E-05	4.178E-03	2.220E-03	2.108E-05	2.241E-03
581615.19	4198583.89	9183.52197	0.1619	4.154E-03	2.685E-05	4.181E-03	2.218E-03	2.685E-05	2.245E-03
581813.99	4199546.51	9169.84431	0.1119	4.148E-03	1.856E-05	4.166E-03	2.215E-03	1.856E-05	2.234E-03
581510.93	4198738.78	9165.27804	0.13794	4.146E-03	2.288E-05	4.169E-03	2.214E-03	2.288E-05	2.237E-03
581673.46	4199486.66	9152.08437	0.10814	4.140E-03	1.793E-05	4.158E-03	2.211E-03	1.793E-05	2.229E-03
581930.19	4198362.58	9133.3556	0.16435	4.131E-03	2.726E-05	4.159E-03	2.206E-03	2.726E-05	2.233E-03
582354.27	4199590.26	9107.26083	0.12352	4.120E-03	2.049E-05	4.140E-03	2.200E-03	2.049E-05	2.220E-03
581533.96	4199338.71	9099.53484	0.10999	4.116E-03	1.824E-05	4.134E-03	2.198E-03	1.824E-05	2.216E-03
581488.27	4198814.22	9097.25428	0.13417	4.115E-03	2.225E-05	4.137E-03	2.197E-03	2.225E-05	2.220E-03
581833.73	4198431.01	9033.86364	0.18264	4.086E-03	3.029E-05	4.117E-03	2.182E-03	3.029E-05	2.212E-03
581661.09	4198543.16	9021.09241	0.17082	4.081E-03	2.833E-05	4.109E-03	2.179E-03	2.833E-05	2.207E-03
581966.24	4199590.36	9013.15045	0.11404	4.077E-03	1.891E-05	4.096E-03	2.177E-03	1.891E-05	2.196E-03
581487.39	4199204.23	8967.09467	0.11498	4.056E-03	1.907E-05	4.075E-03	2.166E-03	1.907E-05	2.185E-03
581721.79	4199518.59	8955.77717	0.10763	4.051E-03	1.785E-05	4.069E-03	2.163E-03	1.785E-05	2.181E-03
581707.43	4198510.42	8933.07128	0.17794	4.041E-03	2.951E-05	4.070E-03	2.158E-03	2.951E-05	2.187E-03
582230.36	4199610.14	8933.01231	0.11843	4.041E-03	1.964E-05	4.060E-03	2.158E-03	1.964E-05	2.177E-03
581539.18	4198662.81	8930.32712	0.14016	4.039E-03	2.325E-05	4.063E-03	2.157E-03	2.325E-05	2.180E-03
581791.16	4199547.42	8910.24636	0.10908	4.030E-03	1.809E-05	4.048E-03	2.152E-03	1.809E-05	2.170E-03
581990.56	4199600.27	8843.23539	0.11291	4.000E-03	1.873E-05	4.019E-03	2.136E-03	1.873E-05	2.155E-03
582136.17	4199615.26	8838.78155	0.11532	3.998E-03	1.913E-05	4.017E-03	2.135E-03	1.913E-05	2.154E-03
581515.33	4199315.22	8828.70272	0.109	3.994E-03	1.808E-05	4.012E-03	2.133E-03	1.808E-05	2.151E-03
581591.18	4199435	8824.26246	0.10495	3.991E-03	1.741E-05	4.009E-03	2.131E-03	1.741E-05	2.149E-03
582192.78	4199617.46	8774.87363	0.11592	3.969E-03	1.923E-05	3.988E-03	2.120E-03	1.923E-05	2.139E-03
582274.36	4199612.26	8771.3898	0.1179	3.968E-03	1.955E-05	3.987E-03	2.119E-03	1.955E-05	2.138E-03
581755.98	4198474.48	8744.00978	0.1817	3.955E-03	3.013E-05	3.985E-03	2.112E-03	3.013E-05	2.142E-03
581811.55	4198435.92	8718.97991	0.17832	3.944E-03	2.957E-05	3.973E-03	2.106E-03	2.957E-05	2.136E-03
581562.18	4198618.8	8718.71119	0.14183	3.944E-03	2.352E-05	3.967E-03	2.106E-03	2.352E-05	2.130E-03
582405.39	4199596.73	8711.12974	0.12045	3.940E-03	1.998E-05	3.960E-03	2.104E-03	1.998E-05	2.124E-03
581487.62	4198770.51	8705.9705	0.12983	3.938E-03	2.153E-05	3.960E-03	2.103E-03	2.153E-05	2.124E-03
581588.36	4198589.06	8699.63818	0.15019	3.935E-03	2.491E-05	3.960E-03	2.101E-03	2.491E-05	2.126E-03
582381.78	4199601.26	8688.38461	0.1197	3.930E-03	1.985E-05	3.950E-03	2.099E-03	1.985E-05	2.119E-03
581465.81	4199102.64	8685.32658	0.11696	3.929E-03	1.940E-05	3.948E-03	2.098E-03	1.940E-05	2.117E-03
581940.11	4199595.76	8681.28436	0.11062	3.927E-03	1.835E-05	3.945E-03	2.097E-03	1.835E-05	2.115E-03
582176.92	4199621.61	8666.91255	0.11448	3.920E-03	1.899E-05	3.939E-03	2.093E-03	1.899E-05	2.112E-03
582341.98	4199608.05	8663.73789	0.1185	3.919E-03	1.965E-05	3.939E-03	2.093E-03	1.965E-05	2.112E-03
581502.57	4199294.8	8660.08285	0.10837	3.917E-03	1.797E-05	3.935E-03	2.092E-03	1.797E-05	2.110E-03
581932.76	4198344.83	8653.71647	0.15148	3.914E-03	2.512E-05	3.939E-03	2.090E-03	2.512E-05	2.115E-03
581915.19	4199590.96	8655.22361	0.10993	3.915E-03	1.823E-05	3.933E-03	2.091E-03	1.823E-05	2.109E-03
581637.98	4199482.57	8654.5475	0.10344	3.915E-03	1.716E-05	3.932E-03	2.090E-03	1.716E-05	2.108E-03
582154.96	4199622.58	8639.58342	0.11375	3.908E-03	1.887E-05	3.927E-03	2.087E-03	1.887E-05	2.106E-03
582212.55	4199621.61	8639.11992	0.11501	3.908E-03	1.907E-05	3.927E-03	2.087E-03	1.907E-05	2.106E-03
582297.65	4199615.17	8625.23621	0.11696	3.901E-03	1.940E-05	3.921E-03	2.083E-03	1.940E-05	2.103E-03
581762.94	4199547.12	8617.82936	0.10589	3.898E-03	1.756E-05	3.916E-03	2.082E-03	1.756E-05	2.099E-03
581860.83	4198397.15	8611.55378	0.16749	3.895E-03	2.778E-05	3.923E-03	2.080E-03	2.778E-05	2.108E-03
581640.08	4198542.19	8606.06686	0.16	3.893E-03	2.654E-05	3.919E-03	2.079E-03	2.654E-05	2.105E-03
581541.1	4199381.7	8603.9803	0.10436	3.892E-03	1.731E-05	3.909E-03	2.078E-03	1.731E-05	2.096E-03

582316.74	4199616.14	8539.0834	0.11653	3.862E-03	1.933E-05	3.882E-03	2.063E-03	1.933E-05	2.082E-03
581907.3	4198359.55	8536.61492	0.15677	3.861E-03	2.600E-05	3.887E-03	2.062E-03	2.600E-05	2.088E-03
581892.97	4199589.76	8528.97067	0.10836	3.858E-03	1.797E-05	3.876E-03	2.060E-03	1.797E-05	2.078E-03
581518.14	4199345.09	8513.61874	0.10496	3.851E-03	1.741E-05	3.868E-03	2.056E-03	1.741E-05	2.074E-03
581684.04	4198508.57	8483.21793	0.16664	3.837E-03	2.764E-05	3.865E-03	2.049E-03	2.764E-05	2.077E-03
582229.87	4199626.97	8470.49285	0.11368	3.831E-03	1.885E-05	3.850E-03	2.046E-03	1.885E-05	2.065E-03
581470.28	4199184.06	8467.47025	0.11089	3.830E-03	1.839E-05	3.848E-03	2.045E-03	1.839E-05	2.064E-03
581507.8	4198691.71	8454.57026	0.13075	3.824E-03	2.168E-05	3.846E-03	2.042E-03	2.168E-05	2.064E-03
581490.21	4198735.22	8436.82672	0.12801	3.816E-03	2.123E-05	3.837E-03	2.038E-03	2.123E-05	2.059E-03
581456.47	4199081.81	8403.02085	0.11552	3.801E-03	1.916E-05	3.820E-03	2.030E-03	1.916E-05	2.049E-03
582356.21	4199617.43	8368.55964	0.11565	3.785E-03	1.918E-05	3.805E-03	2.021E-03	1.918E-05	2.041E-03
581674.74	4199518.06	8347.6347	0.10134	3.776E-03	1.681E-05	3.793E-03	2.016E-03	1.681E-05	2.033E-03
581487.76	4199278.72	8345.65752	0.106	3.775E-03	1.758E-05	3.793E-03	2.016E-03	1.758E-05	2.033E-03
581733.65	4198471.57	8292.64576	0.17107	3.751E-03	2.837E-05	3.779E-03	2.003E-03	2.837E-05	2.031E-03
581868.04	4199591.86	8283.97954	0.10564	3.747E-03	1.752E-05	3.765E-03	2.001E-03	1.752E-05	2.019E-03
581564.96	4199435.51	8232.98061	0.09986	3.724E-03	1.656E-05	3.741E-03	1.989E-03	1.656E-05	2.005E-03
581727.8	4199548.02	8215.38628	0.10158	3.716E-03	1.685E-05	3.733E-03	1.984E-03	1.685E-05	2.001E-03
581515.24	4198659.51	8210.44856	0.12828	3.714E-03	2.127E-05	3.735E-03	1.983E-03	2.127E-05	2.005E-03
581459.73	4199166.45	8191.31376	0.10906	3.705E-03	1.809E-05	3.723E-03	1.979E-03	1.809E-05	1.997E-03
582404.89	4199617.33	8187.23772	0.11471	3.703E-03	1.902E-05	3.722E-03	1.978E-03	1.902E-05	1.997E-03
581540.2	4198618.8	8184.71636	0.12819	3.702E-03	2.126E-05	3.723E-03	1.977E-03	2.126E-05	1.998E-03
581865.26	4198377.53	8176.59181	0.15898	3.699E-03	2.637E-05	3.725E-03	1.975E-03	2.637E-05	2.001E-03
581612.61	4198544.45	8163.39963	0.14864	3.693E-03	2.465E-05	3.717E-03	1.972E-03	2.465E-05	1.997E-03
581662.71	4198509.22	8161.84251	0.15749	3.692E-03	2.612E-05	3.718E-03	1.971E-03	2.612E-05	1.998E-03
581841.44	4198394.34	8159.58732	0.16126	3.691E-03	2.674E-05	3.718E-03	1.971E-03	2.674E-05	1.998E-03
582432.25	4199614.85	8140.96003	0.11468	3.682E-03	1.902E-05	3.701E-03	1.966E-03	1.902E-05	1.985E-03
581906.84	4198343.9	8102.34937	0.14543	3.665E-03	2.412E-05	3.689E-03	1.957E-03	2.412E-05	1.981E-03
581562.18	4198586.15	8070.01087	0.13505	3.650E-03	2.240E-05	3.673E-03	1.949E-03	2.240E-05	1.972E-03
581519.47	4199379	8069.45438	0.10005	3.650E-03	1.659E-05	3.667E-03	1.949E-03	1.659E-05	1.966E-03
581472.44	4199254.47	8059.75223	0.10444	3.646E-03	1.732E-05	3.663E-03	1.947E-03	1.732E-05	1.964E-03
581841.01	4199593.66	8037.6553	0.10281	3.636E-03	1.705E-05	3.653E-03	1.941E-03	1.705E-05	1.959E-03
581805.94	4198413.96	8030.58319	0.16571	3.632E-03	2.748E-05	3.660E-03	1.940E-03	2.748E-05	1.967E-03
581600.71	4199484.11	7981.57471	0.09722	3.610E-03	1.612E-05	3.626E-03	1.928E-03	1.612E-05	1.944E-03
581488.54	4198696.39	7968.95813	0.12289	3.605E-03	2.038E-05	3.625E-03	1.925E-03	2.038E-05	1.945E-03
581547.9	4199433.48	7899.81988	0.09704	3.573E-03	1.609E-05	3.589E-03	1.908E-03	1.609E-05	1.924E-03
581438.46	4199060.54	7854.77396	0.11006	3.553E-03	1.825E-05	3.571E-03	1.897E-03	1.825E-05	1.916E-03
581459.77	4198768.89	7826.37068	0.11759	3.540E-03	1.950E-05	3.560E-03	1.890E-03	1.950E-05	1.910E-03
581706.78	4198468.66	7820.19254	0.15948	3.537E-03	2.645E-05	3.564E-03	1.889E-03	2.645E-05	1.915E-03
581683.42	4199546.64	7772.10343	0.09665	3.516E-03	1.603E-05	3.532E-03	1.877E-03	1.603E-05	1.893E-03
581841.44	4198378	7760.05765	0.15379	3.510E-03	2.551E-05	3.536E-03	1.874E-03	2.551E-05	1.900E-03
582146.9	4199657.72	7725.31999	0.10442	3.494E-03	1.732E-05	3.512E-03	1.866E-03	1.732E-05	1.883E-03
581587.07	4198544.77	7721.92718	0.13307	3.493E-03	2.207E-05	3.515E-03	1.865E-03	2.207E-05	1.887E-03
581634.59	4198508.57	7714.13039	0.14642	3.489E-03	2.428E-05	3.514E-03	1.863E-03	2.428E-05	1.888E-03
581457.13	4199236.34	7709.81351	0.10188	3.487E-03	1.690E-05	3.504E-03	1.862E-03	1.690E-05	1.879E-03
581863.16	4198359.55	7700.9578	0.15038	3.483E-03	2.494E-05	3.508E-03	1.860E-03	2.494E-05	1.885E-03
581441.93	4199148	7694.22714	0.10464	3.480E-03	1.735E-05	3.498E-03	1.859E-03	1.735E-05	1.876E-03
582185.7	4199659.92	7687.38606	0.10465	3.477E-03	1.736E-05	3.495E-03	1.857E-03	1.736E-05	1.874E-03
582167.89	4199660.41	7673.79805	0.10421	3.471E-03	1.728E-05	3.488E-03	1.854E-03	1.728E-05	1.871E-03
581515.63	4198619.44	7633.04318	0.11873	3.453E-03	1.969E-05	3.472E-03	1.844E-03	1.969E-05	1.863E-03
582206.45	4199662.6	7619.11212	0.10429	3.446E-03	1.730E-05	3.464E-03	1.840E-03	1.730E-05	1.858E-03
581687.28	4198470.43	7595.35162	0.15288	3.436E-03	2.535E-05	3.461E-03	1.835E-03	2.535E-05	1.860E-03
581792.36	4199596.37	7594.22275	0.09771	3.435E-03	1.620E-05	3.451E-03	1.834E-03	1.620E-05	1.851E-03
581428	4199033.85	7585.6612	0.10764	3.431E-03	1.785E-05	3.449E-03	1.832E-03	1.785E-05	1.850E-03
581460.42	4198735.87	7584.2548	0.11572	3.431E-03	1.919E-05	3.450E-03	1.832E-03	1.919E-05	1.851E-03
581812.79	4199603.27	7583.57276	0.09808	3.430E-03	1.627E-05	3.447E-03	1.832E-03	1.627E-05	1.848E-03
581538.26	4198585.82	7579.40356	0.12191	3.428E-03	2.022E-05	3.449E-03	1.831E-03	2.022E-05	1.851E-03
581482.14	4199341.26	7570.97664	0.09642	3.425E-03	1.599E-05	3.441E-03	1.829E-03	1.599E-05	1.845E-03
582300.82	4199658.73	7567.27868	0.10559	3.423E-03	1.751E-05	3.440E-03	1.828E-03	1.751E-05	1.845E-03
582223.53	4199664.8	7556.18893	0.10394	3.418E-03	1.724E-05	3.435E-03	1.825E-03	1.724E-05	1.842E-03
581767.14	4199590.96	7524.36704	0.09647	3.404E-03	1.600E-05	3.420E-03	1.818E-03	1.600E-05	1.834E-03
581487.99	4198658.96	7520.94936	0.11724	3.402E-03	1.944E-05	3.421E-03	1.817E-03	1.944E-05	1.836E-03
582065.98	4199660.58	7512.10043	0.10125	3.398E-03	1.679E-05	3.415E-03	1.815E-03	1.679E-05	1.831E-03
582391	4199651.3	7468.93393	0.10637	3.378E-03	1.764E-05	3.396E-03	1.804E-03	1.764E-05	1.822E-03
581616.16	4198509.22	7455.80529	0.13822	3.372E-03	2.292E-05	3.395E-03	1.801E-03	2.292E-05	1.824E-03
581806.88	4198388.27	7443.81219	0.15434	3.367E-03	2.560E-05	3.393E-03	1.798E-03	2.560E-05	1.824E-03
581444.37	4199218.73	7433.36541	0.0998	3.362E-03	1.655E-05	3.379E-03	1.796E-03	1.655E-05	1.812E-03
581467.08	4198694.19	7391.39916	0.11426	3.343E-03	1.895E-05	3.362E-03	1.785E-03	1.895E-05	1.804E-03
582148.61	4199672.36	7389.20183	0.10098	3.342E-03	1.675E-05	3.359E-03	1.785E-03	1.675E-05	1.802E-03
582036.88	4199662.88	7371.41163	0.09956	3.334E-03	1.651E-05	3.351E-03	1.781E-03	1.651E-05	1.797E-03
581419.33	4199014.86	7362.48658	0.10529	3.330E-03	1.746E-05	3.348E-03	1.778E-03	1.746E-05	1.796E-03
582364.32	4199660.76	7355.38711	0.10454	3.327E-03	1.734E-05	3.344E-03	1.777E-03	1.734E-05	1.794E-03
581565.74	4198543.8	7344.81539	0.12387	3.322E-03	2.054E-05	3.343E-03	1.774E-03	2.054E-05	1.795E-03
581520.14	4199431.95	7339.74884	0.09221	3.320E-03	1.529E-05	3.335E-03	1.773E-03	1.529E-05	1.788E-03
582326.15	4199667.18	7327.5599	0.10344	3.314E-03	1.716E-05	3.332E-03	1.770E-03	1.716E-05	1.787E-03
581419.7	4199048.41	7323.68672	0.10397	3.313E-03	1.724E-05	3.330E-03	1.769E-03	1.724E-05	1.786E-03
581426.74	4199127.6	7319.2735	0.10111	3.311E-03	1.677E-05	3.328E-03	1.768E-03	1.677E-05	1.785E-03
581689.03	4199570.38	7306.7944	0.09268	3.305E-03	1.537E-05	3.320E-03	1.765E-03	1.537E-05	1.780E-03
581862.93	4198340.86	7282.63561	0.14254	3.294E-03	2.364E-05	3.318E-03	1.759E-03	2.364E-05	1.783E-03
581840.51	4198357.21	7281.85969	0.14484	3.294E-03	2.402E-05	3.318E-03	1.759E-03	2.402E-05	1.783E-03
582420.34	4199655.96	7276.81921	0.1047	3.292E-03	1.736E-05	3.309E-03	1.758E-03	1.736E-05	1.775E-03
581594.84	4199516.78	7267.77693	0.09072	3.287E-03	1.505E-05	3.302E-03	1.756E-03	1.505E-05	1.771E-03
581786.09	4198394.81	7264.84297	0.15336	3.286E-03	2.543E-05	3.312E-03	1.755E-03	2.543E-05	1.780E-03
581486.99	4199381.59	7258.07071	0.09266	3.283E-03	1.537E-05	3.298E-03	1.753E-03	1.537E-05	1.769E-03
582438.62	4199654.37	7248.2914	0.10466	3.279E-03	1.736E-05	3.296E-03	1.751E-03	1.736E-05	1.768E-03
581987.56	4199660.33	7244.93343	0.09783	3.277E-03	1.622E-05	3.293E-03	1.750E-03	1.622E-05	1.766E-03
581660.77	4198469.78	7240.78516	0.1431	3.275E-03	2.373E-05	3.299E-03	1.749E-03	2.373E-05	1.773E-03
582013.39	4199665.13	7238.01988	0.09801	3.274E-03	1.625E-05	3.290E-03	1.748E-03	1.625E-05	1.765E-03
581518.22	4198587.44	7215.62825	0.11511	3.264E-03	1.909E-05	3.283E-03	1.743E-03	1.909E-05	1.762E-03
582228.9	4199682.12	7175.08282	0.09993	3.246E-03	1.657E-05	3.262E-03	1.733E-03	1.657E-05	1.750E-03
581411.33	4198993.26	7162.91933	0.10316	3.240E-03	1.711E-05	3.257E-03	1.730E-03	1.711E-05	1.747E-03
581430.84	4199197.29	7155.81578	0.09763	3.237E-03	1.619E-05	3.253E-03	1.728E-03	1.619E-05	1.745E-03
581434.84	4198768.25	7153.09749	0.10818	3.236E-03	1.794E-05	3.254E-03	1.728E-03	1.794E-05	1.746E-03
581742.81	4199599.67	7141.82803	0.09243	3.230E-03	1.533E-05	3.246E-03	1.725E-03	1.533E-05	1.740E-03
581592.57	4198509.54	7123.12102	0.12813	3.222E-03	2.125E-05	3.243E-03	1.721E-03	2.125E-05	1.742E-03
581964.14	4199661.23	7123.32041	0.09639	3.222E-03	1.599E-05	3.238E-03	1.721E-03	1.599E-05	1.737E-03
582409.42	4199665.89	7115.12832	0.10264	3.218E-03	1.702E-05	3.235E-03	1.719E-03	1.702E-05	1.736E-03
582192.29	4199686.03	7113.91401	0.09868	3.218E-03	1.637E-05	3.234E-03	1.718E-03	1.637E-05	1.735E-03
582146.17	4199685.3	7106.617	0.09799	3.215E-03	1.625E-05	3.231E-03	1.717E-03	1.625E-05	1.733E-03
581550.3	4199485.99	7103.3296	0.08917	3.213E-03	1.479E-05	3.228E-03	1.716E-03	1.479E-05	1.731E-03
582212.3	4199686.52	7097.69477	0.09881	3.211E-03	1.639E-05	3.227E-03	1.714E-03	1.639E-05	1.731E-03
582171.55	4199687.01	7088.52314	0.09812	3.206E-03	1.627E-05	3.223E-03	1.712E-03	1.627E-05	1.728E-03
581490.1	4198617.5	7067.46034	0.10957	3.197E-03	1.817E-05	3.215E-03	1.707E-03	1.817E-05	1.725E-03
582389.99	4199672.24	7051.38227	0.10154	3.190E-03	1.684E-05	3.206E-03	1.703E-03	1.684E-05	1.720E-03
582292.71	4199684.74	7046.1289	0.09961	3.187E-03	1.652E-05	3.204E-03	1.702E-03	1.652E-05	1.719E-03
581454.32	4199322.62	7038.59222	0.09187	3.184E-03	1.524E-05	3.199E-03	1.700E-03	1.524E-05	1.715E-03
581465.15	4198661.44	7027.51818	0.1094	3.179E-03	1.814E-05	3.197E-03	1.697E-03	1.814E-05	1.716E-03
581830.5	4199633.3	7017.51004	0.09326	3.174E-03	1.547E-05	3.190E-03	1.695E-03	1.547E-05	1.711E-03
581413.5	4199111.32	7009.56183	0.09782	3.171E-03	1.622E-05	3.187E-03	1.693E-03	1.622E-05	1.709E-03
581542.46	4198543.48	6962.00275	0.11612	3.149E-03	1.926E-05	3.168E-03	1.682E-03	1.926E-05	1.701E-03
581436.79	4198731.34	6959.14556	0.10686	3.148E-03	1.772E-05	3.166E-03	1.681E-03	1.772E-05	1.699E-03
581444.62	4199300.42	6957.24208	0.09194	3.147E-03	1.525E-05	3.162E-03	1.681E-03	1.525E-05	1.696E-03
581940.11	4199663.93	6954.40421	0.09446	3.146E-03	1.567E-05	3.161E-03	1.680E-03	1.567E-05	1.695E-03
581636.53	4198470.1	6946.87	0.13549	3.142E-03	2.247E-05	3.165E-03	1.678E-03	2.247E-05	1.700E-03
581806.17	4198363.52	6919.84157	0.14401	3.130E-03	2.388E-05	3.154E-03	1.671E-03	2.388E-05	1.695E-03
581405.32	4199060.39	6920.69827	0.09836	3.130E-03	1.631E-05	3.147E-03	1.672E-03	1.631E-05	1.688E-03
581841.21	4198338.06	6902.47326	0.13751	3.122E-03	2.281E-05	3.145E-03	1.667E-03	2.281E-05	1.690E-03
581711.52	4198421.94	6881.24032	0.14247	3.113E-03	2.363E-05	3.136E-03	1.662E-03	2.363E-05	1.686E-03
581696.33	4198430.67	6878.09702	0.14102	3.111E-03	2.339E-05	3.135E-03	1.661E-03	2.339E-05	1.685E-03
581467.85	4199379.04	6864.53921	0.0889	3.105E-03	1.474E-05	3.120E-03	1.658E-03	1.474E-05	1.673E-03
581399.98	4199020.94	6852.39546	0.09816	3.100E-03	1.628E-05	3.116E-03	1.655E-03	1.628E-05	1.671E-03
581597.39	4199542.82	6847.42349	0.08687	3.097E-03	1.441E-05	3.112E-03	1.654E-03	1.441E-05	1.668E-03

581916.09	4199663.93	6839.23012	0.09302	3.094E-03	1.543E-05	3.109E-03	1.652E-03	1.543E-05	1.667E-03
581691.84	4199595.4	6831.45335	0.08842	3.090E-03	1.466E-05	3.105E-03	1.650E-03	1.466E-05	1.665E-03
582080.79	4199693.77	6816.17078	0.09434	3.083E-03	1.565E-05	3.099E-03	1.646E-03	1.565E-05	1.662E-03
581397.66	4198973.73	6815.89899	0.09946	3.083E-03	1.650E-05	3.100E-03	1.646E-03	1.650E-05	1.663E-03
581413.99	4199171.76	6813.22231	0.09462	3.082E-03	1.569E-05	3.098E-03	1.646E-03	1.569E-05	1.661E-03
581530.13	4199483.19	6812.45961	0.08654	3.081E-03	1.435E-05	3.096E-03	1.646E-03	1.435E-05	1.660E-03
581442.03	4198693.64	6805.89138	0.10495	3.079E-03	1.741E-05	3.096E-03	1.644E-03	1.741E-05	1.661E-03
582326.15	4199694.2	6801.84447	0.09744	3.077E-03	1.616E-05	3.093E-03	1.643E-03	1.616E-05	1.659E-03
581893.27	4199663.33	6737.82762	0.0917	3.048E-03	1.521E-05	3.063E-03	1.628E-03	1.521E-05	1.643E-03
581400.48	4199088.75	6735.52786	0.09538	3.047E-03	1.582E-05	3.063E-03	1.627E-03	1.582E-05	1.643E-03
581568	4198506.63	6733.47867	0.11715	3.046E-03	1.943E-05	3.065E-03	1.626E-03	1.943E-05	1.646E-03
581781.42	4198370.76	6723.85267	0.14261	3.041E-03	2.365E-05	3.065E-03	1.624E-03	2.365E-05	1.648E-03
581551.58	4199513.05	6715.44508	0.08539	3.038E-03	1.416E-05	3.052E-03	1.622E-03	1.416E-05	1.636E-03
581491.71	4198584.85	6695.5688	0.10625	3.029E-03	1.762E-05	3.046E-03	1.617E-03	1.762E-05	1.635E-03
581485.72	4199431.88	6683.62162	0.08608	3.023E-03	1.428E-05	3.037E-03	1.614E-03	1.428E-05	1.629E-03
582292.71	4199703.99	6679.35762	0.09546	3.021E-03	1.583E-05	3.037E-03	1.613E-03	1.583E-05	1.629E-03
582461.87	4199680.99	6674.63806	0.09824	3.019E-03	1.629E-05	3.035E-03	1.612E-03	1.629E-05	1.629E-03
581426.75	4199281.78	6641.14569	0.08918	3.004E-03	1.479E-05	3.019E-03	1.604E-03	1.479E-05	1.619E-03
581610.99	4198468.81	6619.79525	0.12184	2.994E-03	2.021E-05	3.015E-03	1.599E-03	2.021E-05	1.619E-03
581865.34	4199663.33	6594.61837	0.08986	2.983E-03	1.490E-05	2.998E-03	1.593E-03	1.490E-05	1.608E-03
581465.53	4198617.83	6593.25697	0.10192	2.982E-03	1.690E-05	2.999E-03	1.593E-03	1.690E-05	1.609E-03
581808.98	4198343.66	6585.11647	0.13688	2.979E-03	2.270E-05	3.001E-03	1.591E-03	2.270E-05	1.613E-03
582385.26	4199698.59	6584.85438	0.09597	2.979E-03	1.592E-05	2.994E-03	1.591E-03	1.592E-05	1.606E-03
581391.8	4199066.18	6579.94284	0.09378	2.976E-03	1.555E-05	2.992E-03	1.589E-03	1.555E-05	1.605E-03
582223.31	4199713.23	6573.6241	0.09321	2.973E-03	1.546E-05	2.989E-03	1.588E-03	1.546E-05	1.603E-03
581605.56	4199567.07	6541.65433	0.08409	2.959E-03	1.395E-05	2.973E-03	1.580E-03	1.395E-05	1.594E-03
582352.16	4199706.02	6536.05566	0.09481	2.956E-03	1.572E-05	2.972E-03	1.579E-03	1.572E-05	1.595E-03
582402.82	4199699.26	6527.59239	0.0956	2.953E-03	1.586E-05	2.968E-03	1.577E-03	1.586E-05	1.593E-03
581841.31	4199662.73	6481.38904	0.08834	2.932E-03	1.465E-05	2.946E-03	1.566E-03	1.465E-05	1.580E-03
582103.51	4199713.68	6475.23586	0.09093	2.929E-03	1.508E-05	2.944E-03	1.564E-03	1.508E-05	1.579E-03
581513.69	4198539.92	6467.64297	0.10687	2.926E-03	1.772E-05	2.943E-03	1.562E-03	1.772E-05	1.580E-03
581397.4	4199155.93	6462.36865	0.09105	2.923E-03	1.510E-05	2.938E-03	1.561E-03	1.510E-05	1.576E-03
581545.37	4198507.92	6452.93402	0.11085	2.919E-03	1.838E-05	2.937E-03	1.559E-03	1.838E-05	1.577E-03
581438.18	4198659.51	6452.39692	0.09833	2.919E-03	1.631E-05	2.935E-03	1.559E-03	1.631E-05	1.575E-03
581700.78	4199620.42	6437.62316	0.08495	2.912E-03	1.409E-05	2.926E-03	1.555E-03	1.409E-05	1.569E-03
581395.99	4198803.86	6420.26381	0.09741	2.904E-03	1.616E-05	2.920E-03	1.551E-03	1.616E-05	1.567E-03
582069.81	4199713.43	6410.12505	0.09002	2.900E-03	1.493E-05	2.914E-03	1.548E-03	1.493E-05	1.563E-03
581393.08	4198818.11	6408.72133	0.09725	2.899E-03	1.613E-05	2.915E-03	1.548E-03	1.613E-05	1.564E-03
582460.87	4199697.88	6390.4904	0.09482	2.891E-03	1.573E-05	2.906E-03	1.544E-03	1.573E-05	1.559E-03
582290.69	4199720.54	6389.79792	0.09209	2.890E-03	1.527E-05	2.906E-03	1.543E-03	1.527E-05	1.559E-03
581399.23	4198777.96	6383.18119	0.0971	2.887E-03	1.610E-05	2.903E-03	1.542E-03	1.610E-05	1.558E-03
581810.08	4199659.73	6379.05385	0.08674	2.885E-03	1.439E-05	2.900E-03	1.541E-03	1.439E-05	1.555E-03
581669.5	4198418.71	6371.55623	0.12986	2.882E-03	2.154E-05	2.904E-03	1.539E-03	2.154E-05	1.561E-03
581411.44	4199265.19	6371.06343	0.08694	2.882E-03	1.442E-05	2.896E-03	1.539E-03	1.442E-05	1.553E-03
581389.41	4199127.6	6370.51248	0.09	2.882E-03	1.493E-05	2.897E-03	1.539E-03	1.493E-05	1.554E-03
581380.73	4199046	6364.50855	0.09151	2.879E-03	1.518E-05	2.894E-03	1.537E-03	1.518E-05	1.553E-03
581587.39	4198469.46	6361.73962	0.11501	2.878E-03	1.907E-05	2.897E-03	1.537E-03	1.907E-05	1.556E-03
581710.11	4198393.87	6354.09667	0.13235	2.874E-03	2.195E-05	2.896E-03	1.535E-03	2.195E-05	1.557E-03
581442.58	4199378.53	6352.04698	0.08385	2.873E-03	1.391E-05	2.887E-03	1.534E-03	1.391E-05	1.548E-03
582325.81	4199720.88	6336.83241	0.09201	2.866E-03	1.526E-05	2.882E-03	1.531E-03	1.526E-05	1.546E-03
581553.68	4199541.72	6330.54494	0.08165	2.864E-03	1.354E-05	2.877E-03	1.529E-03	1.354E-05	1.543E-03
581782.35	4198344.36	6273.56296	0.13271	2.838E-03	2.201E-05	2.860E-03	1.515E-03	2.201E-05	1.537E-03
581494.91	4199482.17	6272.90584	0.08146	2.837E-03	1.351E-05	2.851E-03	1.515E-03	1.351E-05	1.529E-03
581959.27	4199703.22	6260.78511	0.08769	2.832E-03	1.454E-05	2.846E-03	1.512E-03	1.454E-05	1.527E-03
582017.73	4199713.94	6259.8433	0.08812	2.832E-03	1.461E-05	2.846E-03	1.512E-03	1.461E-05	1.527E-03
581612.71	4199589.27	6257.38752	0.08154	2.830E-03	1.352E-05	2.844E-03	1.511E-03	1.352E-05	1.525E-03
582401.13	4199716.49	6248.97425	0.09221	2.827E-03	1.529E-05	2.842E-03	1.509E-03	1.529E-05	1.525E-03
581460.7	4199432.39	6229.03925	0.08183	2.818E-03	1.357E-05	2.831E-03	1.505E-03	1.357E-05	1.518E-03
581792.67	4199663.33	6221.4275	0.08486	2.814E-03	1.407E-05	2.828E-03	1.503E-03	1.407E-05	1.517E-03
581372.27	4199025.6	6210.75057	0.08995	2.809E-03	1.492E-05	2.824E-03	1.500E-03	1.492E-05	1.515E-03
581463.91	4198581.62	6191.34482	0.09792	2.801E-03	1.624E-05	2.817E-03	1.496E-03	1.624E-05	1.512E-03
581977.14	4199710.62	6190.07493	0.08711	2.800E-03	1.445E-05	2.814E-03	1.495E-03	1.445E-05	1.510E-03
582459.28	4199711.19	6182.23493	0.09226	2.796E-03	1.530E-05	2.812E-03	1.493E-03	1.530E-05	1.509E-03
582218.09	4199736.05	6178.28244	0.0887	2.795E-03	1.471E-05	2.809E-03	1.492E-03	1.471E-05	1.507E-03
581394.51	4198753.81	6174.10796	0.09478	2.793E-03	1.572E-05	2.808E-03	1.491E-03	1.572E-05	1.507E-03
581490.1	4198542.19	6152.31116	0.09886	2.783E-03	1.640E-05	2.799E-03	1.486E-03	1.640E-05	1.502E-03
581397.91	4199246.81	6150.7135	0.08519	2.782E-03	1.413E-05	2.796E-03	1.486E-03	1.413E-05	1.500E-03
582351.82	4199730	6141.21409	0.09012	2.778E-03	1.495E-05	2.793E-03	1.483E-03	1.495E-05	1.498E-03
581761.13	4199658.83	6131.40456	0.08335	2.773E-03	1.382E-05	2.787E-03	1.481E-03	1.382E-05	1.495E-03
582168.88	4199737.97	6128.73858	0.08767	2.772E-03	1.454E-05	2.787E-03	1.480E-03	1.454E-05	1.495E-03
581438.05	4198619.12	6113.2637	0.09432	2.765E-03	1.564E-05	2.781E-03	1.477E-03	1.564E-05	1.492E-03
581935.78	4199706.54	6110.77817	0.08593	2.764E-03	1.425E-05	2.778E-03	1.476E-03	1.425E-05	1.490E-03
581518.87	4198507.6	6106.06696	0.10362	2.762E-03	1.719E-05	2.779E-03	1.475E-03	1.719E-05	1.492E-03
581563.8	4198467.84	6076.85013	0.10859	2.749E-03	1.801E-05	2.767E-03	1.468E-03	1.801E-05	1.486E-03
581413.48	4199334.62	6066.11094	0.08186	2.744E-03	1.358E-05	2.757E-03	1.465E-03	1.358E-05	1.479E-03
581381.75	4198783.14	6049.74038	0.09231	2.736E-03	1.531E-05	2.752E-03	1.461E-03	1.531E-05	1.477E-03
581362.28	4198974.16	6040.18942	0.08872	2.732E-03	1.471E-05	2.747E-03	1.459E-03	1.471E-05	1.474E-03
582205.17	4199745.12	6028.98227	0.08688	2.727E-03	1.441E-05	2.742E-03	1.456E-03	1.441E-05	1.471E-03
581361.63	4198997.38	6017.99305	0.08801	2.722E-03	1.460E-05	2.737E-03	1.454E-03	1.460E-05	1.468E-03
581758.3	4198343.43	6010.97827	0.12694	2.719E-03	2.105E-05	2.740E-03	1.452E-03	2.105E-05	1.473E-03
581623.43	4199611.48	6010.56208	0.07937	2.719E-03	1.316E-05	2.732E-03	1.452E-03	1.316E-05	1.465E-03
581554.96	4199568.01	5986.14219	0.07829	2.708E-03	1.298E-05	2.721E-03	1.446E-03	1.298E-05	1.459E-03
582146.33	4199745.94	5976.05493	0.0858	2.703E-03	1.423E-05	2.717E-03	1.444E-03	1.423E-05	1.458E-03
581368.63	4199109.46	5968.60659	0.08582	2.700E-03	1.423E-05	2.714E-03	1.442E-03	1.423E-05	1.456E-03
582458.49	4199725.69	5965.14626	0.08958	2.698E-03	1.486E-05	2.713E-03	1.441E-03	1.486E-05	1.456E-03
581396.4	4198703.3	5955.31083	0.09254	2.694E-03	1.535E-05	2.709E-03	1.438E-03	1.535E-05	1.454E-03
582292.38	4199747.9	5949.21417	0.08695	2.691E-03	1.442E-05	2.705E-03	1.437E-03	1.442E-05	1.451E-03
581383.82	4199223.38	5939.25868	0.08356	2.687E-03	1.386E-05	2.700E-03	1.435E-03	1.386E-05	1.448E-03
581656.1	4199632.67	5932.65986	0.07922	2.684E-03	1.314E-05	2.697E-03	1.433E-03	1.314E-05	1.446E-03
582400.46	4199737.43	5929.95592	0.08832	2.682E-03	1.465E-05	2.697E-03	1.432E-03	1.465E-05	1.447E-03
581898	4199708.58	5924.55151	0.08361	2.680E-03	1.387E-05	2.694E-03	1.431E-03	1.387E-05	1.445E-03
581717.42	4198363.05	5922.70753	0.1246	2.679E-03	2.066E-05	2.700E-03	1.431E-03	2.066E-05	1.451E-03
581473.47	4199485.48	5923.79129	0.07803	2.680E-03	1.294E-05	2.692E-03	1.431E-03	1.294E-05	1.444E-03
581661.09	4198395.76	5918.07945	0.12147	2.677E-03	2.015E-05	2.697E-03	1.430E-03	2.015E-05	1.450E-03
581398.77	4199308.68	5906.83367	0.08095	2.672E-03	1.343E-05	2.685E-03	1.427E-03	1.343E-05	1.440E-03
582320.41	4199748.91	5900.91538	0.08676	2.669E-03	1.439E-05	2.684E-03	1.425E-03	1.439E-05	1.440E-03
581418.58	4199379.55	5894.69896	0.07928	2.666E-03	1.315E-05	2.680E-03	1.424E-03	1.315E-05	1.437E-03
582107.34	4199747.89	5889.68172	0.08462	2.664E-03	1.403E-05	2.678E-03	1.423E-03	1.403E-05	1.437E-03
581441.05	4199435.45	5873.69915	0.07836	2.657E-03	1.300E-05	2.670E-03	1.419E-03	1.300E-05	1.432E-03
581696.4	4198371.22	5856.67425	0.12255	2.649E-03	2.032E-05	2.669E-03	1.415E-03	2.032E-05	1.435E-03
582065.73	4199745.85	5841.12791	0.0839	2.642E-03	1.391E-05	2.656E-03	1.411E-03	1.391E-05	1.425E-03
581595.47	4198430.02	5839.25281	0.10888	2.641E-03	1.806E-05	2.659E-03	1.410E-03	1.806E-05	1.429E-03
581466.18	4198543.16	5827.97781	0.09026	2.636E-03	1.497E-05	2.651E-03	1.408E-03	1.497E-05	1.423E-03
581397.53	4198676.54	5821.79344	0.08836	2.633E-03	1.465E-05	2.648E-03	1.406E-03	1.465E-05	1.421E-03
582359.93	4199750.94	5810.44044	0.08624	2.628E-03	1.430E-05	2.643E-03	1.404E-03	1.430E-05	1.418E-03
581538.58	4198466.55	5790.20599	0.10024	2.619E-03	1.662E-05	2.636E-03	1.399E-03	1.662E-05	1.415E-03
581356.05	4199087.98	5770.0168	0.08376	2.610E-03	1.389E-05	2.624E-03	1.394E-03	1.389E-05	1.408E-03
582022.07	4199743.81	5765.65188	0.08289	2.608E-03	1.375E-05	2.622E-03	1.393E-03	1.375E-05	1.406E-03
581492.36	4198505.34	5751.40591	0.09169	2.602E-03	1.521E-05	2.617E-03	1.389E-03	1.521E-05	1.404E-03
581435.47	4198581.62	5751.36724	0.08716	2.602E-03	1.446E-05	2.616E-03	1.389E-03	1.446E-05	1.404E-03
581634.41	4199634.97	5750.51031	0.07706	2.601E-03	1.278E-05	2.614E-03	1.389E-03	1.278E-05	1.402E-03
581972.03	4199735.9	5747.31466	0.08242	2.600E-03	1.367E-05	2.613E-03	1.388E-03	1.367E-05	1.402E-03
582399.78	4199751.28	5733.68993	0.08588	2.594E-03	1.424E-05	2.608E-03	1.385E-03	1.424E-05	1.399E-03
581368.41	4199201.03	5703.81811	0.08142	2.580E-03	1.350E-05	2.594E-03	1.378E-03	1.350E-05	1.391E-03
581850.77	4199710.37	5700.86335	0.08068	2.579E-03	1.338E-05	2.592E-03	1.377E-03	1.338E-05	1.390E-03
582449.15	4199746.75	5689.89281	0.08602	2.574E-03	1.427E-05	2.588E-03	1.374E-03	1.427E-05	1.389E-03
581824.22	4199706.54	5650.66915	0.07975	2.556E-03	1.323E-05	2.569E-03	1.365E-03	1.323E-05	1.378E-03
581380.8	4199288.93	5646.03027	0.07873	2.554E-03	1.306E-05	2.567E-03	1.364E-03	1.306E-05	1.377E-03
581707.41	4199672.23	5638.36819	0.07742	2.550E-03	1.284E-05	2.563E-03	1.362E-03	1.284E-05	1.375E-03
581694.3	4198357.21	5632.36976	0.1183	2.548E-03	1.962E-05	2.567E-03	1.360E-03	1.962E-05	1.380E-03
581374.91	4198711.97	5621.64418	0.0874	2.543E-03	1.450E-05	2.557E-03	1.358E-03	1.450E-05	1.372E-03

581471.68	4199516.63	5596.73523	0.07446	2.532E-03	1.235E-05	2.544E-03	1.352E-03	1.235E-05	1.364E-03
581363.6	4198750.04	5588.86076	0.08645	2.528E-03	1.434E-05	2.542E-03	1.350E-03	1.434E-05	1.364E-03
581515.63	4198468.16	5572.22748	0.09272	2.520E-03	1.538E-05	2.536E-03	1.346E-03	1.538E-05	1.361E-03
581343.89	4199076.92	5569.18513	0.08122	2.519E-03	1.347E-05	2.533E-03	1.345E-03	1.347E-05	1.359E-03
581805.33	4199706.79	5569.1046	0.0786	2.519E-03	1.304E-05	2.532E-03	1.345E-03	1.304E-05	1.358E-03
581389.99	4198653.17	5558.50363	0.0847	2.514E-03	1.405E-05	2.528E-03	1.343E-03	1.405E-05	1.357E-03
581385.4	4199334.62	5542.16815	0.07667	2.507E-03	1.272E-05	2.520E-03	1.339E-03	1.272E-05	1.351E-03
582451.73	4199758.07	5533.27391	0.08408	2.503E-03	1.394E-05	2.517E-03	1.337E-03	1.394E-05	1.351E-03
581684.95	4199672.49	5520.02129	0.07579	2.497E-03	1.257E-05	2.509E-03	1.333E-03	1.257E-05	1.346E-03
581653.98	4198371.51	5505.49077	0.11224	2.490E-03	1.861E-05	2.509E-03	1.330E-03	1.861E-05	1.348E-03
581569.76	4199617.53	5496.88248	0.07358	2.486E-03	1.220E-05	2.499E-03	1.328E-03	1.220E-05	1.340E-03
581335.65	4199040.46	5489.01447	0.08039	2.483E-03	1.333E-05	2.496E-03	1.326E-03	1.333E-05	1.339E-03
581416.54	4199436.47	5484.23723	0.0745	2.481E-03	1.236E-05	2.493E-03	1.325E-03	1.236E-05	1.337E-03
581439.35	4198543.16	5470.10988	0.0828	2.474E-03	1.373E-05	2.488E-03	1.321E-03	1.373E-05	1.335E-03
581465.53	4198508.25	5463.55148	0.08494	2.471E-03	1.409E-05	2.485E-03	1.320E-03	1.409E-05	1.334E-03
581900.04	4199738.45	5462.92689	0.07879	2.471E-03	1.307E-05	2.484E-03	1.320E-03	1.307E-05	1.333E-03
581393.76	4198626.03	5453.14118	0.08399	2.467E-03	1.393E-05	2.481E-03	1.317E-03	1.393E-05	1.331E-03
581351.27	4199185.62	5432.4	0.07832	2.457E-03	1.299E-05	2.470E-03	1.312E-03	1.299E-05	1.325E-03
581392.04	4199381.85	5427.73566	0.07467	2.455E-03	1.238E-05	2.468E-03	1.311E-03	1.238E-05	1.323E-03
581771.63	4199707.05	5426.81113	0.07655	2.455E-03	1.270E-05	2.467E-03	1.311E-03	1.270E-05	1.324E-03
582102.74	4199778.27	5421.94256	0.07939	2.453E-03	1.317E-05	2.466E-03	1.310E-03	1.317E-05	1.323E-03
582415.73	4199773.1	5415.03434	0.0821	2.449E-03	1.362E-05	2.463E-03	1.308E-03	1.362E-05	1.322E-03
581973.82	4199758.36	5409.23449	0.07878	2.447E-03	1.307E-05	2.460E-03	1.307E-03	1.307E-05	1.320E-03
581595.8	4198398.02	5400.83147	0.10269	2.443E-03	1.703E-05	2.460E-03	1.305E-03	1.703E-05	1.322E-03
581397.9	4198606.43	5388.30045	0.0837	2.437E-03	1.388E-05	2.451E-03	1.302E-03	1.388E-05	1.315E-03
581585.08	4199636.67	5378.07179	0.07261	2.433E-03	1.204E-05	2.445E-03	1.299E-03	1.204E-05	1.311E-03
582019.01	4199769.08	5376.47283	0.07862	2.432E-03	1.304E-05	2.445E-03	1.299E-03	1.304E-05	1.312E-03
581327.62	4199020.28	5376.04546	0.07934	2.432E-03	1.316E-05	2.445E-03	1.299E-03	1.316E-05	1.312E-03
581689.4	4198341.1	5371.42358	0.11207	2.430E-03	1.859E-05	2.448E-03	1.297E-03	1.859E-05	1.316E-03
582068.53	4199777.76	5365.98249	0.07866	2.427E-03	1.305E-05	2.440E-03	1.296E-03	1.305E-05	1.309E-03
581325.67	4198998.15	5363.55898	0.0794	2.426E-03	1.317E-05	2.439E-03	1.296E-03	1.317E-05	1.309E-03
581471.42	4199542.41	5353.87811	0.07179	2.422E-03	1.191E-05	2.434E-03	1.293E-03	1.191E-05	1.305E-03
581648.96	4199671.21	5344.70119	0.07335	2.418E-03	1.216E-05	2.430E-03	1.291E-03	1.216E-05	1.303E-03
582493.87	4199765.59	5344.25256	0.08215	2.417E-03	1.362E-05	2.431E-03	1.291E-03	1.362E-05	1.305E-03
582222.94	4199792.99	5332.89467	0.07895	2.412E-03	1.309E-05	2.425E-03	1.288E-03	1.309E-05	1.301E-03
581341.94	4199165.45	5324.93397	0.07713	2.409E-03	1.279E-05	2.421E-03	1.286E-03	1.279E-05	1.299E-03
581490.74	4198468.16	5319.05894	0.08613	2.406E-03	1.428E-05	2.420E-03	1.285E-03	1.428E-05	1.299E-03
582188.01	4199793.32	5312.86671	0.0785	2.403E-03	1.302E-05	2.416E-03	1.283E-03	1.302E-05	1.296E-03
582169.57	4199792.67	5307.34732	0.07834	2.401E-03	1.299E-05	2.414E-03	1.282E-03	1.299E-05	1.295E-03
582203.53	4199794.93	5300.24185	0.07844	2.397E-03	1.301E-05	2.410E-03	1.280E-03	1.301E-05	1.293E-03
581343.63	4198756.45	5284.48699	0.08208	2.390E-03	1.361E-05	2.404E-03	1.276E-03	1.361E-05	1.290E-03
582519.89	4199765.78	5283.99184	0.08161	2.390E-03	1.353E-05	2.404E-03	1.276E-03	1.353E-05	1.290E-03
582326.38	4199793.99	5279.34975	0.07927	2.388E-03	1.315E-05	2.401E-03	1.275E-03	1.315E-05	1.288E-03
582343.42	4199794.27	5257.71365	0.0792	2.378E-03	1.314E-05	2.391E-03	1.270E-03	1.314E-05	1.283E-03
582360.47	4199793.72	5243.97685	0.07923	2.372E-03	1.314E-05	2.385E-03	1.267E-03	1.314E-05	1.280E-03
581855.88	4199742.79	5242.73798	0.07595	2.371E-03	1.260E-05	2.384E-03	1.266E-03	1.260E-05	1.279E-03
581424.94	4199488.49	5236.18858	0.07123	2.368E-03	1.181E-05	2.380E-03	1.265E-03	1.181E-05	1.277E-03
582491.29	4199775.12	5234.37447	0.08071	2.368E-03	1.339E-05	2.381E-03	1.264E-03	1.339E-05	1.278E-03
582376.96	4199793.72	5222.33351	0.07916	2.362E-03	1.313E-05	2.375E-03	1.261E-03	1.313E-05	1.275E-03
582416.55	4199789.32	5214.27349	0.07956	2.359E-03	1.319E-05	2.372E-03	1.260E-03	1.319E-05	1.273E-03
581348.9	4198711.59	5205.18869	0.08136	2.354E-03	1.349E-05	2.368E-03	1.257E-03	1.349E-05	1.271E-03
581348.23	4199249.63	5200.36166	0.07352	2.352E-03	1.219E-05	2.364E-03	1.256E-03	1.219E-05	1.268E-03
581900.3	4199757.08	5198.89228	0.07596	2.352E-03	1.260E-05	2.364E-03	1.256E-03	1.260E-05	1.268E-03
581594.78	4199657.1	5198.36744	0.07096	2.351E-03	1.177E-05	2.363E-03	1.256E-03	1.177E-05	1.267E-03
581440.96	4198506.63	5167.21836	0.07989	2.337E-03	1.325E-05	2.351E-03	1.248E-03	1.325E-05	1.261E-03
582471.42	4199784.85	5161.44082	0.07955	2.335E-03	1.319E-05	2.348E-03	1.247E-03	1.319E-05	1.260E-03
581328.49	4199140.93	5161.42003	0.07548	2.335E-03	1.252E-05	2.347E-03	1.247E-03	1.252E-05	1.259E-03
581311.78	4198972.76	5155.01087	0.07672	2.332E-03	1.272E-05	2.344E-03	1.245E-03	1.272E-05	1.258E-03
581630.39	4198356.97	5135.59136	0.09931	2.323E-03	1.647E-05	2.339E-03	1.240E-03	1.647E-05	1.257E-03
582516.72	4199779.69	5126.4908	0.07955	2.319E-03	1.319E-05	2.332E-03	1.238E-03	1.319E-05	1.251E-03
582102.74	4199800.23	5122.6434	0.07598	2.317E-03	1.260E-05	2.330E-03	1.237E-03	1.260E-05	1.250E-03
581350.43	4199289.44	5117.56375	0.07168	2.315E-03	1.189E-05	2.327E-03	1.236E-03	1.189E-05	1.248E-03
582445.8	4199793.2	5115.13182	0.07865	2.314E-03	1.304E-05	2.327E-03	1.236E-03	1.304E-05	1.249E-03
581351.17	4198679.18	5104.36384	0.07823	2.309E-03	1.297E-05	2.322E-03	1.233E-03	1.297E-05	1.246E-03
581973.57	4199780.57	5098.11821	0.07535	2.306E-03	1.250E-05	2.319E-03	1.231E-03	1.250E-05	1.244E-03
581712.44	4199713.76	5092.51054	0.07203	2.304E-03	1.195E-05	2.315E-03	1.230E-03	1.195E-05	1.242E-03
581465.53	4198470.43	5091.3215	0.08103	2.303E-03	1.344E-05	2.316E-03	1.230E-03	1.344E-05	1.243E-03
582393.46	4199804.44	5071.87222	0.07745	2.294E-03	1.284E-05	2.307E-03	1.225E-03	1.284E-05	1.238E-03
581469.64	4199572.02	5067.59937	0.06868	2.292E-03	1.139E-05	2.304E-03	1.224E-03	1.139E-05	1.235E-03
581354.18	4198659.2	5056.22188	0.07734	2.287E-03	1.283E-05	2.300E-03	1.221E-03	1.283E-05	1.234E-03
581378.68	4198595.5	5055.87213	0.07558	2.287E-03	1.253E-05	2.299E-03	1.221E-03	1.253E-05	1.234E-03
582467.65	4199794.79	5055.10951	0.07813	2.287E-03	1.296E-05	2.300E-03	1.221E-03	1.296E-05	1.234E-03
581362.47	4198634.32	5051.71514	0.07675	2.285E-03	1.273E-05	2.298E-03	1.220E-03	1.273E-05	1.233E-03
581357.06	4199341	5051.41254	0.07149	2.285E-03	1.186E-05	2.297E-03	1.220E-03	1.186E-05	1.232E-03
582068.02	4199801.5	5044.97608	0.07502	2.282E-03	1.244E-05	2.294E-03	1.219E-03	1.244E-05	1.231E-03
581368.04	4199386.44	5038.02015	0.07048	2.279E-03	1.169E-05	2.291E-03	1.217E-03	1.169E-05	1.229E-03
581384.38	4199436.47	5025.15946	0.06978	2.273E-03	1.157E-05	2.285E-03	1.214E-03	1.157E-05	1.225E-03
581596.77	4198366.66	5019.03013	0.09713	2.270E-03	1.611E-05	2.286E-03	1.212E-03	1.611E-05	1.228E-03
581685.97	4199710.73	5019.65	0.07079	2.271E-03	1.174E-05	2.282E-03	1.212E-03	1.174E-05	1.224E-03
582020.79	4199796.4	5010.6519	0.07453	2.266E-03	1.236E-05	2.279E-03	1.210E-03	1.236E-05	1.223E-03
581332.35	4199227.68	5003.51849	0.07212	2.263E-03	1.196E-05	2.275E-03	1.209E-03	1.196E-05	1.221E-03
581387.35	4198568.74	5001.89834	0.07447	2.263E-03	1.235E-05	2.275E-03	1.208E-03	1.235E-05	1.221E-03
581301.8	4198991.21	4998.47621	0.07431	2.261E-03	1.232E-05	2.273E-03	1.207E-03	1.232E-05	1.220E-03
581648.49	4198334.99	4994.36914	0.0983	2.259E-03	1.630E-05	2.275E-03	1.206E-03	1.630E-05	1.223E-03
582223.91	4199819.84	4993.48552	0.07491	2.259E-03	1.242E-05	2.271E-03	1.206E-03	1.242E-05	1.219E-03
581315.04	4199124.87	4986.71853	0.07351	2.256E-03	1.219E-05	2.268E-03	1.205E-03	1.219E-05	1.217E-03
582509.56	4199794.19	4978.12622	0.07755	2.252E-03	1.286E-05	2.265E-03	1.202E-03	1.286E-05	1.215E-03
582286.79	4199821.76	4970.18537	0.07506	2.248E-03	1.245E-05	2.261E-03	1.201E-03	1.245E-05	1.213E-03
581859.71	4199765	4961.12499	0.07296	2.244E-03	1.210E-05	2.256E-03	1.198E-03	1.210E-05	1.210E-03
582303.83	4199822.04	4959.46068	0.07507	2.243E-03	1.245E-05	2.256E-03	1.198E-03	1.245E-05	1.210E-03
582417.38	4199811.59	4956.81601	0.07625	2.242E-03	1.265E-05	2.255E-03	1.197E-03	1.265E-05	1.210E-03
582320.88	4199821.49	4955.20987	0.07517	2.241E-03	1.247E-05	2.254E-03	1.197E-03	1.247E-05	1.209E-03
581421.55	4199522.05	4953.3224	0.06795	2.241E-03	1.127E-05	2.252E-03	1.196E-03	1.127E-05	1.208E-03
582270.84	4199823.96	4948.60241	0.07467	2.238E-03	1.238E-05	2.251E-03	1.195E-03	1.238E-05	1.208E-03
581361.72	4198611.71	4924.38942	0.07286	2.227E-03	1.208E-05	2.240E-03	1.189E-03	1.208E-05	1.202E-03
581600.65	4199684.41	4917.60384	0.06823	2.224E-03	1.132E-05	2.236E-03	1.188E-03	1.132E-05	1.199E-03
581494.95	4198425.5	4911.63849	0.08129	2.222E-03	1.348E-05	2.235E-03	1.186E-03	1.348E-05	1.200E-03
581779.8	4199747.89	4908.93353	0.07131	2.220E-03	1.183E-05	2.232E-03	1.186E-03	1.183E-05	1.198E-03
582457.12	4199812.07	4885.03318	0.07578	2.210E-03	1.257E-05	2.222E-03	1.180E-03	1.257E-05	1.193E-03
581473.78	4199598.13	4877.35153	0.06662	2.206E-03	1.105E-05	2.217E-03	1.178E-03	1.105E-05	1.189E-03
582501.02	4199805.31	4874.94615	0.07611	2.205E-03	1.262E-05	2.218E-03	1.178E-03	1.262E-05	1.190E-03
581316.11	4198751.17	4866.37183	0.07586	2.201E-03	1.258E-05	2.214E-03	1.175E-03	1.258E-05	1.188E-03
581901.57	4199783.63	4857.74219	0.07222	2.197E-03	1.198E-05	2.209E-03	1.173E-03	1.198E-05	1.185E-03
582479.97	4199811.08	4853.93781	0.07562	2.196E-03	1.254E-05	2.208E-03	1.172E-03	1.254E-05	1.185E-03
581399.2	4198525.31	4850.2226	0.0737	2.194E-03	1.222E-05	2.206E-03	1.172E-03	1.222E-05	1.184E-03
582105.81	4199822.69	4846.49419	0.07279	2.192E-03	1.207E-05	2.204E-03	1.171E-03	1.207E-05	1.183E-03
581488.08	4199615.49	4846.29604	0.0663	2.192E-03	1.100E-05	2.203E-03	1.171E-03	1.100E-05	1.182E-03
581302.02	4199102.09	4845.13916	0.07161	2.192E-03	1.188E-05	2.203E-03	1.170E-03	1.188E-05	1.182E-03
581441.61	4198468.49	4842.64816	0.07658	2.190E-03	1.270E-05	2.203E-03	1.170E-03	1.270E-05	1.182E-03
581291.17	4199002.06	4838.29966	0.07211	2.189E-03	1.196E-05	2.200E-03	1.169E-03	1.196E-05	1.181E-03
581425.69	4199546.18	4827.46122	0.06638	2.184E-03	1.101E-05	2.195E-03	1.166E-03	1.101E-05	1.177E-03
581661.24	4199718.1	4825.04659	0.06835	2.183E-03	1.134E-05	2.194E-03	1.165E-03	1.134E-05	1.177E-03
581348.64	4199370.36	4822.69696	0.06853	2.181E-03	1.137E-05	2.193E-03	1.165E-03	1.137E-05	1.176E-03
581388.74	4199482.83	4822.44197	0.06711	2.181E-03	1.113E-05	2.192E-03	1.165E-03	1.113E-05	1.176E-03
581315.44	4199205.88	4801.68746	0.07042	2.172E-03	1.168E-05	2.184E-03	1.160E-03	1.168E-05	1.172E-03
581977.14	4199805.08	4797.54565	0.07198	2.170E-03	1.194E-05	2.182E-03	1.159E-03	1.194E-05	1.171E-03
581564.44	4198366.34	4796.58548	0.08881	2.170E-03	1.473E-05	2.184E-03	1.159E-03	1.473E-05	1.173E-03
581365.49	4199433.41	4789.85914	0.06738	2.167E-03	1.117E-05	2.178E-03	1.157E-03	1.117E-05	1.168E-03
581294.42	4199077.13	4786.71704	0.07084	2.165E-03	1.175E-05	2.177E-03	1.156E-03	1.175E-05	1.168E-03
582174.1	4199835.36	4779.78043	0.07214	2.162E-03	1.196E-05	2.174E-03	1.155E-03	1.196E-05	1.167E-03
581594.18	4198347.27	4778.55933	0.08836	2.161E-03	1.465E-05	2.176E-03	1.154E-03	1.465E-05	1.169E-03

581728.5	4199744.79	4770.24734	0.06899	2.158E-03	1.144E-05	2.169E-03	1.152E-03	1.144E-05	1.164E-03
581329.24	4199296.08	4763.12866	0.06578	2.155E-03	1.091E-05	2.165E-03	1.151E-03	1.091E-05	1.161E-03
582351.94	4199838.53	4743.66072	0.07279	2.146E-03	1.207E-05	2.158E-03	1.146E-03	1.207E-05	1.158E-03
582368.99	4199838.81	4724.61444	0.07271	2.137E-03	1.206E-05	2.149E-03	1.141E-03	1.206E-05	1.153E-03
582021.56	4199820.14	4721.3607	0.07121	2.136E-03	1.181E-05	2.147E-03	1.140E-03	1.181E-05	1.152E-03
582273.59	4199844.85	4713.89837	0.07178	2.132E-03	1.190E-05	2.144E-03	1.139E-03	1.190E-05	1.151E-03
582223.91	4199844.09	4713.78079	0.07152	2.132E-03	1.186E-05	2.144E-03	1.139E-03	1.186E-05	1.150E-03
582337.1	4199842.66	4711.89935	0.07225	2.131E-03	1.198E-05	2.143E-03	1.138E-03	1.198E-05	1.150E-03
582386.03	4199838.26	4711.77236	0.07273	2.131E-03	1.206E-05	2.143E-03	1.138E-03	1.206E-05	1.150E-03
581358.33	4198578.92	4711.5846	0.06995	2.131E-03	1.160E-05	2.143E-03	1.138E-03	1.160E-05	1.150E-03
581307.82	4198730.82	4696.57262	0.07363	2.124E-03	1.221E-05	2.137E-03	1.134E-03	1.221E-05	1.147E-03
581778.83	4199765.39	4696.70459	0.06903	2.124E-03	1.145E-05	2.136E-03	1.134E-03	1.145E-05	1.146E-03
581468.76	4198424.2	4687.50483	0.07681	2.120E-03	1.274E-05	2.133E-03	1.132E-03	1.274E-05	1.145E-03
581312.05	4198705.8	4673.76762	0.07261	2.114E-03	1.204E-05	2.126E-03	1.129E-03	1.204E-05	1.141E-03
581427.2	4199570.31	4670.1796	0.06453	2.112E-03	1.070E-05	2.123E-03	1.128E-03	1.070E-05	1.139E-03
582403.08	4199840.46	4668.71785	0.07234	2.112E-03	1.200E-05	2.124E-03	1.128E-03	1.200E-05	1.140E-03
581855.62	4199788.74	4660.69547	0.06961	2.108E-03	1.154E-05	2.120E-03	1.126E-03	1.154E-05	1.137E-03
582068.79	4199834.69	4645.74943	0.07039	2.101E-03	1.167E-05	2.113E-03	1.122E-03	1.167E-05	1.134E-03
581279.67	4199049.79	4631.50654	0.06884	2.095E-03	1.142E-05	2.106E-03	1.119E-03	1.142E-05	1.130E-03
581633.9	4199725.91	4625.1945	0.0658	2.092E-03	1.091E-05	2.103E-03	1.117E-03	1.091E-05	1.128E-03
581939.61	4199813.25	4606.81138	0.06964	2.084E-03	1.155E-05	2.095E-03	1.113E-03	1.155E-05	1.124E-03
581568	4198344.36	4586.53901	0.08315	2.075E-03	1.379E-05	2.088E-03	1.108E-03	1.379E-05	1.122E-03
581444.52	4198434.55	4581.66656	0.07173	2.072E-03	1.190E-05	2.084E-03	1.107E-03	1.190E-05	1.119E-03
581310.96	4198681.84	4579.20199	0.07037	2.071E-03	1.167E-05	2.083E-03	1.106E-03	1.167E-05	1.118E-03
581307.01	4199250.5	4564.29278	0.06401	2.065E-03	1.062E-05	2.075E-03	1.103E-03	1.062E-05	1.113E-03
581283.37	4198799.47	4557.0931	0.07079	2.061E-03	1.174E-05	2.073E-03	1.101E-03	1.174E-05	1.113E-03
582172.16	4199855.41	4555.67603	0.06943	2.061E-03	1.151E-05	2.072E-03	1.100E-03	1.151E-05	1.112E-03
581334.2	4198602.29	4544.72039	0.06718	2.056E-03	1.114E-05	2.067E-03	1.098E-03	1.114E-05	1.109E-03
582224.88	4199859.94	4543.90519	0.06944	2.055E-03	1.152E-05	2.067E-03	1.098E-03	1.152E-05	1.109E-03
581353.8	4198556.68	4543.72884	0.06801	2.055E-03	1.128E-05	2.067E-03	1.098E-03	1.128E-05	1.109E-03
581270.77	4199028.96	4540.90128	0.06799	2.054E-03	1.128E-05	2.065E-03	1.097E-03	1.128E-05	1.108E-03
581373.25	4198518.58	4531.70028	0.06677	2.050E-03	1.107E-05	2.061E-03	1.095E-03	1.107E-05	1.106E-03
581900.55	4199811.21	4531.49161	0.06854	2.050E-03	1.137E-05	2.061E-03	1.095E-03	1.137E-05	1.106E-03
582101.72	4199850.01	4529.23832	0.06903	2.049E-03	1.145E-05	2.060E-03	1.094E-03	1.145E-05	1.105E-03
581430.97	4199595.57	4522.90205	0.06283	2.046E-03	1.042E-05	2.056E-03	1.093E-03	1.042E-05	1.103E-03
581488.78	4199654.73	4515.34195	0.06276	2.042E-03	1.041E-05	2.053E-03	1.091E-03	1.041E-05	1.101E-03
582201.59	4199861.56	4513.92819	0.06899	2.042E-03	1.144E-05	2.053E-03	1.090E-03	1.144E-05	1.102E-03
581731.75	4199768.66	4513.83837	0.06631	2.042E-03	1.100E-05	2.053E-03	1.090E-03	1.100E-05	1.101E-03
581608.08	4199725.91	4513.8336	0.06421	2.042E-03	1.065E-05	2.052E-03	1.090E-03	1.065E-05	1.101E-03
582033.81	4199841.33	4507.15974	0.06873	2.039E-03	1.140E-05	2.050E-03	1.089E-03	1.140E-05	1.100E-03
582290.08	4199864.65	4505.79904	0.06927	2.038E-03	1.149E-05	2.050E-03	1.088E-03	1.149E-05	1.100E-03
581264.48	4198977.1	4500.07236	0.06779	2.036E-03	1.124E-05	2.047E-03	1.087E-03	1.124E-05	1.098E-03
581310.23	4198661.51	4499.98682	0.06844	2.035E-03	1.135E-05	2.047E-03	1.087E-03	1.135E-05	1.098E-03
582307.13	4199864.92	4499.41171	0.0693	2.035E-03	1.149E-05	2.047E-03	1.087E-03	1.149E-05	1.098E-03
582324.18	4199864.37	4498.43115	0.06941	2.035E-03	1.151E-05	2.046E-03	1.087E-03	1.151E-05	1.098E-03
581265.56	4199005.75	4496.96261	0.0676	2.034E-03	1.121E-05	2.045E-03	1.086E-03	1.121E-05	1.097E-03
581285.97	4199162.15	4495.78457	0.06684	2.034E-03	1.109E-05	2.045E-03	1.086E-03	1.109E-05	1.097E-03
581549.34	4199700.24	4482.88559	0.063	2.028E-03	1.045E-05	2.038E-03	1.083E-03	1.045E-05	1.093E-03
581394.39	4198479.17	4482.60756	0.06692	2.028E-03	1.110E-05	2.039E-03	1.083E-03	1.110E-05	1.094E-03
581497.21	4198378.95	4479.62095	0.07362	2.026E-03	1.221E-05	2.038E-03	1.082E-03	1.221E-05	1.094E-03
582273.59	4199868.22	4470.923	0.06874	2.022E-03	1.140E-05	2.034E-03	1.080E-03	1.140E-05	1.091E-03
581285.18	4198750.46	4467.43207	0.06954	2.021E-03	1.153E-05	2.032E-03	1.079E-03	1.153E-05	1.091E-03
581501.86	4199671.39	4461.34275	0.06228	2.018E-03	1.033E-05	2.028E-03	1.078E-03	1.033E-05	1.088E-03
581444.2	4198419.68	4456.8504	0.07019	2.016E-03	1.164E-05	2.028E-03	1.077E-03	1.164E-05	1.088E-03
581306.01	4199290.72	4456.20923	0.06254	2.016E-03	1.037E-05	2.026E-03	1.076E-03	1.037E-05	1.087E-03
581356.69	4199484.34	4447.47262	0.06311	2.012E-03	1.047E-05	2.022E-03	1.074E-03	1.047E-05	1.085E-03
581279.01	4199143.83	4446.40345	0.06623	2.011E-03	1.098E-05	2.022E-03	1.074E-03	1.098E-05	1.085E-03
581333.83	4198577.79	4431.04895	0.06595	2.004E-03	1.094E-05	2.015E-03	1.070E-03	1.094E-05	1.081E-03
582172.81	4199870.29	4401.20467	0.06755	1.991E-03	1.120E-05	2.002E-03	1.063E-03	1.120E-05	1.074E-03
581437	4199619.7	4401.46011	0.06143	1.991E-03	1.019E-05	2.001E-03	1.063E-03	1.019E-05	1.073E-03
582069.55	4199858.69	4386.87426	0.06732	1.984E-03	1.116E-05	1.995E-03	1.060E-03	1.116E-05	1.071E-03
581267.54	4198810.09	4385.85718	0.06828	1.984E-03	1.132E-05	1.995E-03	1.059E-03	1.132E-05	1.071E-03
581333.07	4199438	4376.62751	0.06281	1.980E-03	1.042E-05	1.990E-03	1.057E-03	1.042E-05	1.068E-03
581516.16	4199691.81	4375.06109	0.06149	1.979E-03	1.020E-05	1.989E-03	1.057E-03	1.020E-05	1.067E-03
581781.08	4199795.38	4374.66717	0.06553	1.979E-03	1.087E-05	1.990E-03	1.057E-03	1.087E-05	1.068E-03
581306.97	4198637.19	4374.23361	0.06478	1.979E-03	1.074E-05	1.989E-03	1.057E-03	1.074E-05	1.067E-03
581855.37	4199814.78	4372.84949	0.06636	1.978E-03	1.101E-05	1.989E-03	1.056E-03	1.101E-05	1.067E-03
581302.69	4199325.43	4332.99448	0.06088	1.960E-03	1.010E-05	1.970E-03	1.047E-03	1.010E-05	1.057E-03
582028.96	4199858.18	4320.43814	0.0665	1.954E-03	1.103E-05	1.965E-03	1.044E-03	1.103E-05	1.055E-03
581312.65	4199385.67	4307.77524	0.06279	1.949E-03	1.041E-05	1.959E-03	1.041E-03	1.041E-05	1.051E-03
581304.73	4199350.19	4306.91252	0.06246	1.948E-03	1.036E-05	1.959E-03	1.040E-03	1.036E-05	1.051E-03
581395.81	4198449.24	4292.45335	0.06501	1.942E-03	1.078E-05	1.952E-03	1.037E-03	1.078E-05	1.048E-03
582199.97	4199883.55	4291.70283	0.06625	1.941E-03	1.099E-05	1.952E-03	1.037E-03	1.099E-05	1.048E-03
581309.15	4198607.78	4290.46697	0.06359	1.941E-03	1.055E-05	1.951E-03	1.036E-03	1.055E-05	1.047E-03
581279.45	4199214.05	4290.39945	0.06116	1.941E-03	1.014E-05	1.951E-03	1.036E-03	1.014E-05	1.046E-03
581368.44	4198485.26	4286.09708	0.0636	1.939E-03	1.055E-05	1.949E-03	1.035E-03	1.055E-05	1.046E-03
581307.54	4199372.4	4283.3684	0.06273	1.938E-03	1.040E-05	1.948E-03	1.035E-03	1.040E-05	1.045E-03
582103.51	4199874.01	4283.08396	0.06607	1.937E-03	1.096E-05	1.948E-03	1.035E-03	1.096E-05	1.046E-03
581440.77	4199641.19	4277.68219	0.06004	1.935E-03	9.957E-06	1.945E-03	1.033E-03	9.957E-06	1.043E-03
581261.95	4198784.59	4274.02918	0.06673	1.933E-03	1.107E-05	1.944E-03	1.032E-03	1.107E-05	1.043E-03
581347.94	4198516.98	4274.17881	0.06266	1.933E-03	1.039E-05	1.944E-03	1.032E-03	1.039E-05	1.043E-03
581279.01	4198703.99	4272.12094	0.0657	1.932E-03	1.090E-05	1.943E-03	1.032E-03	1.090E-05	1.043E-03
581981.73	4199853.84	4270.36103	0.06585	1.932E-03	1.092E-05	1.943E-03	1.032E-03	1.092E-05	1.042E-03
582223.58	4199887.75	4265.98997	0.06598	1.930E-03	1.094E-05	1.941E-03	1.030E-03	1.094E-05	1.041E-03
581497.21	4198353.41	4252.35546	0.07047	1.923E-03	1.169E-05	1.935E-03	1.027E-03	1.169E-05	1.039E-03
581667.31	4199775.82	4241.11977	0.06231	1.918E-03	1.033E-05	1.929E-03	1.024E-03	1.033E-05	1.035E-03
581350.66	4199516.77	4233.43858	0.06049	1.915E-03	1.003E-05	1.925E-03	1.023E-03	1.003E-05	1.033E-03
581252.6	4198819.98	4232.10699	0.06604	1.914E-03	1.095E-05	1.925E-03	1.022E-03	1.095E-05	1.033E-03
581525.09	4199715.04	4231.9426	0.06005	1.914E-03	9.959E-06	1.924E-03	1.022E-03	9.959E-06	1.032E-03
581961.57	4199853.58	4229.92711	0.06532	1.913E-03	1.083E-05	1.924E-03	1.022E-03	1.083E-05	1.033E-03
581279.89	4199251.59	4213.27269	0.06004	1.906E-03	9.957E-06	1.916E-03	1.018E-03	9.957E-06	1.028E-03
581261.95	4198755.18	4211.69682	0.06601	1.905E-03	1.095E-05	1.916E-03	1.017E-03	1.095E-05	1.028E-03
581733.7	4199798.82	4211.66551	0.06305	1.905E-03	1.046E-05	1.916E-03	1.017E-03	1.046E-05	1.028E-03
581787.29	4199814.22	4201.22425	0.06367	1.900E-03	1.056E-05	1.911E-03	1.015E-03	1.056E-05	1.025E-03
582011.86	4199868.9	4181.49384	0.06482	1.891E-03	1.075E-05	1.902E-03	1.010E-03	1.075E-05	1.021E-03
581442.58	4198386.06	4179.83305	0.06661	1.891E-03	1.105E-05	1.902E-03	1.010E-03	1.105E-05	1.021E-03
581250.02	4198799.98	4170.56026	0.06521	1.886E-03	1.081E-05	1.897E-03	1.007E-03	1.081E-05	1.018E-03
582069.55	4199880.9	4165.52145	0.06464	1.884E-03	1.072E-05	1.895E-03	1.006E-03	1.072E-05	1.017E-03
581930.42	4199853.33	4163.55788	0.06442	1.883E-03	1.068E-05	1.894E-03	1.006E-03	1.068E-05	1.016E-03
581312.65	4199433.41	4163.50252	0.0606	1.883E-03	1.005E-05	1.893E-03	1.006E-03	1.005E-05	1.016E-03
581240.57	4199054.05	4154.00126	0.06253	1.879E-03	1.037E-05	1.889E-03	1.003E-03	1.037E-05	1.014E-03
581451.71	4199669.85	4152.29916	0.05865	1.878E-03	9.727E-06	1.888E-03	1.003E-03	9.727E-06	1.013E-03
581694.22	4199796	4129.73526	0.06154	1.868E-03	1.021E-05	1.878E-03	9.975E-04	1.021E-05	1.008E-03
581352.17	4199542.78	4125.80635	0.05906	1.866E-03	9.795E-06	1.876E-03	9.966E-04	9.795E-06	1.006E-03
581497.21	4198338.22	4123.95375	0.06886	1.865E-03	1.142E-05	1.877E-03	9.961E-04	1.142E-05	1.008E-03
581234.89	4199033.36	4116.18212	0.06224	1.862E-03	1.032E-05	1.872E-03	9.943E-04	1.032E-05	1.005E-03
581844.64	4199839.54	4098.73331	0.06311	1.854E-03	1.047E-05	1.864E-03	9.900E-04	1.047E-05	1.001E-03
582219.05	4199906.51	4090.45501	0.06376	1.850E-03	1.057E-05	1.861E-03	9.880E-04	1.057E-05	9.986E-04
581900.3	4199855.12	4078.26206	0.06327	1.845E-03	1.049E-05	1.855E-03	9.851E-04	1.049E-05	9.956E-04
581228.69	4199009.24	4071.57137	0.06183	1.842E-03	1.025E-05	1.852E-03	9.835E-04	1.025E-05	9.937E-04
581251.74	4199170.85	4065.06134	0.06147	1.839E-03	1.019E-05	1.849E-03	9.819E-04	1.019E-05	9.921E-04
581279.01	4198633.19	4064.85462	0.06031	1.839E-03	1.000E-05	1.849E-03	9.819E-04	1.000E-05	9.919E-04
581365.65	4198450.13	4056.35849	0.06104	1.835E-03	1.012E-05	1.845E-03	9.798E-04	1.012E-05	9.899E-04
581242.71	4198775.87	4049.53089	0.06342	1.832E-03	1.052E-05	1.842E-03	9.782E-04	1.052E-05	9.887E-04
581257.1	4199207.97	4048.6002	0.05983	1.831E-03	9.923E-06	1.841E-03	9.779E-04	9.923E-06	9.879E-04
581554.96	4199754.1	4048.31326	0.05846	1.831E-03	9.695E-06	1.841E-03	9.779E-04	9.695E-06	9.876E-04
581323.27	4198516.98	4047.73021	0.05935	1.831E-03	9.843E-06	1.841E-03	9.777E-04	9.843E-06	9.876E-04
582154.7	4199905.54	4046.7951	0.06316	1.830E-03	1.047E-05	1.841E-03	9.775E-04	1.047E-05	9.880E-04
581649.52	4199791.44	4045.179	0.0599	1.830E-03	9.934E-06	1.840E-03	9.771E-04	9.934E-06	9.870E-04
581461.89	4199694.35	4044.34795	0.05749	1.829E-03	9.535E-06	1.839E-03	9.769E-04	9.535E-06	9.864E-04
582181.54	4199909.42	4037.32622	0.06305	1.826E-03	1.046E-05	1.837E-03	9.752E-04	1.046E-05	9.857E-04

581233.3	4198818.9	4025.60216	0.06298	1.821E-03	1.045E-05	1.831E-03	9.724E-04	1.045E-05	9.828E-04
581288.4	4199388.99	4023.71518	0.05962	1.820E-03	9.888E-06	1.830E-03	9.719E-04	9.888E-06	9.818E-04
582276.89	4199916.89	4022.11131	0.06303	1.819E-03	1.045E-05	1.830E-03	9.715E-04	1.045E-05	9.820E-04
581466.5	4198345.33	4010.8125	0.06532	1.814E-03	1.083E-05	1.825E-03	9.688E-04	1.083E-05	9.796E-04
581338.33	4198481.42	4006.10562	0.0594	1.812E-03	9.851E-06	1.822E-03	9.677E-04	9.851E-06	9.775E-04
581220.13	4198981.79	3999.37614	0.06092	1.809E-03	1.010E-05	1.819E-03	9.660E-04	1.010E-05	9.761E-04
581349.53	4199567.29	3986.37221	0.05733	1.803E-03	9.508E-06	1.813E-03	9.629E-04	9.508E-06	9.724E-04
582361.84	4199921.01	3976.09011	0.06283	1.799E-03	1.042E-05	1.809E-03	9.604E-04	1.042E-05	9.708E-04
581280.46	4198600.16	3975.17967	0.05817	1.798E-03	9.647E-06	1.808E-03	9.602E-04	9.647E-06	9.698E-04
581234.42	4199127.97	3963.64534	0.06008	1.793E-03	9.964E-06	1.803E-03	9.574E-04	9.964E-06	9.674E-04
581475.84	4199719.24	3948.0352	0.05652	1.786E-03	9.374E-06	1.795E-03	9.536E-04	9.374E-06	9.630E-04
582101.35	4199910.17	3943.16234	0.06189	1.784E-03	1.026E-05	1.794E-03	9.525E-04	1.026E-05	9.627E-04
581307.37	4199484.08	3942.88503	0.05761	1.783E-03	9.554E-06	1.793E-03	9.524E-04	9.554E-06	9.620E-04
581225.08	4199087.6	3938.86375	0.05969	1.782E-03	9.899E-06	1.792E-03	9.514E-04	9.899E-06	9.613E-04
581788.48	4199843.37	3931.73009	0.06061	1.778E-03	1.005E-05	1.788E-03	9.497E-04	1.005E-05	9.598E-04
581253.63	4199251.37	3915.89783	0.0566	1.771E-03	9.387E-06	1.781E-03	9.459E-04	9.387E-06	9.553E-04
582067.51	4199907.96	3915.31402	0.06157	1.771E-03	1.021E-05	1.781E-03	9.457E-04	1.021E-05	9.560E-04
581572.82	4199779.11	3912.33307	0.05725	1.770E-03	9.495E-06	1.779E-03	9.450E-04	9.495E-06	9.545E-04
581261.34	4199297.86	3904.70532	0.05402	1.766E-03	8.959E-06	1.775E-03	9.432E-04	8.959E-06	9.521E-04
582283.49	4199931.46	3902.12083	0.06149	1.765E-03	1.020E-05	1.775E-03	9.426E-04	1.020E-05	9.528E-04
581672.3	4199816.83	3887.39008	0.05852	1.758E-03	9.705E-06	1.768E-03	9.390E-04	9.705E-06	9.487E-04
582325.28	4199933.66	3885.52875	0.06143	1.758E-03	1.019E-05	1.768E-03	9.385E-04	1.019E-05	9.487E-04
581349.53	4199589.91	3878.34943	0.05598	1.754E-03	9.284E-06	1.764E-03	9.368E-04	9.284E-06	9.461E-04
581871.45	4199870.18	3877.74853	0.06071	1.754E-03	1.007E-05	1.764E-03	9.367E-04	1.007E-05	9.467E-04
582302.18	4199935.58	3871.12439	0.06115	1.751E-03	1.014E-05	1.761E-03	9.351E-04	1.014E-05	9.452E-04
581284.82	4199435.71	3868.66095	0.05729	1.750E-03	9.501E-06	1.759E-03	9.345E-04	9.501E-06	9.440E-04
581402.32	4199664.19	3866.68828	0.0554	1.749E-03	9.188E-06	1.758E-03	9.340E-04	9.188E-06	9.432E-04
581262.62	4199327.98	3863.2795	0.05349	1.747E-03	8.871E-06	1.756E-03	9.332E-04	8.871E-06	9.420E-04
581341.27	4198448.8	3862.2373	0.05781	1.747E-03	9.588E-06	1.757E-03	9.329E-04	9.588E-06	9.425E-04
582383.56	4199934.76	3857.48888	0.06137	1.745E-03	1.018E-05	1.755E-03	9.318E-04	1.018E-05	9.420E-04
581256.5	4198634.28	3851.2867	0.05649	1.742E-03	9.369E-06	1.751E-03	9.303E-04	9.369E-06	9.396E-04
581222.01	4198775.15	3843.48185	0.0602	1.739E-03	9.984E-06	1.749E-03	9.284E-04	9.984E-06	9.384E-04
581213.4	4198824.21	3838.46561	0.06009	1.736E-03	9.966E-06	1.746E-03	9.272E-04	9.966E-06	9.371E-04
582217.44	4199935.94	3837.3052	0.06054	1.736E-03	1.004E-05	1.746E-03	9.269E-04	1.004E-05	9.369E-04
582200.62	4199934.65	3836.43398	0.06052	1.735E-03	1.004E-05	1.745E-03	9.267E-04	1.004E-05	9.367E-04
581382.46	4198393.17	3836.31272	0.05933	1.735E-03	9.840E-06	1.745E-03	9.267E-04	9.840E-06	9.365E-04
582134.97	4199928.18	3830.21418	0.06045	1.733E-03	1.003E-05	1.743E-03	9.252E-04	1.003E-05	9.352E-04
581202.46	4198932.52	3829.31452	0.0588	1.732E-03	9.752E-06	1.742E-03	9.250E-04	9.752E-06	9.347E-04
581740.21	4199842.43	3828.89083	0.05884	1.732E-03	9.758E-06	1.742E-03	9.249E-04	9.758E-06	9.346E-04
581229.18	4199171.26	3826.08048	0.05718	1.731E-03	9.483E-06	1.740E-03	9.242E-04	9.483E-06	9.337E-04
581237.36	4199216.22	3821.91352	0.05707	1.729E-03	9.465E-06	1.738E-03	9.232E-04	9.465E-06	9.326E-04
581306.63	4199519.17	3814.24413	0.05587	1.725E-03	9.266E-06	1.735E-03	9.213E-04	9.266E-06	9.306E-04
581296.36	4198514.09	3805.17456	0.05588	1.721E-03	9.268E-06	1.730E-03	9.191E-04	9.268E-06	9.284E-04
581265.17	4199378.02	3801.94832	0.05476	1.720E-03	9.082E-06	1.729E-03	9.184E-04	9.082E-06	9.274E-04
581487.03	4199748.9	3798.04292	0.05496	1.718E-03	9.115E-06	1.727E-03	9.174E-04	9.115E-06	9.265E-04
581221.65	4198748.64	3790.10908	0.05866	1.714E-03	9.729E-06	1.724E-03	9.155E-04	9.729E-06	9.252E-04
581232.18	4198699.27	3787.24815	0.0589	1.713E-03	9.768E-06	1.723E-03	9.148E-04	9.768E-06	9.246E-04
581258.28	4199348.92	3778.09882	0.05149	1.709E-03	8.539E-06	1.717E-03	9.126E-04	8.539E-06	9.211E-04
581362.49	4198405.15	3776.04022	0.05783	1.708E-03	9.591E-06	1.718E-03	9.121E-04	9.591E-06	9.217E-04
581437.73	4198333.69	3771.7087	0.06109	1.706E-03	1.013E-05	1.716E-03	9.111E-04	1.013E-05	9.212E-04
581288.14	4199482.42	3769.80141	0.05562	1.705E-03	9.224E-06	1.714E-03	9.106E-04	9.224E-06	9.198E-04
581588.14	4199804.13	3767.0348	0.05589	1.704E-03	9.269E-06	1.713E-03	9.099E-04	9.269E-06	9.192E-04
581397.35	4198363.76	3746.36343	0.05901	1.695E-03	9.787E-06	1.704E-03	9.049E-04	9.787E-06	9.147E-04
581254.69	4198601.25	3742.08131	0.05472	1.693E-03	9.075E-06	1.702E-03	9.039E-04	9.075E-06	9.130E-04
581305.79	4199542.41	3724.79418	0.05461	1.685E-03	9.057E-06	1.694E-03	8.997E-04	9.057E-06	9.088E-04
581345.38	4199616.68	3721.93433	0.05405	1.684E-03	8.964E-06	1.693E-03	8.990E-04	8.964E-06	9.080E-04
581220.2	4198718.87	3718.77932	0.05778	1.682E-03	9.583E-06	1.692E-03	8.983E-04	9.583E-06	9.079E-04
581679.24	4199840.69	3709.29441	0.05663	1.678E-03	9.392E-06	1.687E-03	8.960E-04	9.392E-06	9.054E-04
581788.74	4199870.94	3696.45198	0.05787	1.672E-03	9.598E-06	1.682E-03	8.929E-04	9.598E-06	9.025E-04
582067.51	4199936.3	3680.18215	0.05862	1.665E-03	9.722E-06	1.674E-03	8.889E-04	9.722E-06	8.987E-04
581230.41	4199250.94	3676.97666	0.05212	1.663E-03	8.644E-06	1.672E-03	8.882E-04	8.644E-06	8.968E-04
581597.84	4199820.21	3673.72516	0.055	1.662E-03	9.122E-06	1.671E-03	8.874E-04	9.122E-06	8.965E-04
581264.4	4199436.73	3671.65858	0.05419	1.661E-03	8.987E-06	1.670E-03	8.869E-04	8.987E-06	8.959E-04
581219.47	4198697.82	3670.32391	0.05725	1.660E-03	9.495E-06	1.670E-03	8.866E-04	9.495E-06	8.961E-04
581308.43	4199565.41	3662.19498	0.05368	1.657E-03	8.903E-06	1.665E-03	8.846E-04	8.903E-06	8.935E-04
582031.26	4199933.23	3651.96536	0.05829	1.652E-03	9.667E-06	1.662E-03	8.821E-04	9.667E-06	8.918E-04
581233.27	4198636.1	3648.26074	0.05362	1.650E-03	8.893E-06	1.659E-03	8.812E-04	8.893E-06	8.901E-04
581518.46	4199791.04	3637.97712	0.05353	1.646E-03	8.878E-06	1.654E-03	8.787E-04	8.878E-06	8.876E-04
581273.61	4198517.62	3636.07365	0.05346	1.645E-03	8.866E-06	1.654E-03	8.783E-04	8.866E-06	8.872E-04
581250.69	4198570.39	3620.02624	0.05296	1.637E-03	8.783E-06	1.646E-03	8.744E-04	8.783E-06	8.832E-04
581221.65	4198665.14	3616.08359	0.05335	1.636E-03	8.848E-06	1.645E-03	8.735E-04	8.848E-06	8.823E-04
582009.31	4199935.02	3604.14846	0.0577	1.630E-03	9.569E-06	1.640E-03	8.706E-04	9.569E-06	8.801E-04
581344.63	4199641.57	3603.44907	0.05256	1.630E-03	8.717E-06	1.639E-03	8.704E-04	8.717E-06	8.791E-04
581696.6	4199859.79	3598.18889	0.0556	1.628E-03	9.221E-06	1.637E-03	8.691E-04	9.221E-06	8.784E-04
581742.38	4199873.46	3584.38385	0.05603	1.621E-03	9.292E-06	1.631E-03	8.658E-04	9.292E-06	8.751E-04
581395.53	4198336.17	3568.51523	0.0569	1.614E-03	9.437E-06	1.624E-03	8.620E-04	9.437E-06	8.714E-04
581986.84	4199935.02	3568.11029	0.05724	1.614E-03	9.493E-06	1.623E-03	8.619E-04	9.493E-06	8.714E-04
581538.75	4199811.55	3567.1586	0.05299	1.614E-03	8.788E-06	1.622E-03	8.616E-04	8.788E-06	8.704E-04
581304.02	4198442.59	3565.19684	0.05271	1.613E-03	8.742E-06	1.621E-03	8.612E-04	8.742E-06	8.699E-04
581966.42	4199932.98	3549.74198	0.05699	1.606E-03	9.452E-06	1.615E-03	8.574E-04	9.452E-06	8.669E-04
581285.14	4198470.84	3548.7426	0.05216	1.605E-03	8.651E-06	1.614E-03	8.572E-04	8.651E-06	8.658E-04
581607.64	4199842.21	3538.55205	0.05364	1.601E-03	8.896E-06	1.609E-03	8.547E-04	8.896E-06	8.636E-04
582327.7	4199982.05	3528.90079	0.05668	1.596E-03	9.400E-06	1.606E-03	8.524E-04	9.400E-06	8.618E-04
582284.08	4199981.07	3527.84657	0.05657	1.596E-03	9.382E-06	1.605E-03	8.521E-04	9.382E-06	8.615E-04
582373.6	4199981.4	3527.78346	0.05683	1.596E-03	9.425E-06	1.605E-03	8.521E-04	9.425E-06	8.616E-04
581357.41	4198365.58	3527.15504	0.05401	1.595E-03	8.957E-06	1.604E-03	8.520E-04	8.957E-06	8.609E-04
581942.93	4199932.72	3511.64098	0.05648	1.588E-03	9.367E-06	1.598E-03	8.482E-04	9.367E-06	8.576E-04
581298.63	4199590.29	3497.25345	0.05169	1.582E-03	8.573E-06	1.590E-03	8.448E-04	8.573E-06	8.533E-04
581460.44	4199778.95	3496.19168	0.05136	1.581E-03	8.518E-06	1.590E-03	8.445E-04	8.518E-06	8.530E-04
581344.63	4199665.7	3496.11606	0.0512	1.581E-03	8.491E-06	1.590E-03	8.445E-04	8.491E-06	8.530E-04
581334.54	4198384.82	3493.47754	0.05287	1.580E-03	8.768E-06	1.589E-03	8.438E-04	8.768E-06	8.526E-04
581251.19	4198525.63	3489.79866	0.05106	1.579E-03	8.468E-06	1.587E-03	8.430E-04	8.468E-06	8.514E-04
581789.5	4199898.51	3485.3305	0.05535	1.577E-03	9.180E-06	1.586E-03	8.419E-04	9.180E-06	8.511E-04
581918.17	4199931.7	3475.97871	0.05598	1.572E-03	9.284E-06	1.582E-03	8.396E-04	9.284E-06	8.489E-04
581252.92	4199478.08	3474.96081	0.05034	1.572E-03	8.349E-06	1.580E-03	8.394E-04	8.349E-06	8.477E-04
582207.59	4199983.02	3472.96749	0.05581	1.571E-03	9.256E-06	1.580E-03	8.389E-04	9.256E-06	8.481E-04
581253.68	4199488.29	3458.40734	0.05113	1.564E-03	8.480E-06	1.573E-03	8.354E-04	8.480E-06	8.439E-04
582160.39	4199979.77	3457.82037	0.05566	1.564E-03	9.231E-06	1.573E-03	8.352E-04	9.231E-06	8.445E-04
581240.66	4199438.26	3452.34787	0.04881	1.562E-03	8.095E-06	1.570E-03	8.339E-04	8.095E-06	8.420E-04
581315.24	4198399.36	3446.46794	0.05172	1.559E-03	8.578E-06	1.568E-03	8.325E-04	8.578E-06	8.411E-04
581552.96	4199836.16	3444.02813	0.05181	1.558E-03	8.593E-06	1.566E-03	8.319E-04	8.593E-06	8.405E-04
581302.4	4199614.8	3432.77853	0.05083	1.553E-03	8.430E-06	1.561E-03	8.292E-04	8.430E-06	8.376E-04
581281.62	4198446.17	3429.26586	0.05061	1.551E-03	8.394E-06	1.560E-03	8.283E-04	8.394E-06	8.367E-04
581895.96	4199934.25	3418.45483	0.05519	1.546E-03	9.153E-06	1.555E-03	8.257E-04	9.153E-06	8.349E-04
581428.26	4199770.53	3409.03698	0.05016	1.542E-03	8.319E-06	1.550E-03	8.234E-04	8.319E-06	8.318E-04
582111.24	4199980.42	3404.2268	0.05503	1.540E-03	9.127E-06	1.549E-03	8.223E-04	9.127E-06	8.314E-04
581362.13	4198337.26	3402.34722	0.05278	1.539E-03	8.753E-06	1.548E-03	8.218E-04	8.753E-06	8.306E-04
581492.92	4199814.78	3400.7377	0.05059	1.538E-03	8.390E-06	1.547E-03	8.214E-04	8.390E-06	8.298E-04
581618.27	4199865.43	3400.44615	0.05223	1.538E-03	8.662E-06	1.547E-03	8.214E-04	8.662E-06	8.300E-04
581876.3	4199933.74	3387.62943	0.05472	1.532E-03	9.075E-06	1.541E-03	8.183E-04	9.075E-06	8.274E-04
581789.76	4199913.32	3379.14654	0.05406	1.528E-03	8.966E-06	1.537E-03	8.162E-04	8.966E-06	8.252E-04
581253.01	4199519.78	3375.82591	0.05075	1.527E-03	8.417E-06	1.535E-03	8.154E-04	8.417E-06	8.238E-04
581744.77	4199904.7	3361.27242	0.05341	1.520E-03	8.858E-06	1.529E-03	8.119E-04	8.858E-06	8.208E-04
581341.24	4199692.47	3360.75487	0.04952	1.520E-03	8.213E-06	1.528E-03	8.118E-04	8.213E-06	8.200E-04
581851.54	4199932.98	3349.68742	0.05413	1.515E-03	8.977E-06	1.524E-03	8.091E-04	8.977E-06	8.181E-04
581268.49	4198444.57	3337.91786	0.04923	1.510E-03	8.165E-06	1.518E-03	8.063E-04	8.165E-06	8.144E-04
581302.02	4199640.06	3336.85471	0.04956	1.509E-03	8.219E-06	1.518E-03	8.060E-04	8.219E-06	8.142E-04
581402.26	4199763.06	3334.29349	0.04918	1.508E-03	8.156E-06	1.516E-03	8.054E-04	8.156E-06	8.136E-04
581214.63	4199379.8	3322.47374	0.04473	1.503E-03	7.418E-06	1.510E-03	8.025E-04	7.418E-06	8.100E-04
581827.8	4199931.19	3321.05064	0.05363	1.502E-03	8.894E-06	1.511E-03	8.022E-04	8.894E-06	8.111E-04
581562.08	4199859.7	3315.68731	0.05048	1.500E-03	8.372E-06	1.508E-03	8.009E-04	8.372E-06	8.093E-04

581211.48	4198558.77	3290.39818	0.04825	1.488E-03	8.002E-06	1.496E-03	7.948E-04	8.002E-06	8.028E-04
581229.43	4199481.65	3275.1429	0.04589	1.481E-03	7.611E-06	1.489E-03	7.911E-04	7.611E-06	7.987E-04
581790.27	4199930.43	3262.88236	0.05263	1.476E-03	8.729E-06	1.485E-03	7.881E-04	8.729E-06	7.969E-04
581237.09	4198482.7	3260.10639	0.04781	1.475E-03	7.929E-06	1.483E-03	7.875E-04	7.929E-06	7.954E-04
581341.61	4199716.98	3259.06858	0.04823	1.474E-03	7.999E-06	1.482E-03	7.872E-04	7.999E-06	7.952E-04
581994.06	4199980.75	3254.99755	0.05322	1.472E-03	8.826E-06	1.481E-03	7.862E-04	8.826E-06	7.951E-04
581228.92	4199496.72	3242.67253	0.04605	1.467E-03	7.637E-06	1.474E-03	7.833E-04	7.637E-06	7.909E-04
581629.12	4199893.2	3238.90368	0.05051	1.465E-03	8.377E-06	1.473E-03	7.824E-04	8.377E-06	7.907E-04
581373.21	4199756.97	3234.28429	0.04793	1.463E-03	7.949E-06	1.471E-03	7.812E-04	7.949E-06	7.892E-04
581479.09	4199836.08	3234.13574	0.04856	1.463E-03	8.054E-06	1.471E-03	7.812E-04	8.054E-06	7.893E-04
581445.97	4199817.34	3227.46356	0.04819	1.460E-03	7.992E-06	1.468E-03	7.796E-04	7.992E-06	7.876E-04
581223.95	4198500	3223.69362	0.04724	1.458E-03	7.835E-06	1.466E-03	7.787E-04	7.835E-06	7.865E-04
581251.5	4199575.59	3218.35596	0.04845	1.456E-03	8.035E-06	1.464E-03	7.774E-04	8.035E-06	7.854E-04
581244.46	4198453.54	3216.91158	0.04737	1.455E-03	7.856E-06	1.463E-03	7.770E-04	7.856E-06	7.849E-04
581295.99	4199664.19	3213.73438	0.04799	1.454E-03	7.959E-06	1.462E-03	7.763E-04	7.959E-06	7.842E-04
581210.18	4198527.55	3204.5357	0.04692	1.450E-03	7.782E-06	1.457E-03	7.741E-04	7.782E-06	7.818E-04
581249.9	4198434.96	3188.64621	0.04686	1.442E-03	7.772E-06	1.450E-03	7.702E-04	7.772E-06	7.780E-04
581740.86	4199931.61	3176.07835	0.05112	1.437E-03	8.478E-06	1.445E-03	7.672E-04	8.478E-06	7.757E-04
581946.87	4199983.02	3171.43564	0.05212	1.435E-03	8.644E-06	1.443E-03	7.661E-04	8.644E-06	7.747E-04
581205.69	4199430.35	3169.65286	0.04041	1.434E-03	6.702E-06	1.440E-03	7.656E-04	6.702E-06	7.723E-04
581197.27	4199390.78	3162.19837	0.04073	1.430E-03	6.755E-06	1.437E-03	7.638E-04	6.755E-06	7.706E-04
581213.09	4199484.46	3143.75566	0.04061	1.422E-03	6.735E-06	1.429E-03	7.594E-04	6.735E-06	7.661E-04
581721.77	4199932.69	3140.08326	0.05048	1.420E-03	8.372E-06	1.429E-03	7.585E-04	8.372E-06	7.669E-04
581918.55	4199982.05	3134.93121	0.05161	1.418E-03	8.559E-06	1.427E-03	7.572E-04	8.559E-06	7.658E-04
581294.48	4199686.06	3127.8626	0.04686	1.415E-03	7.772E-06	1.423E-03	7.555E-04	7.772E-06	7.633E-04
581583.08	4199898.51	3124.07711	0.04856	1.413E-03	8.054E-06	1.421E-03	7.546E-04	8.054E-06	7.627E-04
581336.7	4199748.12	3106.48012	0.04634	1.405E-03	7.685E-06	1.413E-03	7.504E-04	7.685E-06	7.581E-04
581245.84	4199606.13	3097.6028	0.04694	1.401E-03	7.785E-06	1.409E-03	7.482E-04	7.785E-06	7.560E-04
581633.03	4199917.94	3093.60588	0.04886	1.399E-03	8.103E-06	1.407E-03	7.473E-04	8.103E-06	7.554E-04
581208.24	4199497.99	3084.17696	0.03975	1.395E-03	6.592E-06	1.402E-03	7.450E-04	6.592E-06	7.516E-04
581679.46	4199931.61	3083.33209	0.04931	1.395E-03	8.178E-06	1.403E-03	7.448E-04	8.178E-06	7.530E-04
581390.4	4199807.51	3075.01788	0.04607	1.391E-03	7.641E-06	1.399E-03	7.428E-04	7.641E-06	7.504E-04
581497.63	4199875.63	3069.57883	0.04688	1.388E-03	7.775E-06	1.396E-03	7.415E-04	7.775E-06	7.492E-04
581195.23	4199444.9	3068.94157	0.03905	1.388E-03	6.476E-06	1.395E-03	7.413E-04	6.476E-06	7.478E-04
581468.03	4199866.23	3041.82876	0.04625	1.376E-03	7.670E-06	1.384E-03	7.348E-04	7.670E-06	7.424E-04
581247.35	4199633.27	3029.94779	0.04609	1.371E-03	7.644E-06	1.378E-03	7.319E-04	7.644E-06	7.395E-04
581638.02	4199930.52	3027.74646	0.04814	1.370E-03	7.984E-06	1.378E-03	7.313E-04	7.984E-06	7.393E-04
581291.84	4199715.09	3014.76944	0.04533	1.364E-03	7.518E-06	1.371E-03	7.282E-04	7.518E-06	7.357E-04
581362.53	4199800.3	3000.79484	0.04507	1.357E-03	7.475E-06	1.365E-03	7.248E-04	7.475E-06	7.323E-04
581425.97	4199850.62	2996.91748	0.04537	1.356E-03	7.525E-06	1.363E-03	7.239E-04	7.525E-06	7.314E-04
581588.38	4199926.09	2977.10492	0.0469	1.347E-03	7.778E-06	1.354E-03	7.191E-04	7.778E-06	7.269E-04
581186.29	4199466.08	2973.02117	0.03755	1.345E-03	6.228E-06	1.351E-03	7.181E-04	6.228E-06	7.244E-04
581816.02	4199984.98	2964.34317	0.04903	1.341E-03	8.132E-06	1.349E-03	7.160E-04	8.132E-06	7.242E-04
581181.19	4199450.26	2957.55029	0.03725	1.338E-03	6.178E-06	1.344E-03	7.144E-04	6.178E-06	7.206E-04
581341.88	4199796.36	2937.36729	0.04417	1.329E-03	7.325E-06	1.336E-03	7.095E-04	7.325E-06	7.168E-04
581784.44	4199982.05	2936.61213	0.04848	1.328E-03	8.040E-06	1.336E-03	7.093E-04	8.040E-06	7.174E-04
581242.83	4199661.55	2926.38493	0.04468	1.324E-03	7.410E-06	1.331E-03	7.069E-04	7.410E-06	7.143E-04
581294.86	4199751.29	2905.64505	0.04381	1.314E-03	7.266E-06	1.322E-03	7.019E-04	7.266E-06	7.091E-04
581552.37	4199930.55	2892.45928	0.04546	1.308E-03	7.539E-06	1.316E-03	6.987E-04	7.539E-06	7.062E-04
581758.4	4199984.65	2886.81573	0.04766	1.306E-03	7.904E-06	1.314E-03	6.973E-04	7.904E-06	7.052E-04
581461.11	4199895.55	2880.56743	0.04431	1.303E-03	7.349E-06	1.310E-03	6.958E-04	7.349E-06	7.031E-04
581175.31	4199477.57	2880.77985	0.03613	1.303E-03	5.992E-06	1.309E-03	6.958E-04	5.992E-06	7.018E-04
581520.84	4199929.42	2843.07809	0.04451	1.286E-03	7.382E-06	1.293E-03	6.867E-04	7.382E-06	6.941E-04
581409.94	4199874.8	2840.88496	0.04341	1.285E-03	7.199E-06	1.292E-03	6.862E-04	7.199E-06	6.934E-04
581684.84	4199976.51	2837.03322	0.04635	1.283E-03	7.687E-06	1.291E-03	6.853E-04	7.687E-06	6.930E-04
581318.11	4199801.77	2825.17099	0.04269	1.278E-03	7.080E-06	1.285E-03	6.824E-04	7.080E-06	6.895E-04
581364.5	4199849.47	2808.47536	0.04269	1.270E-03	7.080E-06	1.277E-03	6.784E-04	7.080E-06	6.855E-04
581267.34	4199747.52	2796.40986	0.04246	1.265E-03	7.042E-06	1.272E-03	6.755E-04	7.042E-06	6.825E-04
581495.88	4199929.64	2795.68848	0.04367	1.265E-03	7.243E-06	1.272E-03	6.753E-04	7.243E-06	6.825E-04
581660.43	4199983.35	2771.45099	0.04527	1.254E-03	7.508E-06	1.261E-03	6.694E-04	7.508E-06	6.769E-04
581631.86	4199979.11	2758.05066	0.04479	1.248E-03	7.428E-06	1.255E-03	6.662E-04	7.428E-06	6.736E-04
581376.47	4199871.76	2757.00871	0.04215	1.247E-03	6.990E-06	1.254E-03	6.660E-04	6.990E-06	6.729E-04
581292.7	4199794.89	2750.46021	0.04175	1.244E-03	6.924E-06	1.251E-03	6.644E-04	6.924E-06	6.713E-04
581463.66	4199927.37	2741.03104	0.0427	1.240E-03	7.082E-06	1.247E-03	6.621E-04	7.082E-06	6.692E-04
581343.03	4199849.14	2740.32883	0.04172	1.240E-03	6.919E-06	1.246E-03	6.619E-04	6.919E-06	6.688E-04
581409.66	4199902.74	2722.25313	0.042	1.231E-03	6.966E-06	1.238E-03	6.576E-04	6.966E-06	6.645E-04
581589.02	4199979.11	2704.3174	0.04364	1.223E-03	7.238E-06	1.230E-03	6.532E-04	7.238E-06	6.605E-04
581323.52	4199847.18	2683.28763	0.04094	1.214E-03	6.790E-06	1.221E-03	6.481E-04	6.790E-06	6.549E-04
581375.91	4199891.4	2678.69883	0.04121	1.212E-03	6.835E-06	1.218E-03	6.470E-04	6.835E-06	6.539E-04
581562.36	4199978.2	2673.71597	0.04296	1.209E-03	7.125E-06	1.217E-03	6.458E-04	7.125E-06	6.530E-04
581242.45	4199753.17	2673.02587	0.04072	1.209E-03	6.753E-06	1.216E-03	6.457E-04	6.753E-06	6.524E-04
581263.03	4199793.57	2639.79671	0.03997	1.194E-03	6.629E-06	1.201E-03	6.376E-04	6.629E-06	6.443E-04
581537.85	4199981.37	2626.11365	0.04211	1.188E-03	6.984E-06	1.195E-03	6.343E-04	6.984E-06	6.413E-04
581408.98	4199930.32	2609.96894	0.04065	1.181E-03	6.742E-06	1.187E-03	6.304E-04	6.742E-06	6.372E-04
581301.06	4199848.65	2604.17752	0.03991	1.178E-03	6.619E-06	1.185E-03	6.290E-04	6.619E-06	6.357E-04
581516.98	4199980.01	2601.87135	0.04159	1.177E-03	6.898E-06	1.184E-03	6.285E-04	6.898E-06	6.354E-04
581375.36	4199912.7	2596.80354	0.04022	1.175E-03	6.670E-06	1.181E-03	6.273E-04	6.670E-06	6.339E-04
581338.22	4199891.64	2573.2301	0.03968	1.164E-03	6.581E-06	1.171E-03	6.216E-04	6.581E-06	6.281E-04
581492.7	4199980.24	2564.51116	0.04088	1.160E-03	6.780E-06	1.167E-03	6.195E-04	6.780E-06	6.262E-04
581242.54	4199793.41	2562.19341	0.0383	1.159E-03	6.352E-06	1.165E-03	6.189E-04	6.352E-06	6.252E-04
581473.65	4199978.65	2541.25163	0.04041	1.149E-03	6.702E-06	1.156E-03	6.138E-04	6.702E-06	6.205E-04
581322.93	4199889.69	2536.5316	0.03915	1.147E-03	6.493E-06	1.154E-03	6.127E-04	6.493E-06	6.192E-04
581278.28	4199849.14	2527.687	0.03894	1.143E-03	6.458E-06	1.150E-03	6.106E-04	6.458E-06	6.170E-04
581371.49	4199931.51	2518.78283	0.03925	1.139E-03	6.510E-06	1.146E-03	6.084E-04	6.510E-06	6.149E-04
581337.25	4199911.82	2501.76137	0.0388	1.132E-03	6.435E-06	1.138E-03	6.043E-04	6.435E-06	6.107E-04
581303.72	4199889.36	2482.50988	0.0384	1.123E-03	6.369E-06	1.129E-03	5.996E-04	6.369E-06	6.060E-04
581246.47	4199838	2454.33277	0.03673	1.110E-03	6.092E-06	1.116E-03	5.928E-04	6.092E-06	5.989E-04
581268.77	4199871.27	2432.7778	0.03774	1.100E-03	6.259E-06	1.107E-03	5.876E-04	6.259E-06	5.939E-04
581335.29	4199934.6	2421.80139	0.03781	1.095E-03	6.271E-06	1.102E-03	5.850E-04	6.271E-06	5.913E-04
581401.95	4199980.01	2411.00066	0.03818	1.091E-03	6.332E-06	1.097E-03	5.824E-04	6.332E-06	5.887E-04
581303.4	4199915.73	2400.00887	0.03741	1.086E-03	6.204E-06	1.092E-03	5.797E-04	6.204E-06	5.859E-04
581266.31	4199890.62	2370.96148	0.03695	1.072E-03	6.128E-06	1.079E-03	5.727E-04	6.128E-06	5.788E-04
581303.4	4199932.97	2348.21029	0.03677	1.062E-03	6.098E-06	1.068E-03	5.672E-04	6.098E-06	5.733E-04
581352.04	4199977.97	2319.50229	0.03671	1.049E-03	6.088E-06	1.055E-03	5.603E-04	6.088E-06	5.664E-04
581262.7	4199911.27	2304.34678	0.03609	1.042E-03	5.985E-06	1.048E-03	5.566E-04	5.985E-06	5.626E-04
581323.19	4199978.15	2259.66071	0.03577	1.022E-03	5.932E-06	1.028E-03	5.458E-04	5.932E-06	5.518E-04
581262.54	4199928.16	2258.72379	0.03551	1.022E-03	5.889E-06	1.028E-03	5.456E-04	5.889E-06	5.515E-04
581287.95	4199974.38	2194.82598	0.03478	9.928E-04	5.768E-06	9.986E-04	5.302E-04	5.768E-06	5.359E-04
581262.7	4199971.92	2145.4617	0.03408	9.705E-04	5.652E-06	9.761E-04	5.182E-04	5.652E-06	5.239E-04
CONCUNIT ug/	m^3								
DEPUNIT g/m^	2								

Search Parameters

County	Contra Costa	
Roadway Direction	East-West	
Side of the Roadway	North	
Distance from Roadway	437	feet
Annual Average Daily Traffic (ADT)	12,000	

Results

Contra Costa County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

0.024 ($\mu g/m^3$)

Cancer Risk

0.92 (per million)

Data for Contra Costa County based on meteorological data collected from Chevron Refinery in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

Search Parameters

County	Contra Costa	
Roadway Direction	East-West	
Side of the Roadway	North	
Distance from Roadway	20	feet
Annual Average Daily Traffic (ADT)	12,000	

Results

Contra Costa County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

0.128 ($\mu g/m^3$)

Cancer Risk

4.86 (per million)

Data for Contra Costa County based on meteorological data collected from Chevron Refinery in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

How to Use the Distance Adjustment Multiplier Tool for Gasoline Dispensing Facilities (GDF)

This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions (GDF's).

1. Obtain the GDF cancer risk and/or chronic hazard index from the District's Stationary Source Screening Analysis tool for facilities where the Plant No. is preceded with a 'G'. If the distance to the nearest receptor is less than 20 meters, the distance adjustment multiplier table cannot be used and an air dispersion modeling analysis using site-specific information is needed to refine the cancer risk and/or chronic hazard index estimate.

2. Determine the shortest distance from the GDF to the nearest receptor.

3. In the table below, enter the cancer risk and/or chronic hazard index found in step 1 for the GDF in the row which aligns with the shortest distance from each GDF to the nearest receptor (found in step 2). If the shortest distance to the receptor falls between two distance values, select the multiplier corresponding to the smaller distance. For distances beyond 300 meters, use the multiplier 0.015. The resulting product is the adjusted cancer risk in a million or the adjusted chronic hazard index for the GDF.

Note: These distance adjustment multipliers may be used only for the screening level health risk values indicated in the District's Stationary Source Screening Analysis tool for gasoline dispensing facilities. This distance multiplier tool may not be used to adjust values from an HRA if an HRA for the facility was conducted.

Distance meters	Distance feet	Distance adjustment multiplier	Enter Cancer Risk	Adjusted Cancer Risk	Enter Chronic Hazard Index	Adjusted Chronic Hazard Index
20	66	1.000		0		0
25	82	0.728		0		0
30	98	0.559		0		0
35	115	0.445		0		0
40	131	0.365		0		0
45	148	0.305		0		0
50	164	0.260		0		0
55	180	0.225		0		0
60	197	0.197		0		0
65	213	0.174		0		0
70	230	0.155		0		0
75	246	0.139		0		0
80	262	0.126		0		0
85	279	0.114		0		0
90	295	0.104		0		0
95	312	0.096		0		0
100	328	0.088		0		0
105	344	0.082		0		0
110	361	0.076		0		0
115	377	0.071		0		0
120	394	0.066		0		0
125	410	0.062		0		0
130	426	0.058		0		0
135	443	0.055		0		0
140	459	0.052		0		0
145	476	0.049		0		0
150	492	0.046		0		0
155	508	0.044		0		0
160	525	0.042		0		0
165	541	0.040		0		0
170	558	0.038		0		0
175	574	0.036		0		0
180	590	0.034		0		0
185	607	0.033		0		0
190	623	0.031		0		0
195	640	0.030		0		0
200	656	0.029		0		0
205	672	0.028		0		0
210	689	0.027		0		0
215	705	0.026		0		0
220	722	0.025	26.35	0.653069769	0.037	0.000917024
225	738	0.024		0		0
230	754	0.023		0		0
235	771	0.022		0		0
240	787	0.022		0		0
245	804	0.021		0		0
250	820	0.020		0		0
255	836	0.020		0		0
260	853	0.019		0		0
265	869	0.018		0		0
270	886	0.018	26.35	0.468276463	0.037	0.000657542
275	902	0.017		0		0
280	918	0.017		0		0
285	935	0.016		0		0
290	951	0.016		0		0
295	968	0.015		0		0
300	984	0.015		0		0

```
* AERMOD ( 1808  1): C:\Users\kj    ohnson\Desktop\    42820009O akConHRA\   OakParkC   onHRA\Da kParkCon   3/3/2001        9
* AERMET ( 1413  4):                                                                                  21:50:00        8
* MODELING OPTI  ONS USED:  Reg   DFAULT CONC E    LEV URBA N
* PLOT           FILE OF ANNUAL   VALUES AVERAGED  ACROSS    5 YEARS     FOR SOUR  CE GROUP   : AREA
* FOR A          TOTAL OF  1783   RECEPTORS.
* FORMA          T: (3(1X,F13.5)  ,3(1X,F8.2),2X,  A6,2X,A8,   2X,I8.8,2   X,A8)
* X              Y                AVERAGE CONC     ZELEV       ZHILL       ZFLAG     AVE       GRP       NUM YRS  NET ID
*
        581735.95   4199116.71    60885.96807        25         25         0 ANNUAL    AREA            5 UCART1
        581747.57   4199116.71    71544.09542        25         25         0 ANNUAL    AREA            5 UCART1
        581759.19   4199116.71    85051.39488        25         25         0 ANNUAL    AREA            5 UCART1
        581770.81   4199116.71    101869.8576        25         25         0 ANNUAL    AREA            5 UCART1
        581782.43   4199116.71    121795.4168        25         25         0 ANNUAL    AREA            5 UCART1
        581794.05   4199116.71    143161.478      24.6       24.6         0 ANNUAL    AREA            5 UCART1
        581805.67   4199116.71    165844.905      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581817.29   4199116.71    188899.4644        24         24         0 ANNUAL    AREA            5 UCART1
        581828.91   4199116.71    213162.2553        24         24         0 ANNUAL    AREA            5 UCART1
        581840.53   4199116.71    237767.4642        24         24         0 ANNUAL    AREA            5 UCART1
        581852.15   4199116.71    262287.5198      23.7       23.7         0 ANNUAL    AREA            5 UCART1
        581735.95   4199139.71    51840.36742        25         25         0 ANNUAL    AREA            5 UCART1
        581747.57   4199139.71    58631.28192        25         25         0 ANNUAL    AREA            5 UCART1
        581759.19   4199139.71    66495.54267      24.9       24.9         0 ANNUAL    AREA            5 UCART1
        581770.81   4199139.71    75419.71213      24.6       24.6         0 ANNUAL    AREA            5 UCART1
        581782.43   4199139.71    85326.89711      24.2       24.2         0 ANNUAL    AREA            5 UCART1
        581794.05   4199139.71    96339.47602      24.1       24.1         0 ANNUAL    AREA            5 UCART1
        581805.67   4199139.71    108291.9996      24.1       24.1         0 ANNUAL    AREA            5 UCART1
        581817.29   4199139.71    121050.718        24         24         0 ANNUAL    AREA            5 UCART1
        581828.91   4199139.71    135161.6859        24         24         0 ANNUAL    AREA            5 UCART1
        581840.53   4199139.71    151378.0324        24         24         0 ANNUAL    AREA            5 UCART1
        581852.15   4199139.71    170648.2517      23.7       23.7         0 ANNUAL    AREA            5 UCART1
        581735.95   4199162.71    44608.51689      24.8       24.8         0 ANNUAL    AREA            5 UCART1
        581747.57   4199162.71    49245.72116      24.6       24.6         0 ANNUAL    AREA            5 UCART1
        581759.19   4199162.71    54420.05651      24.4       24.4         0 ANNUAL    AREA            5 UCART1
        581770.81   4199162.71    60150.51134      24.2       24.2         0 ANNUAL    AREA            5 UCART1
        581782.43   4199162.71    66438.92242        24         24         0 ANNUAL    AREA            5 UCART1
        581794.05   4199162.71    73364.35693        24         24         0 ANNUAL    AREA            5 UCART1
        581805.67   4199162.71    80908.30568        24         24         0 ANNUAL    AREA            5 UCART1
        581817.29   4199162.71    89210.20791        24         24         0 ANNUAL    AREA            5 UCART1
        581828.91   4199162.71    98617.1648         24         24         0 ANNUAL    AREA            5 UCART1
        581840.53   4199162.71    109819.7719        24         24         0 ANNUAL    AREA            5 UCART1
        581852.15   4199162.71    123928.2725      23.7       23.7         0 ANNUAL    AREA            5 UCART1
        581735.95   4199185.71    38803.22241      24.4       24.4         0 ANNUAL    AREA            5 UCART1
        581747.57   4199185.71    42154.7901       24.1       24.1         0 ANNUAL    AREA            5 UCART1
        581759.19   4199185.71    45858.72935      24.1       24.1         0 ANNUAL    AREA            5 UCART1
        581770.81   4199185.71    49917.52515      24.2       24.2         0 ANNUAL    AREA            5 UCART1
        581782.43   4199185.71    54336.55073      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581794.05   4199185.71    59120.24042      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581805.67   4199185.71    64332.34986      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581817.29   4199185.71    70071.83688      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581828.91   4199185.71    76540.58454      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581840.53   4199185.71    84126.47726      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581852.15   4199185.71    93325.07684        24         24         0 ANNUAL    AREA            5 UCART1
        581735.95   4199208.71    34062.09824        24         24         0 ANNUAL    AREA            5 UCART1
        581747.57   4199208.71    36618.05198      24.1       24.1         0 ANNUAL    AREA            5 UCART1
        581759.19   4199208.71    39384.60924      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581770.81   4199208.71    42374.11067      24.6       24.6         0 ANNUAL    AREA            5 UCART1
        581782.43   4199208.71    45597.26383        25         25         0 ANNUAL    AREA            5 UCART1
        581794.05   4199208.71    49020.66912        25         25         0 ANNUAL    AREA            5 UCART1
        581805.67   4199208.71    52697.59053        25         25         0 ANNUAL    AREA            5 UCART1
        581817.29   4199208.71    56658.1585         25         25         0 ANNUAL    AREA            5 UCART1
        581828.91   4199208.71    60950.37463        25         25         0 ANNUAL    AREA            5 UCART1
        581840.53   4199208.71    65647.9773         25         25         0 ANNUAL    AREA            5 UCART1
        581852.15   4199208.71    70760.72407      24.7       24.7         0 ANNUAL    AREA            5 UCART1
        581735.95   4199231.71    30152.95855      24.3       24.3         0 ANNUAL    AREA            5 UCART1
        581747.57   4199231.71    32133.07414      24.7       24.7         0 ANNUAL    AREA            5 UCART1
        581759.19   4199231.71    34227.86342      24.9       24.9         0 ANNUAL    AREA            5 UCART1
        581770.81   4199231.71    36440.74372      24.9       24.9         0 ANNUAL    AREA            5 UCART1
        581782.43   4199231.71    38789.64678        25         25         0 ANNUAL    AREA            5 UCART1
        581794.05   4199231.71    41262.88947        25         25         0 ANNUAL    AREA            5 UCART1
        581805.67   4199231.71    43863.77565        25         25         0 ANNUAL    AREA            5 UCART1
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        581747.57   4199254.71    28358.60108      24.8       24.8         0 ANNUAL    AREA            5 UCART1
        581759.19   4199254.71    29964.02364        25         25         0 ANNUAL    AREA            5 UCART1
        581770.81   4199254.71    31636.82826        25         25         0 ANNUAL    AREA            5 UCART1
        581782.43   4199254.71    33381.62045        25         25         0 ANNUAL    AREA            5 UCART1
        581794.05   4199254.71    35193.27322        25         25         0 ANNUAL    AREA            5 UCART1
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        581770.81   4199300.71    24411.79872      24.9       24.9         0 ANNUAL    AREA            5 UCART1
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        581759.19   4199346.71    18731.8388       24.9       24.9         0 ANNUAL    AREA            5 UCART1
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        581980.59   4199093.2     532377.6618      20.1       20.1         0 ANNUAL    AREA            5 UCART2
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        582038.1    4199093.2     398160.1669        19         19         0 ANNUAL    AREA            5 UCART2
        582057.27   4199093.2     377425.6093        19         19         0 ANNUAL    AREA            5 UCART2
        582076.44   4199093.2     358520.3554        19         19         0 ANNUAL    AREA            5 UCART2
        582095.61   4199093.2     336852.8284      18.6       18.6         0 ANNUAL    AREA            5 UCART2
        582114.78   4199093.2     312072.6835        18         18         0 ANNUAL    AREA            5 UCART2
        581961.42   4199106.81    527786.3288      20.7       20.7         0 ANNUAL    AREA            5 UCART2
        581980.59   4199106.81    439380.5445      20.3       20.3         0 ANNUAL    AREA            5 UCART2
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* AERMOD ( 1): C:\User ohnson\De42820009CakConHRA\OakParkC   onHRA\Da kParkCon   3/3/2001        9
* AERMET ( : 4):                                                                  21:50:00        8
* MODELING ONS USED: DFAULT C(LEV  URBA N
* PLOT           FILE OF AN VALUES AV ACROSS    5 YEARS     FOR SOUR  CE GROUP : LINE
* FOR A          TOTAL OF  RECEPTORS.
* FORMA          T: (3(1X,F1 ,3(1X,F8.2) A6,2X,A8,   2X,I8.8,2   X,A8)
* X              Y                AVERAGE CZELEV       ZHILL       ZFLAG     AVE       GRP       NUM YRS  NET ID
*
        581736   4199117    0.37621        25         25         0 ANNUAL    LINE            5 UCART1
        581747.6 4199117    0.40151        25         25         0 ANNUAL    LINE            5 UCART1
        581759.2 4199117    0.42876        25         25         0 ANNUAL    LINE            5 UCART1
        581770.8 4199117    0.45797        25         25         0 ANNUAL    LINE            5 UCART1
        581782.4 4199117    0.48913        25         25         0 ANNUAL    LINE            5 UCART1
        581794.1 4199117    0.52398      24.6       24.6         0 ANNUAL    LINE            5 UCART1
        581805.7 4199117    0.56035      24.3       24.3         0 ANNUAL    LINE            5 UCART1
        581817.3 4199117    0.59848        24         24         0 ANNUAL    LINE            5 UCART1
        581828.9 4199117    0.63608        24         24         0 ANNUAL    LINE            5 UCART1
        581840.5 4199117    0.67427        24         24         0 ANNUAL    LINE            5 UCART1
        581852.2 4199117    0.71507      23.7       23.7         0 ANNUAL    LINE            5 UCART1
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        581747.6 4199140    0.36444        25         25         0 ANNUAL    LINE            5 UCART1
        581759.2 4199140    0.38596      24.9       24.9         0 ANNUAL    LINE            5 UCART1
        581770.8 4199140    0.40915      24.6       24.6         0 ANNUAL    LINE            5 UCART1
        581782.4 4199140    0.43375      24.2       24.2         0 ANNUAL    LINE            5 UCART1
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        581828.9 4199140    0.53443        24         24         0 ANNUAL    LINE            5 UCART1
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582057.27	4199106.81	305364.1166	19	19	0	ANNUAL	AREA	5 UCART2
582076.44	4199106.81	289189.7499	19	19	0	ANNUAL	AREA	5 UCART2
582095.61	4199106.81	271883.94	18.6	18.6	0	ANNUAL	AREA	5 UCART2
582114.78	4199106.81	253219.0777	18	18	0	ANNUAL	AREA	5 UCART2
581961.42	4199120.42	416705.8703	21	21	0	ANNUAL	AREA	5 UCART2
581980.59	4199120.42	356697.6644	20.4	20.4	0	ANNUAL	AREA	5 UCART2
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582076.44	4199120.42	239440.5182	19	19	0	ANNUAL	AREA	5 UCART2
582095.61	4199120.42	225525.3417	18.6	18.6	0	ANNUAL	AREA	5 UCART2
582114.78	4199120.42	211207.3419	18	18	0	ANNUAL	AREA	5 UCART2
581961.42	4199134.03	324272.8122	21	21	0	ANNUAL	AREA	5 UCART2
581980.59	4199134.03	287204.6388	20.4	20.4	0	ANNUAL	AREA	5 UCART2
581999.76	4199134.03	259815.8791	19.8	19.8	0	ANNUAL	AREA	5 UCART2
582018.93	4199134.03	239233.1298	19.2	19.2	0	ANNUAL	AREA	5 UCART2
582038.1	4199134.03	224106.8757	19	19	0	ANNUAL	AREA	5 UCART2
582057.27	4199134.03	211937.0841	19	19	0	ANNUAL	AREA	5 UCART2
582076.44	4199134.03	201111.8209	19	19	0	ANNUAL	AREA	5 UCART2
582095.61	4199134.03	190111.3696	18.6	18.6	0	ANNUAL	AREA	5 UCART2
582114.78	4199134.03	178983.4389	18	18	0	ANNUAL	AREA	5 UCART2
581961.42	4199147.64	254876.9752	21	21	0	ANNUAL	AREA	5 UCART2
581980.59	4199147.64	231694.9105	20.4	20.4	0	ANNUAL	AREA	5 UCART2
581999.76	4199147.64	213836.8406	19.8	19.8	0	ANNUAL	AREA	5 UCART2
582018.93	4199147.64	199508.4617	19.2	19.2	0	ANNUAL	AREA	5 UCART2
582038.1	4199147.64	188487.8638	19	19	0	ANNUAL	AREA	5 UCART2
582057.27	4199147.64	179209.4143	19	19	0	ANNUAL	AREA	5 UCART2
582076.44	4199147.64	170715.5147	19	19	0	ANNUAL	AREA	5 UCART2
582095.61	4199147.64	162076.9392	18.6	18.6	0	ANNUAL	AREA	5 UCART2
582114.78	4199147.64	153349.2864	18	18	0	ANNUAL	AREA	5 UCART2
582091.3	4199172.08	124568.3254	18.1	18.1	0	ANNUAL	AREA	5 UCART3
582117.7	4199172.08	117565.1024	18	18	0	ANNUAL	AREA	5 UCART3
582144.1	4199172.08	110550.8612	18	18	0	ANNUAL	AREA	5 UCART3
582170.5	4199172.08	103608.1863	18	18	0	ANNUAL	AREA	5 UCART3
582091.3	4199200.93	92633.45535	18	18	0	ANNUAL	AREA	5 UCART3
582117.7	4199200.93	88758.80358	18	18	0	ANNUAL	AREA	5 UCART3
582144.1	4199200.93	84632.94228	18	18	0	ANNUAL	AREA	5 UCART3
582170.5	4199200.93	80399.27725	18	18	0	ANNUAL	AREA	5 UCART3
582129.43	4199211.68	78886.4537	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199211.68	76768.72245	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199211.68	74597.01556	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199211.68	72404.53234	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199211.68	70220.06544	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199211.68	68062.77276	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199229.01	67800.58974	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199229.01	66267.56382	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199229.01	64667.41775	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199229.01	63025.13693	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199229.01	61357.057	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199229.01	59696.58408	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199246.34	58659.50836	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199246.34	57553.87125	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199246.34	56372.96024	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199246.34	55139.00307	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199246.34	53873.00217	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199246.34	52598.13169	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199263.67	51087.9744	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199263.67	50290.60419	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199263.67	49420.1635	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199263.67	48493.73221	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199263.67	47527.98377	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199263.67	46537.98283	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199281	44789.34091	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199281	44212.131	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199281	43567.76483	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199281	42869.65833	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199281	42130.3362	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199281	41362.24179	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199298.33	39525.85129	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199298.33	39104.21238	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199298.33	38623.67827	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199298.33	38093.75262	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199298.33	37524.41573	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199298.33	36925.26745	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199315.66	35105.15917	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199315.66	34793.0388	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199315.66	34430.30321	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199315.66	34024.09683	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199315.66	33581.87581	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199315.66	33110.9656	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199332.99	31371.21488	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199332.99	31136.46976	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199332.99	30858.8574	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199332.99	30543.49205	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199332.99	30195.87266	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199332.99	29821.95799	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199350.32	28197.9027	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199350.32	28018.52381	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199350.32	27802.54344	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199350.32	27554.12014	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199350.32	27277.58083	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199350.32	26977.24456	18	18	0	ANNUAL	AREA	5 UCART4
582129.43	4199367.65	25483.41828	18	18	0	ANNUAL	AREA	5 UCART4
582145.76	4199367.65	25344.17496	18	18	0	ANNUAL	AREA	5 UCART4
582162.09	4199367.65	25173.77271	18	18	0	ANNUAL	AREA	5 UCART4
582178.42	4199367.65	24975.32966	18	18	0	ANNUAL	AREA	5 UCART4
582194.75	4199367.65	24752.1839	18	18	0	ANNUAL	AREA	5 UCART4
582211.08	4199367.65	24507.92338	18	18	0	ANNUAL	AREA	5 UCART4
582220.59	4199291.38	38228.97645	18	18	0	ANNUAL	AREA	5 UCART5
582247.01	4199291.38	37109.12943	18	18	0	ANNUAL	AREA	5 UCART5
582220.59	4199320.81	31816.60604	18	18	0	ANNUAL	AREA	5 UCART5
582247.01	4199320.81	31048.88534	18	18	0	ANNUAL	AREA	5 UCART5
582220.59	4199350.24	26805.1611	18	18	0	ANNUAL	AREA	5 UCART5
582247.01	4199350.24	26265.728	18	18	0	ANNUAL	AREA	5 UCART5
582056.81	4198850.27	617349.2675	21.09	21.09	0	ANNUAL	AREA	5
582068.76	4198847.88	550765.7474	21.47	21.47	0	ANNUAL	AREA	5
582088.08	4198858.24	521131.5673	21.59	21.59	0	ANNUAL	AREA	5
582072.55	4198865.81	621447.1908	21.21	21.21	0	ANNUAL	AREA	5
582106.21	4198934.93	705882.1743	20.04	20.04	0	ANNUAL	AREA	5
582117.36	4198932.93	634742.0126	20.1	20.1	0	ANNUAL	AREA	5
582143.45	4198921.18	493602.9311	20.5	20.5	0	ANNUAL	AREA	5
582166.56	4198925.56	424308.5325	20.35	20.35	0	ANNUAL	AREA	5
582116.96	4198962.41	712059.25	19.22	19.22	0	ANNUAL	AREA	5
582172.73	4198955.64	437434.1984	20	20	0	ANNUAL	AREA	5
582182.1	4198975.76	416716.1061	19.68	19.68	0	ANNUAL	AREA	5
582128.12	4198976.75	672916.0803	19.31	19.31	0	ANNUAL	AREA	5
582142.46	4199000.26	609302.1866	18.99	18.99	0	ANNUAL	AREA	5
582155.01	4199019.58	530987.0982	19	19	0	ANNUAL	AREA	5
582206.99	4198982.33	342264.687	19.46	19.46	0	ANNUAL	AREA	5
582205.4	4198966.4	347049.0627	19.99	19.99	0	ANNUAL	AREA	5
582202.81	4198943.09	344289.7674	20	20	0	ANNUAL	AREA	5
582212.57	4198924.77	313145.2739	20.38	20.38	0	ANNUAL	AREA	5
582241.45	4198921.98	262286.2561	20.47	20.47	0	ANNUAL	AREA	5
582255.59	4198940.9	246092.3511	20	20	0	ANNUAL	AREA	5
582254	4198965	249537.0259	20	20	0	ANNUAL	AREA	5
582250.61	4198981.93	251254.5384	19.47	19.47	0	ANNUAL	AREA	5
582182.49	4199026.35	390001.0678	19	19	0	ANNUAL	AREA	5
582198.23	4199028.54	333902.8799	19	19	0	ANNUAL	AREA	5
582224.32	4199026.15	272073.3369	19	19	0	ANNUAL	AREA	5
582245.44	4199029.54	230308.1118	19	19	0	ANNUAL	AREA	5
582264.56	4199028.54	203804.0953	19	19	0	ANNUAL	AREA	5
582281.69	4199026.55	184808.3268	19	19	0	ANNUAL	AREA	5
582279.7	4198984.12	208841.0274	19.72	19.72	0	ANNUAL	AREA	5
582282.88	4198965.6	209390.3595	20	20	0	ANNUAL	AREA	5
582284.48	4198944.09	208769.9777	20	20	0	ANNUAL	AREA	5
582282.28	4198923.37	209474.6475	20.42	20.42	0	ANNUAL	AREA	5

581999.8	4199107	0.9693	19.8	19.8	0	ANNUAL	LINE	5 UCART2
582018.9	4199107	0.95072	19.2	19.2	0	ANNUAL	LINE	5 UCART2
582038.1	4199107	0.9334	19	19	0	ANNUAL	LINE	5 UCART2
582057.3	4199107	0.91717	19	19	0	ANNUAL	LINE	5 UCART2
582076.4	4199107	0.90176	19	19	0	ANNUAL	LINE	5 UCART2
582095.6	4199107	0.88664	18.6	18.6	0	ANNUAL	LINE	5 UCART2
582114.8	4199107	0.87218	18	18	0	ANNUAL	LINE	5 UCART2
581961.4	4199120	0.87561	21	21	0	ANNUAL	LINE	5 UCART2
581980.6	4199120	0.8673	20.4	20.4	0	ANNUAL	LINE	5 UCART2
581999.8	4199120	0.8565	19.8	19.8	0	ANNUAL	LINE	5 UCART2
582018.9	4199120	0.84514	19.2	19.2	0	ANNUAL	LINE	5 UCART2
582038.1	4199120	0.83445	19	19	0	ANNUAL	LINE	5 UCART2
582057.3	4199120	0.82427	19	19	0	ANNUAL	LINE	5 UCART2
582076.4	4199120	0.81435	19	19	0	ANNUAL	LINE	5 UCART2
582095.6	4199120	0.80423	18.6	18.6	0	ANNUAL	LINE	5 UCART2
582114.8	4199120	0.7942	18	18	0	ANNUAL	LINE	5 UCART2
581961.4	4199134	0.77373	21	21	0	ANNUAL	LINE	5 UCART2
581980.6	4199134	0.77046	20.4	20.4	0	ANNUAL	LINE	5 UCART2
581999.8	4199134	0.76449	19.8	19.8	0	ANNUAL	LINE	5 UCART2
582018.9	4199134	0.75769	19.2	19.2	0	ANNUAL	LINE	5 UCART2
582038.1	4199134	0.75122	19	19	0	ANNUAL	LINE	5 UCART2
582057.3	4199134	0.745	19	19	0	ANNUAL	LINE	5 UCART2
582076.4	4199134	0.73881	19	19	0	ANNUAL	LINE	5 UCART2
582095.6	4199134	0.73221	18.6	18.6	0	ANNUAL	LINE	5 UCART2
582114.8	4199134	0.72544	18	18	0	ANNUAL	LINE	5 UCART2
581961.4	4199148	0.69099	21	21	0	ANNUAL	LINE	5 UCART2
581980.6	4199148	0.69105	20.4	20.4	0	ANNUAL	LINE	5 UCART2
581999.8	4199148	0.68832	19.8	19.8	0	ANNUAL	LINE	5 UCART2
582018.9	4199148	0.68452	19.2	19.2	0	ANNUAL	LINE	5 UCART2
582038.1	4199148	0.68079	19	19	0	ANNUAL	LINE	5 UCART2
582057.3	4199148	0.67716	19	19	0	ANNUAL	LINE	5 UCART2
582076.4	4199148	0.67346	19	19	0	ANNUAL	LINE	5 UCART2
582095.6	4199148	0.6693	18.6	18.6	0	ANNUAL	LINE	5 UCART2
582114.8	4199148	0.66484	18	18	0	ANNUAL	LINE	5 UCART2
582091.3	4199172	0.57515	18.1	18.1	0	ANNUAL	LINE	5 UCART3
582117.7	4199172	0.57321	18	18	0	ANNUAL	LINE	5 UCART3
582144.1	4199172	0.57111	18	18	0	ANNUAL	LINE	5 UCART3
582170.5	4199172	0.56871	18	18	0	ANNUAL	LINE	5 UCART3
582091.3	4199201	0.48836	18	18	0	ANNUAL	LINE	5 UCART3
582117.7	4199201	0.48834	18	18	0	ANNUAL	LINE	5 UCART3
582144.1	4199201	0.488	18	18	0	ANNUAL	LINE	5 UCART3
582170.5	4199201	0.48731	18	18	0	ANNUAL	LINE	5 UCART3
582129.4	4199212	0.46173	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199212	0.46169	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199212	0.46151	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199212	0.46119	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199212	0.46071	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199212	0.46006	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199229	0.42351	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199229	0.42371	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199229	0.42377	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199229	0.42369	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199229	0.42346	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199229	0.42306	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199246	0.39006	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199246	0.3904	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199246	0.3906	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199246	0.39066	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199246	0.39057	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199246	0.39033	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199264	0.36057	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199264	0.361	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199264	0.36128	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199264	0.36143	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199264	0.36143	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199264	0.36128	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199281	0.33443	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199281	0.33491	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199281	0.33525	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199281	0.33544	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199281	0.33549	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199281	0.33541	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199298	0.31111	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199298	0.31164	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199298	0.31201	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199298	0.31224	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199298	0.31232	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199298	0.31227	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199316	0.29021	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199316	0.29077	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199316	0.29117	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199316	0.29142	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199316	0.29152	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199316	0.2915	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199333	0.27138	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199333	0.27197	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199333	0.27238	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199333	0.27265	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199333	0.27278	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199333	0.27278	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199350	0.25435	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199350	0.25495	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199350	0.25539	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199350	0.25567	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199350	0.25582	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199350	0.25584	18	18	0	ANNUAL	LINE	5 UCART4
582129.4	4199368	0.23889	18	18	0	ANNUAL	LINE	5 UCART4
582145.8	4199368	0.2395	18	18	0	ANNUAL	LINE	5 UCART4
582162.1	4199368	0.23995	18	18	0	ANNUAL	LINE	5 UCART4
582178.4	4199368	0.24025	18	18	0	ANNUAL	LINE	5 UCART4
582194.8	4199368	0.24042	18	18	0	ANNUAL	LINE	5 UCART4
582211.1	4199368	0.24045	18	18	0	ANNUAL	LINE	5 UCART4
582220.6	4199291	0.32114	18	18	0	ANNUAL	LINE	5 UCART5
582247	4199291	0.3206	18	18	0	ANNUAL	LINE	5 UCART5
582220.6	4199321	0.28566	18	18	0	ANNUAL	LINE	5 UCART5
582247	4199321	0.28524	18	18	0	ANNUAL	LINE	5 UCART5
582220.6	4199350	0.25586	18	18	0	ANNUAL	LINE	5 UCART5
582247	4199350	0.25551	18	18	0	ANNUAL	LINE	5 UCART5
582056.8	4198850	16.81286	21.09	21.09	0	ANNUAL	LINE	5
582068.8	4198848	17.15201	21.47	21.47	0	ANNUAL	LINE	5
582088.1	4198858	11.24567	21.59	21.59	0	ANNUAL	LINE	5
582072.6	4198866	9.89488	21.21	21.21	0	ANNUAL	LINE	5
582106.2	4198935	3.36858	20.04	20.04	0	ANNUAL	LINE	5
582117.4	4198933	3.34173	20.1	20.1	0	ANNUAL	LINE	5
582143.5	4198921	3.56494	20.5	20.5	0	ANNUAL	LINE	5
582166.6	4198926	3.28029	20.35	20.35	0	ANNUAL	LINE	5
582117	4198962	2.57903	19.22	19.22	0	ANNUAL	LINE	5
582172.7	4198956	2.46187	20	20	0	ANNUAL	LINE	5
582182.1	4198976	2.06206	19.68	19.68	0	ANNUAL	LINE	5
582128.1	4198977	2.24198	19.31	19.31	0	ANNUAL	LINE	5
582142.5	4199000	1.81844	18.99	18.99	0	ANNUAL	LINE	5
582155	4199020	1.5454	19	19	0	ANNUAL	LINE	5
582207	4198982	1.9051	19.46	19.46	0	ANNUAL	LINE	5
582205.4	4198966	2.16693	19.99	19.99	0	ANNUAL	LINE	5
582202.8	4198943	2.65505	20	20	0	ANNUAL	LINE	5
582212.6	4198925	3.1481	20.38	20.38	0	ANNUAL	LINE	5
582241.5	4198922	3.20022	20.47	20.47	0	ANNUAL	LINE	5
582255.6	4198941	2.63324	20	20	0	ANNUAL	LINE	5
582254	4198965	2.12399	20	20	0	ANNUAL	LINE	5
582250.6	4198982	1.85256	19.47	19.47	0	ANNUAL	LINE	5
582182.5	4199026	1.41973	19	19	0	ANNUAL	LINE	5
582198.2	4199029	1.37489	19	19	0	ANNUAL	LINE	5
582224.3	4199026	1.36584	19	19	0	ANNUAL	LINE	5
582245.4	4199030	1.31526	19	19	0	ANNUAL	LINE	5
582264.6	4199029	1.31004	19	19	0	ANNUAL	LINE	5
582281.7	4199027	1.31746	19	19	0	ANNUAL	LINE	5
582279.7	4198984	1.80252	19.72	19.72	0	ANNUAL	LINE	5
582282.9	4198966	2.099	20	20	0	ANNUAL	LINE	5
582284.5	4198944	2.55247	20	20	0	ANNUAL	LINE	5
582282.3	4198923	3.16496	20.42	20.42	0	ANNUAL	LINE	5

582229.9	4198901.66	269362.1699	21	21	0	ANNUAL	AREA	5
582251.21	4198902.86	240606.973	21	21	0	ANNUAL	AREA	5
582227.31	4198884.53	260629.2797	21	21	0	ANNUAL	AREA	5
582230.9	4198868.6	243275.1275	21	21	0	ANNUAL	AREA	5
582246.43	4198870.99	227455.3336	21	21	0	ANNUAL	AREA	5
582228.31	4198843.3	224126.0607	21.09	21.09	0	ANNUAL	AREA	5
582246.23	4198845.69	209269.8294	21.01	21.01	0	ANNUAL	AREA	5
582285.07	4198902.66	201945.9798	21	21	0	ANNUAL	AREA	5
582282.09	4198866.41	190512.2528	21	21	0	ANNUAL	AREA	5
582281.49	4198845.09	180109.687	21.03	21.03	0	ANNUAL	AREA	5
582321.32	4198901.66	169231.5234	21	21	0	ANNUAL	AREA	5
582333.87	4198901.06	159590.409	21	21	0	ANNUAL	AREA	5
582344.43	4198888.52	150358.8621	21	21	0	ANNUAL	AREA	5
582324.71	4198924.57	168756.918	20.38	20.38	0	ANNUAL	AREA	5
582324.51	4198944.88	168735.3257	20	20	0	ANNUAL	AREA	5
582324.91	4198964.4	166305.1459	20	20	0	ANNUAL	AREA	5
582380.08	4198923.17	130739.1378	20.93	20.93	0	ANNUAL	AREA	5
582377.29	4198942.89	131400.8654	20.61	20.61	0	ANNUAL	AREA	5
582377.29	4198961.42	129226.0805	20.12	20.12	0	ANNUAL	AREA	5
582371.72	4199002.45	123906.9612	20	20	0	ANNUAL	AREA	5
582329.49	4198986.12	157654.8394	20	20	0	ANNUAL	AREA	5
582322.52	4199007.83	156113.9457	19.98	19.98	0	ANNUAL	AREA	5
582321.92	4199029.74	146718.2495	19.82	19.82	0	ANNUAL	AREA	5
582368.73	4199020.97	119976.9633	20	20	0	ANNUAL	AREA	5
582371.72	4199043.28	110602.3504	20	20	0	ANNUAL	AREA	5
582324.71	4199048.46	134804.1165	19.28	19.28	0	ANNUAL	AREA	5
582372.12	4199060.61	103838.006	19.94	19.94	0	ANNUAL	AREA	5
582285.67	4199062.4	154530.4319	19	19	0	ANNUAL	AREA	5
582287.07	4199082.32	137700.2586	19	19	0	ANNUAL	AREA	5
582322.72	4199074.15	121617.7031	19	19	0	ANNUAL	AREA	5
582323.32	4199092.48	110592.3514	19	19	0	ANNUAL	AREA	5
582368.73	4199081.32	96857.55929	19.58	19.58	0	ANNUAL	AREA	5
582237.27	4199070.77	193884.6843	19	19	0	ANNUAL	AREA	5
582207.19	4199070.57	236312.0193	19	19	0	ANNUAL	AREA	5
582195.44	4199088.69	215470.109	18.72	18.72	0	ANNUAL	AREA	5
582214.56	4199115.38	152287.222	19	19	0	ANNUAL	AREA	5
582224.32	4199129.93	128784.2317	18.86	18.86	0	ANNUAL	AREA	5
582237.07	4199152.23	102554.0556	18.82	18.82	0	ANNUAL	AREA	5
582249.62	4199166.77	88223.88475	18.68	18.68	0	ANNUAL	AREA	5
582250.61	4199086.9	160794.3322	19	19	0	ANNUAL	AREA	5
582255.59	4199115.19	127989.0286	19	19	0	ANNUAL	AREA	5
582286.87	4199130.52	101828.5999	19	19	0	ANNUAL	AREA	5
582287.66	4199111	115328.5804	19	19	0	ANNUAL	AREA	5
582270.93	4199137.1	102966.1334	19	19	0	ANNUAL	AREA	5
582285.67	4199170.96	77807.00646	19	19	0	ANNUAL	AREA	5
582285.87	4199189.48	68401.12655	19	19	0	ANNUAL	AREA	5
582281.89	4199210.2	59954.65615	18.95	18.95	0	ANNUAL	AREA	5
582286.27	4199232.11	51395.23766	18.78	18.78	0	ANNUAL	AREA	5
582323.52	4199116.78	96826.13951	19	19	0	ANNUAL	AREA	5
582322.92	4199133.91	87891.03959	19	19	0	ANNUAL	AREA	5
582321.72	4199157.81	76408.48919	19	19	0	ANNUAL	AREA	5
582322.12	4199178.13	67340.56968	19	19	0	ANNUAL	AREA	5
582322.32	4199196.65	60031.71872	19	19	0	ANNUAL	AREA	5
582325.51	4199220.95	51318.33076	19	19	0	ANNUAL	AREA	5
582290.65	4199248.24	46008.51916	18.9	18.9	0	ANNUAL	AREA	5
582331.68	4199241.07	44947.89656	19	19	0	ANNUAL	AREA	5
582306.98	4199270.15	39230.62565	18.92	18.92	0	ANNUAL	AREA	5
582317.94	4199287.68	34872.85895	18.86	18.86	0	ANNUAL	AREA	5
582334.47	4199298.04	32229.94417	19	19	0	ANNUAL	AREA	5
582352.4	4199263.38	38210.84446	19	19	0	ANNUAL	AREA	5
582371.32	4199262.38	37342.39055	19	19	0	ANNUAL	AREA	5
582371.32	4199226.13	45598.81746	19	19	0	ANNUAL	AREA	5
582372.91	4199298.83	30621.26941	19	19	0	ANNUAL	AREA	5
582370.72	4199204.02	51604.50442	19	19	0	ANNUAL	AREA	5
582365.54	4199184.9	58058.83013	19	19	0	ANNUAL	AREA	5
582369.13	4199164.98	64135.66404	19	19	0	ANNUAL	AREA	5
582372.12	4199143.27	71343.51703	19	19	0	ANNUAL	AREA	5
582369.73	4199122.95	79559.44431	19	19	0	ANNUAL	AREA	5
582369.93	4199103.43	87387.75722	19.23	19.23	0	ANNUAL	AREA	5
582403.59	4199282.9	31970.08318	19	19	0	ANNUAL	AREA	5
582403.19	4199258.8	36227.48034	19	19	0	ANNUAL	AREA	5
582406.18	4199232.7	41238.43107	19	19	0	ANNUAL	AREA	5
582409.96	4199210.59	45837.02829	19	19	0	ANNUAL	AREA	5
582408.57	4199190.88	50778.06821	19	19	0	ANNUAL	AREA	5
582407.57	4199166.57	57387.71163	19	19	0	ANNUAL	AREA	5
582406.38	4199143.07	64385.21266	19	19	0	ANNUAL	AREA	5
582407.97	4199122.75	70236.80065	19	19	0	ANNUAL	AREA	5
582407.37	4199100.05	77576.23723	19.53	19.53	0	ANNUAL	AREA	5
582406.18	4199075.75	85712.55621	20	20	0	ANNUAL	AREA	5
582409.36	4199048.86	92923.5526	20	20	0	ANNUAL	AREA	5
582408.57	4199030.33	98302.23213	20	20	0	ANNUAL	AREA	5
582407.17	4199008.22	104503.6652	20	20	0	ANNUAL	AREA	5
582408.17	4198983.33	109258.3567	20	20	0	ANNUAL	AREA	5
582418.53	4198950.66	109190.8797	20.59	20.59	0	ANNUAL	AREA	5
582434.86	4198946.68	102541.6484	20.9	20.9	0	ANNUAL	AREA	5
582456.17	4198951.86	93811.56367	21	21	0	ANNUAL	AREA	5
582427.69	4198910.23	107361.5674	21	21	0	ANNUAL	AREA	5
582444.02	4198909.43	100750.7194	21	21	0	ANNUAL	AREA	5
582469.91	4198913.02	91318.09686	21	21	0	ANNUAL	AREA	5
582488.24	4198930.94	84637.22645	21	21	0	ANNUAL	AREA	5
582452.99	4199075.13	72577.53432	20	20	0	ANNUAL	AREA	5
582453.25	4199054.4	77349.01366	20	20	0	ANNUAL	AREA	5
582455.38	4199029.71	81973.09344	20	20	0	ANNUAL	AREA	5
582453.98	4199007.6	86644.4263	20	20	0	ANNUAL	AREA	5
582454.98	4198982.7	90440.54137	20.45	20.45	0	ANNUAL	AREA	5
582453.7	4199121.45	61384.49607	19.88	19.88	0	ANNUAL	AREA	5
582453.1	4199098.75	66962.65355	20	20	0	ANNUAL	AREA	5
582454.03	4199166.54	50932.93886	19.34	19.34	0	ANNUAL	AREA	5
582453.43	4199143.84	56133.63908	19.37	19.37	0	ANNUAL	AREA	5
582450.46	4199213.91	41483.42234	19	19	0	ANNUAL	AREA	5
582455.05	4199187.31	46378.03258	19.24	19.24	0	ANNUAL	AREA	5
582452.4	4199258.35	33541.79853	19	19	0	ANNUAL	AREA	5
582451.81	4199235.64	37377.45518	19	19	0	ANNUAL	AREA	5
582411.2	4199341.07	23719.49572	19	19	0	ANNUAL	AREA	5
582404.77	4199306.04	28381.0498	19	19	0	ANNUAL	AREA	5
582429.05	4199342.04	23190.076	19	19	0	ANNUAL	AREA	5
582449.21	4199339.45	22992.64893	19	19	0	ANNUAL	AREA	5
582452.43	4199303.76	27061.08305	19	19	0	ANNUAL	AREA	5
582334.67	4199335.88	26258.17151	18.79	18.79	0	ANNUAL	AREA	5
582355.11	4199342.37	24902.64811	19	19	0	ANNUAL	AREA	5
582371.01	4199339.45	24884.21339	19	19	0	ANNUAL	AREA	5
582450.48	4199281.7	30110.06326	19	19	0	ANNUAL	AREA	5
582489.41	4199341.72	21823.98029	19	19	0	ANNUAL	AREA	5
582492.98	4199306.03	25452.896	19.43	19.43	0	ANNUAL	AREA	5
582489.41	4199286.57	27884.87383	19.52	19.52	0	ANNUAL	AREA	5
582490.38	4199264.84	30668.63473	19.56	19.56	0	ANNUAL	AREA	5
582486.49	4199244.4	33781.27407	19.43	19.43	0	ANNUAL	AREA	5
582486.17	4199222.66	37176.21139	19.42	19.42	0	ANNUAL	AREA	5
582491.03	4199205.15	39684.28056	19.59	19.59	0	ANNUAL	AREA	5
582490.71	4199181.47	43820.39133	19.92	19.92	0	ANNUAL	AREA	5
582488.44	4199162	47631.22008	20	20	0	ANNUAL	AREA	5
582492.01	4199140.92	51146.28068	20	20	0	ANNUAL	AREA	5
582489.09	4199121.45	55327.52308	20	20	0	ANNUAL	AREA	5
582489.09	4199100.37	59451.72288	20	20	0	ANNUAL	AREA	5
582492.01	4199084.8	61907.78403	20	20	0	ANNUAL	AREA	5
582489.41	4199058.52	67391.98833	20	20	0	ANNUAL	AREA	5
582490.71	4199041.33	70175.01203	20	20	0	ANNUAL	AREA	5
582489.73	4199018.94	74194.24191	20.13	20.13	0	ANNUAL	AREA	5
582491.68	4198999.16	76668.09504	20.54	20.54	0	ANNUAL	AREA	5
582489.73	4198976.77	80139.82149	20.83	20.83	0	ANNUAL	AREA	5
582492.33	4198956.98	81459.69743	21	21	0	ANNUAL	AREA	5
582136.17	4199615.26	8838.78155	18	18	0	ANNUAL	AREA	5
582136.17	4199584.27	9820.04209	18	18	0	ANNUAL	AREA	5
582156.91	4199570.36	10313.39748	18	18	0	ANNUAL	AREA	5
582168.13	4199576.71	10079.46091	18	18	0	ANNUAL	AREA	5
582188.14	4199575.73	10092.62899	18	18	0	ANNUAL	AREA	5
582205.96	4199577.93	9987.31065	18	18	0	ANNUAL	AREA	5
582215.72	4199576.22	10025.85158	18	18	0	ANNUAL	AREA	5
582229.63	4199577.44	9951.31963	18	18	0	ANNUAL	AREA	5
582231.34	4199554.5	10767.89356	18	18	0	ANNUAL	AREA	5

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582227.3	4198885	5.14461	21	21	0	ANNUAL	LINE	5
582230.9	4198869	6.71864	21	21	0	ANNUAL	LINE	5
582246.4	4198871	6.48378	21	21	0	ANNUAL	LINE	5
582228.3	4198843	12.12017	21.09	21.09	0	ANNUAL	LINE	5
582246.2	4198846	11.63954	21.01	21.01	0	ANNUAL	LINE	5
582285.1	4198903	4.09	21	21	0	ANNUAL	LINE	5
582282.1	4198866	7.50107	21	21	0	ANNUAL	LINE	5
582281.5	4198845	13.1704	21.03	21.03	0	ANNUAL	LINE	5
582321.3	4198902	4.34173	21	21	0	ANNUAL	LINE	5
582333.9	4198901	4.47456	21	21	0	ANNUAL	LINE	5
582344.4	4198889	5.66894	21	21	0	ANNUAL	LINE	5
582324.7	4198925	3.21175	20.38	20.38	0	ANNUAL	LINE	5
582324.5	4198945	2.5654	20	20	0	ANNUAL	LINE	5
582324.9	4198964	2.12674	20	20	0	ANNUAL	LINE	5
582380.1	4198923	3.49208	20.93	20.93	0	ANNUAL	LINE	5
582377.3	4198943	2.71683	20.61	20.61	0	ANNUAL	LINE	5
582377.3	4198961	2.2242	20.12	20.12	0	ANNUAL	LINE	5
582371.7	4199002	1.54059	20	20	0	ANNUAL	LINE	5
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582322.5	4199008	1.48962	19.98	19.98	0	ANNUAL	LINE	5
582321.9	4199030	1.27204	19.82	19.82	0	ANNUAL	LINE	5
582368.7	4199021	1.33663	20	20	0	ANNUAL	LINE	5
582371.7	4199043	1.13878	20	20	0	ANNUAL	LINE	5
582324.7	4199048	1.11862	19.28	19.28	0	ANNUAL	LINE	5
582372.1	4199061	1.01389	19.94	19.94	0	ANNUAL	LINE	5
582285.7	4199062	1.03874	19	19	0	ANNUAL	LINE	5
582287.1	4199082	0.91758	19	19	0	ANNUAL	LINE	5
582322.7	4199074	0.94975	19	19	0	ANNUAL	LINE	5
582323.3	4199092	0.84959	19	19	0	ANNUAL	LINE	5
582368.7	4199081	0.8905	19.58	19.58	0	ANNUAL	LINE	5
582237.3	4199071	1.01073	19	19	0	ANNUAL	LINE	5
582207.2	4199071	1.0324	19	19	0	ANNUAL	LINE	5
582195.4	4199089	0.92732	18.72	18.72	0	ANNUAL	LINE	5
582214.6	4199115	0.77913	19	19	0	ANNUAL	LINE	5
582224.3	4199130	0.71231	18.86	18.86	0	ANNUAL	LINE	5
582237.1	4199152	0.62542	18.82	18.82	0	ANNUAL	LINE	5
582249.6	4199167	0.57596	18.68	18.68	0	ANNUAL	LINE	5
582250.6	4199087	0.90812	19	19	0	ANNUAL	LINE	5
582255.6	4199115	0.76595	19	19	0	ANNUAL	LINE	5
582286.9	4199131	0.69333	19	19	0	ANNUAL	LINE	5
582287.7	4199111	0.7742	19	19	0	ANNUAL	LINE	5
582270.9	4199137	0.67244	19	19	0	ANNUAL	LINE	5
582285.7	4199171	0.55792	19	19	0	ANNUAL	LINE	5
582285.9	4199189	0.50754	19	19	0	ANNUAL	LINE	5
582281.9	4199210	0.45872	18.95	18.95	0	ANNUAL	LINE	5
582286.3	4199232	0.41315	18.78	18.78	0	ANNUAL	LINE	5
582323.5	4199117	0.73776	19	19	0	ANNUAL	LINE	5
582322.9	4199134	0.67071	19	19	0	ANNUAL	LINE	5
582321.7	4199158	0.5902	19	19	0	ANNUAL	LINE	5
582322.1	4199178	0.53137	19	19	0	ANNUAL	LINE	5
582322.3	4199197	0.48452	19	19	0	ANNUAL	LINE	5
582325.5	4199221	0.43092	19	19	0	ANNUAL	LINE	5
582290.7	4199248	0.38368	18.9	18.9	0	ANNUAL	LINE	5
582331.7	4199241	0.39228	19	19	0	ANNUAL	LINE	5
582307	4199270	0.34758	18.92	18.92	0	ANNUAL	LINE	5
582317.9	4199288	0.32226	18.86	18.86	0	ANNUAL	LINE	5
582334.5	4199298	0.30783	19	19	0	ANNUAL	LINE	5
582352.4	4199263	0.35352	19	19	0	ANNUAL	LINE	5
582371.3	4199262	0.35275	19	19	0	ANNUAL	LINE	5
582371.3	4199226	0.41394	19	19	0	ANNUAL	LINE	5
582372.9	4199299	0.30346	19	19	0	ANNUAL	LINE	5
582370.7	4199204	0.459	19	19	0	ANNUAL	LINE	5
582365.5	4199185	0.50476	19	19	0	ANNUAL	LINE	5
582369.1	4199165	0.55705	19	19	0	ANNUAL	LINE	5
582372.1	4199143	0.62316	19	19	0	ANNUAL	LINE	5
582369.7	4199123	0.69716	19	19	0	ANNUAL	LINE	5
582369.9	4199103	0.77934	19.23	19.23	0	ANNUAL	LINE	5
582403.6	4199283	0.31985	19	19	0	ANNUAL	LINE	5
582403.2	4199259	0.35359	19	19	0	ANNUAL	LINE	5
582406.2	4199233	0.39559	19	19	0	ANNUAL	LINE	5
582410	4199211	0.43662	19	19	0	ANNUAL	LINE	5
582408.6	4199191	0.47967	19	19	0	ANNUAL	LINE	5
582407.6	4199167	0.5412	19	19	0	ANNUAL	LINE	5
582406.4	4199143	0.61181	19	19	0	ANNUAL	LINE	5
582408	4199123	0.68262	19	19	0	ANNUAL	LINE	5
582407.4	4199100	0.77808	19.53	19.53	0	ANNUAL	LINE	5
582406.2	4199076	0.90325	20	20	0	ANNUAL	LINE	5
582409.4	4199049	1.07592	20	20	0	ANNUAL	LINE	5
582408.6	4199030	1.22816	20	20	0	ANNUAL	LINE	5
582407.2	4199008	1.4578	20	20	0	ANNUAL	LINE	5
582408.2	4198983	1.80725	20	20	0	ANNUAL	LINE	5
582418.5	4198951	2.54329	20.59	20.59	0	ANNUAL	LINE	5
582434.9	4198947	2.68454	20.9	20.9	0	ANNUAL	LINE	5
582456.2	4198952	2.51486	21	21	0	ANNUAL	LINE	5
582427.7	4198910	4.62474	21	21	0	ANNUAL	LINE	5
582444	4198909	4.8157	21	21	0	ANNUAL	LINE	5
582469.9	4198913	4.58055	21	21	0	ANNUAL	LINE	5
582488.2	4198931	3.30744	21	21	0	ANNUAL	LINE	5
582453	4199075	0.87583	20	20	0	ANNUAL	LINE	5
582453.3	4199054	1.0035	20	20	0	ANNUAL	LINE	5
582455.4	4199030	1.19586	20	20	0	ANNUAL	LINE	5
582454	4199008	1.42825	20	20	0	ANNUAL	LINE	5
582455	4198983	1.79045	20.45	20.45	0	ANNUAL	LINE	5
582453.7	4199121	0.66541	19.88	19.88	0	ANNUAL	LINE	5
582453.1	4199099	0.75803	20	20	0	ANNUAL	LINE	5
582454	4199167	0.52473	19.34	19.34	0	ANNUAL	LINE	5
582453.4	4199144	0.58962	19.37	19.37	0	ANNUAL	LINE	5
582450.5	4199214	0.4198	19	19	0	ANNUAL	LINE	5
582455.1	4199187	0.47375	19.24	19.24	0	ANNUAL	LINE	5
582452.4	4199258	0.34551	19	19	0	ANNUAL	LINE	5
582451.8	4199236	0.38079	19	19	0	ANNUAL	LINE	5
582411.2	4199341	0.25504	19	19	0	ANNUAL	LINE	5
582404.8	4199306	0.29162	19	19	0	ANNUAL	LINE	5
582429.1	4199342	0.25239	19	19	0	ANNUAL	LINE	5
582449.2	4199339	0.25258	19	19	0	ANNUAL	LINE	5
582452.4	4199304	0.28802	19	19	0	ANNUAL	LINE	5
582334.7	4199336	0.26597	18.79	18.79	0	ANNUAL	LINE	5
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582371	4199339	0.26002	19	19	0	ANNUAL	LINE	5
582450.5	4199282	0.31437	19	19	0	ANNUAL	LINE	5
582489.4	4199342	0.24564	19	19	0	ANNUAL	LINE	5
582493	4199306	0.27933	19.43	19.43	0	ANNUAL	LINE	5
582489.4	4199287	0.30163	19.52	19.52	0	ANNUAL	LINE	5
582490.4	4199265	0.32867	19.56	19.56	0	ANNUAL	LINE	5
582486.5	4199244	0.35859	19.43	19.43	0	ANNUAL	LINE	5
582486.2	4199223	0.39385	19.42	19.42	0	ANNUAL	LINE	5
582491	4199205	0.42429	19.59	19.59	0	ANNUAL	LINE	5
582490.7	4199181	0.47378	19.92	19.92	0	ANNUAL	LINE	5
582488.4	4199162	0.52184	20	20	0	ANNUAL	LINE	5
582492	4199141	0.57886	20	20	0	ANNUAL	LINE	5
582489.1	4199121	0.64409	20	20	0	ANNUAL	LINE	5
582489.1	4199100	0.72533	20	20	0	ANNUAL	LINE	5
582492	4199085	0.79313	20	20	0	ANNUAL	LINE	5
582489.4	4199059	0.94065	20	20	0	ANNUAL	LINE	5
582490.7	4199041	1.05798	20	20	0	ANNUAL	LINE	5
582489.7	4199019	1.25502	20.13	20.13	0	ANNUAL	LINE	5
582491.7	4198999	1.48017	20.54	20.54	0	ANNUAL	LINE	5
582489.7	4198977	1.84123	20.83	20.83	0	ANNUAL	LINE	5
582492.3	4198957	2.29278	21	21	0	ANNUAL	LINE	5
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582136.2	4199584	0.12466	18	18	0	ANNUAL	LINE	5
582156.9	4199570	0.12981	18	18	0	ANNUAL	LINE	5
582168.1	4199577	0.12795	18	18	0	ANNUAL	LINE	5
582188.1	4199576	0.12866	18	18	0	ANNUAL	LINE	5
582206	4199578	0.12818	18	18	0	ANNUAL	LINE	5
582215.7	4199576	0.12884	18	18	0	ANNUAL	LINE	5
582229.6	4199577	0.12854	18	18	0	ANNUAL	LINE	5
582231.3	4199555	0.13644	18	18	0	ANNUAL	LINE	5

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582230.36	4199610.14	8933.01231	18	18	0	ANNUAL	AREA	5
582229.87	4199626.97	8470.49285	18	18	0	ANNUAL	AREA	5
582212.55	4199621.61	8639.11992	18	18	0	ANNUAL	AREA	5
582192.78	4199617.46	8774.87363	18	18	0	ANNUAL	AREA	5
582176.92	4199621.61	8666.91255	18	18	0	ANNUAL	AREA	5
582154.96	4199622.58	8639.58342	18	18	0	ANNUAL	AREA	5
582146.9	4199657.72	7725.31999	18	18	0	ANNUAL	AREA	5
582148.61	4199672.36	7389.20183	18	18	0	ANNUAL	AREA	5
582146.17	4199685.3	7106.617	18	18	0	ANNUAL	AREA	5
582171.55	4199687.01	7088.52314	17.97	17.97	0	ANNUAL	AREA	5
582192.29	4199686.03	7113.91401	18	18	0	ANNUAL	AREA	5
582212.3	4199686.52	7097.69417	17.7	17.7	0	ANNUAL	AREA	5
582228.9	4199682.12	7175.08282	17.27	17.27	0	ANNUAL	AREA	5
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582185.7	4199659.92	7687.38606	18	18	0	ANNUAL	AREA	5
582206.45	4199662.6	7619.11212	17.98	17.98	0	ANNUAL	AREA	5
582223.53	4199664.8	7556.18893	17.81	17.81	0	ANNUAL	AREA	5
582292.71	4199684.74	7046.1289	17.97	17.97	0	ANNUAL	AREA	5
582292.71	4199703.99	6679.35762	17.39	17.39	0	ANNUAL	AREA	5
582290.69	4199720.54	6389.79792	17	17	0	ANNUAL	AREA	5
582292.38	4199747.9	5949.21417	17	17	0	ANNUAL	AREA	5
582320.41	4199748.91	5900.91538	17	17	0	ANNUAL	AREA	5
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582326.15	4199694.2	6801.84447	18	18	0	ANNUAL	AREA	5
582326.15	4199667.18	7327.5599	18	18	0	ANNUAL	AREA	5
582300.82	4199658.73	7567.27868	18	18	0	ANNUAL	AREA	5
582364.32	4199660.76	7355.38711	18	18	0	ANNUAL	AREA	5
582391	4199651.3	7468.93393	18	18	0	ANNUAL	AREA	5
582389.99	4199672.24	7051.38227	18	18	0	ANNUAL	AREA	5
582385.26	4199698.59	6584.85438	18	18	0	ANNUAL	AREA	5
582402.82	4199699.26	6527.59239	18	18	0	ANNUAL	AREA	5
582401.13	4199716.49	6248.97425	17.99	17.99	0	ANNUAL	AREA	5
582400.46	4199737.43	5929.95592	17.69	17.69	0	ANNUAL	AREA	5
582399.78	4199751.28	5733.68993	17.62	17.62	0	ANNUAL	AREA	5
582359.93	4199750.94	5810.44044	17.03	17.03	0	ANNUAL	AREA	5
582351.82	4199730	6141.21409	17.54	17.54	0	ANNUAL	AREA	5
582352.16	4199706.02	6536.05566	18	18	0	ANNUAL	AREA	5
582016.89	4199439.91	17264.21766	18	18	0	ANNUAL	AREA	5
581990.78	4199433.08	17588.32599	18	18	0	ANNUAL	AREA	5
581965.89	4199433.32	17246.72079	18	18	0	ANNUAL	AREA	5
581942.7	4199433.32	16898.64052	18.3	18.3	0	ANNUAL	AREA	5
581916.1	4199430.15	16694.11974	18.84	18.84	0	ANNUAL	AREA	5
581969.55	4199483.11	13737.59176	18	18	0	ANNUAL	AREA	5
582021.28	4199469.44	15072.00358	18	18	0	ANNUAL	AREA	5
582014.45	4199492.38	13580.1753	18	18	0	ANNUAL	AREA	5
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581865.1	4199431.86	15494.92148	19.57	19.57	0	ANNUAL	AREA	5
581843.87	4199431.13	15089.11011	20.99	20.99	0	ANNUAL	AREA	5
581913.91	4199480.91	13186.65869	18	18	0	ANNUAL	AREA	5
581889.26	4199479.93	12896.89384	18.42	18.42	0	ANNUAL	AREA	5
581865.1	4199478.47	12626.60698	19.49	19.49	0	ANNUAL	AREA	5
581840.45	4199480.42	12161.22823	21.17	24	0	ANNUAL	AREA	5
581818.74	4199481.4	11783.059	23.17	24	0	ANNUAL	AREA	5
581788.48	4199487.99	11008.70125	24.05	24.05	0	ANNUAL	AREA	5
581822.15	4199434.54	14388.21201	23.16	23.16	0	ANNUAL	AREA	5
581794.09	4199436.01	13645.26691	24.65	24.65	0	ANNUAL	AREA	5
581768.95	4199434.06	13140.49498	24.21	24.21	0	ANNUAL	AREA	5
581747.72	4199434.79	12576.06202	23.3	23.3	0	ANNUAL	AREA	5
581723.32	4199433.08	12052.73128	22.99	22.99	0	ANNUAL	AREA	5
581749.12	4199412.28	13779.83775	23.95	23.95	0	ANNUAL	AREA	5
581763.54	4199476.24	11068.87856	23.65	23.65	0	ANNUAL	AREA	5
581723.3	4199488.56	9917.09644	22	22	0	ANNUAL	AREA	5
581721.79	4199518.59	8955.77717	21.19	21.19	0	ANNUAL	AREA	5
581727.8	4199548.02	8215.38628	20	20	0	ANNUAL	AREA	5
581762.94	4199547.12	8617.82936	20.19	20.19	0	ANNUAL	AREA	5
581791.16	4199547.42	8910.24636	20.37	20.37	0	ANNUAL	AREA	5
581813.99	4199546.51	9169.84431	19.65	19.65	0	ANNUAL	AREA	5
581840.41	4199545.31	9477.19645	19.08	19.08	0	ANNUAL	AREA	5
581866.24	4199549.82	9571.39189	18.25	18.25	0	ANNUAL	AREA	5
581886.96	4199543.51	9996.94251	18	18	0	ANNUAL	AREA	5
581909.48	4199543.81	10202.87026	18	18	0	ANNUAL	AREA	5
581938.61	4199545.91	10382.58355	18	18	0	ANNUAL	AREA	5
581969.84	4199516.18	11954.95367	18	18	0	ANNUAL	AREA	5
581965.94	4199544.71	10652.63284	18	18	0	ANNUAL	AREA	5
582015.19	4199536.6	11335.52031	18	18	0	ANNUAL	AREA	5
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582020.89	4199558.83	10440.87175	18	18	0	ANNUAL	AREA	5
582040.41	4199527	11910.8065	18	18	0	ANNUAL	AREA	5
582013.09	4199584.95	9452.00188	18	18	0	ANNUAL	AREA	5
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581966.24	4199590.36	9013.15045	18	18	0	ANNUAL	AREA	5
581940.11	4199595.76	8681.28436	18	18	0	ANNUAL	AREA	5
581915.19	4199590.96	8655.22361	18	18	0	ANNUAL	AREA	5
581892.97	4199589.76	8528.97067	18	18	0	ANNUAL	AREA	5
581868.04	4199591.86	8283.97954	18.19	18.19	0	ANNUAL	AREA	5
582013.39	4199665.13	7238.01988	18	18	0	ANNUAL	AREA	5
581987.56	4199660.33	7244.93343	18	18	0	ANNUAL	AREA	5
581964.14	4199661.23	7123.32041	18	18	0	ANNUAL	AREA	5
581940.11	4199663.93	6954.40421	18	18	0	ANNUAL	AREA	5
581916.09	4199663.93	6839.23012	18	18	0	ANNUAL	AREA	5
581893.27	4199663.33	6737.82762	18	18	0	ANNUAL	AREA	5
581865.34	4199663.33	6594.61837	18	18	0	ANNUAL	AREA	5
581841.31	4199662.73	6481.38904	18.08	18.08	0	ANNUAL	AREA	5
581810.08	4199659.73	6379.05385	19	19	0	ANNUAL	AREA	5
581792.67	4199663.33	6221.4275	19	19	0	ANNUAL	AREA	5
581761.13	4199658.83	6131.40456	19	19	0	ANNUAL	AREA	5
581742.81	4199599.67	7141.82803	19.32	19.32	0	ANNUAL	AREA	5
581767.14	4199590.96	7524.36704	19.17	19.17	0	ANNUAL	AREA	5
581792.36	4199596.37	7594.22275	19	19	0	ANNUAL	AREA	5
581812.79	4199603.27	7583.57276	19	19	0	ANNUAL	AREA	5
581841.01	4199593.66	8037.6553	19	19	0	ANNUAL	AREA	5
581830.5	4199633.3	7017.51004	18.44	18.44	0	ANNUAL	AREA	5
581645.38	4199376.64	12012.04644	23	23	0	ANNUAL	AREA	5
581670.14	4199379.19	12797.79701	23.05	23.05	0	ANNUAL	AREA	5
581678.82	4199412.89	11709.17357	23	23	0	ANNUAL	AREA	5
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581651.51	4199433.31	10282.50551	22.43	22.43	0	ANNUAL	AREA	5
581623.94	4199436.63	9535.40063	22.21	22.21	0	ANNUAL	AREA	5
581619.35	4199385.32	10852.48059	23	23	0	ANNUAL	AREA	5
581673.46	4199486.66	9152.08437	22	22	0	ANNUAL	AREA	5
581637.98	4199482.57	8654.5475	22	22	0	ANNUAL	AREA	5
581600.71	4199484.11	7981.57471	21.97	21.97	0	ANNUAL	AREA	5
581594.84	4199516.78	7267.77693	21.45	21.45	0	ANNUAL	AREA	5
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581605.56	4199567.07	6541.65433	20.97	20.97	0	ANNUAL	AREA	5
581612.71	4199589.27	6257.38752	20.23	20.23	0	ANNUAL	AREA	5
581674.74	4199518.06	8347.6347	21.85	21.85	0	ANNUAL	AREA	5
581683.42	4199546.64	7772.10343	20.99	20.99	0	ANNUAL	AREA	5
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581623.43	4199611.48	6010.56208	19.82	19.82	0	ANNUAL	AREA	5
581634.41	4199634.97	5750.51031	19.71	19.71	0	ANNUAL	AREA	5
581656.1	4199632.67	5932.65986	19.94	19.94	0	ANNUAL	AREA	5
581691.84	4199595.4	6831.45335	20.06	20.06	0	ANNUAL	AREA	5
581700.78	4199620.42	6437.62316	19.81	19.81	0	ANNUAL	AREA	5
581648.96	4199671.21	5344.70119	19.25	19.25	0	ANNUAL	AREA	5
581684.95	4199672.49	5520.02129	19.45	19.45	0	ANNUAL	AREA	5
581707.41	4199672.23	5638.36819	19.25	19.25	0	ANNUAL	AREA	5
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581661.24	4199718.1	4825.04659	17.99	17.99	0	ANNUAL	AREA	5
581685.97	4199710.73	5019.65	18.79	18.79	0	ANNUAL	AREA	5
581712.44	4199713.76	5092.51054	19	19	0	ANNUAL	AREA	5
581728.5	4199744.79	4770.24734	18.04	18.04	0	ANNUAL	AREA	5
581731.75	4199768.66	4513.83837	18	18	0	ANNUAL	AREA	5
581733.7	4199798.82	4211.66551	18	18	0	ANNUAL	AREA	5
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582229.9	4199627	0.11368	18	18	0	ANNUAL	LINE	5
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582146.2	4199685	0.09799	18	18	0	ANNUAL	LINE	5
582171.6	4199687	0.09812	17.97	17.97	0	ANNUAL	LINE	5
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582212.3	4199687	0.09881	17.7	17.7	0	ANNUAL	LINE	5
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582223.5	4199665	0.10394	17.81	17.81	0	ANNUAL	LINE	5
582292.7	4199685	0.09961	17.97	17.97	0	ANNUAL	LINE	5
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582290.7	4199721	0.09209	17	17	0	ANNUAL	LINE	5
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582320.4	4199749	0.08676	17	17	0	ANNUAL	LINE	5
582325.8	4199721	0.09201	17.84	17.84	0	ANNUAL	LINE	5
582326.2	4199694	0.09744	18	18	0	ANNUAL	LINE	5
582326.2	4199667	0.10344	18	18	0	ANNUAL	LINE	5
582300.8	4199659	0.10559	18	18	0	ANNUAL	LINE	5
582364.3	4199661	0.10454	18	18	0	ANNUAL	LINE	5
582391	4199651	0.10637	18	18	0	ANNUAL	LINE	5
582390	4199672	0.10154	18	18	0	ANNUAL	LINE	5
582385.3	4199699	0.09597	18	18	0	ANNUAL	LINE	5
582402.8	4199699	0.0956	18	18	0	ANNUAL	LINE	5
582401.1	4199716	0.09221	17.99	17.99	0	ANNUAL	LINE	5
582400.5	4199737	0.08832	17.69	17.69	0	ANNUAL	LINE	5
582399.8	4199751	0.08588	17.62	17.62	0	ANNUAL	LINE	5
582359.9	4199751	0.08624	17.03	17.03	0	ANNUAL	LINE	5
582351.8	4199730	0.09012	17.54	17.54	0	ANNUAL	LINE	5
582352.2	4199706	0.09481	18	18	0	ANNUAL	LINE	5
582016.9	4199440	0.17923	18	18	0	ANNUAL	LINE	5
581990.8	4199433	0.18012	18	18	0	ANNUAL	LINE	5
581965.9	4199433	0.17669	18	18	0	ANNUAL	LINE	5
581942.7	4199433	0.17333	18.3	18.3	0	ANNUAL	LINE	5
581916.1	4199430	0.1708	18.84	18.84	0	ANNUAL	LINE	5
581969.6	4199483	0.15229	18	18	0	ANNUAL	LINE	5
582021.3	4199469	0.164	18	18	0	ANNUAL	LINE	5
582014.5	4199492	0.15264	18	18	0	ANNUAL	LINE	5
582060.8	4199490	0.15739	18	18	0	ANNUAL	LINE	5
582080.1	4199493	0.1574	18	18	0	ANNUAL	LINE	5
581933.4	4199480	0.14927	18	18	0	ANNUAL	LINE	5
581892	4199436	0.16369	18.81	18.81	0	ANNUAL	LINE	5
581865.1	4199432	0.16076	19.57	19.57	0	ANNUAL	LINE	5
581843.9	4199431	0.15705	20.99	20.99	0	ANNUAL	LINE	5
581913.9	4199481	0.1464	18	18	0	ANNUAL	LINE	5
581889.3	4199480	0.14343	18.42	18.42	0	ANNUAL	LINE	5
581865.1	4199478	0.14057	19.49	19.49	0	ANNUAL	LINE	5
581840.5	4199480	0.1361	21.17	24	0	ANNUAL	LINE	5
581818.7	4199481	0.13156	23.17	24	0	ANNUAL	LINE	5
581788.5	4199488	0.12448	24.05	24.05	0	ANNUAL	LINE	5
581822.2	4199435	0.15014	23.16	23.16	0	ANNUAL	LINE	5
581794.1	4199436	0.14338	24.65	24.65	0	ANNUAL	LINE	5
581769	4199434	0.13953	24.21	24.21	0	ANNUAL	LINE	5
581747.7	4199435	0.13556	23.3	23.3	0	ANNUAL	LINE	5
581723.3	4199433	0.13147	22.99	22.99	0	ANNUAL	LINE	5
581749.1	4199412	0.14384	23.95	23.95	0	ANNUAL	LINE	5
581763.5	4199476	0.1245	23.65	23.65	0	ANNUAL	LINE	5
581723.3	4199489	0.11535	22	22	0	ANNUAL	LINE	5
581721.8	4199519	0.10763	21.19	21.19	0	ANNUAL	LINE	5
581727.8	4199548	0.10158	20	20	0	ANNUAL	LINE	5
581762.9	4199547	0.10589	20.19	20.19	0	ANNUAL	LINE	5
581791.2	4199547	0.10908	20.37	20.37	0	ANNUAL	LINE	5
581814	4199547	0.1119	19.65	19.65	0	ANNUAL	LINE	5
581840.4	4199545	0.1152	19.08	19.08	0	ANNUAL	LINE	5
581866.2	4199550	0.1167	18.25	18.25	0	ANNUAL	LINE	5
581887	4199544	0.12078	18	18	0	ANNUAL	LINE	5
581909.5	4199544	0.12304	18	18	0	ANNUAL	LINE	5
581938.6	4199546	0.12523	18	18	0	ANNUAL	LINE	5
581969.8	4199516	0.1387	18	18	0	ANNUAL	LINE	5
581965.9	4199545	0.12809	18	18	0	ANNUAL	LINE	5
582015.2	4199537	0.1349	18	18	0	ANNUAL	LINE	5
582065.9	4199531	0.14029	18	18	0	ANNUAL	LINE	5
582020.9	4199559	0.12752	18	18	0	ANNUAL	LINE	5
582040.4	4199527	0.1403	18	18	0	ANNUAL	LINE	5
582013.1	4199585	0.11874	18	18	0	ANNUAL	LINE	5
581990.6	4199600	0.11291	18	18	0	ANNUAL	LINE	5
581966.2	4199590	0.11404	18	18	0	ANNUAL	LINE	5
581940.1	4199596	0.11062	18	18	0	ANNUAL	LINE	5
581915.2	4199591	0.10993	18	18	0	ANNUAL	LINE	5
581893	4199590	0.10836	18	18	0	ANNUAL	LINE	5
581868	4199592	0.10564	18.19	18.19	0	ANNUAL	LINE	5
582013.4	4199665	0.09801	18	18	0	ANNUAL	LINE	5
581987.6	4199660	0.09783	18	18	0	ANNUAL	LINE	5
581964.1	4199661	0.09639	18	18	0	ANNUAL	LINE	5
581940.1	4199664	0.09446	18	18	0	ANNUAL	LINE	5
581916.1	4199664	0.09302	18	18	0	ANNUAL	LINE	5
581893.3	4199663	0.0917	18	18	0	ANNUAL	LINE	5
581865.3	4199663	0.08986	18	18	0	ANNUAL	LINE	5
581841.3	4199663	0.08834	18.08	18.08	0	ANNUAL	LINE	5
581810.1	4199660	0.08674	19	19	0	ANNUAL	LINE	5
581792.7	4199663	0.08486	19	19	0	ANNUAL	LINE	5
581761.1	4199659	0.08335	19	19	0	ANNUAL	LINE	5
581742.8	4199600	0.09243	19.32	19.32	0	ANNUAL	LINE	5
581767.1	4199591	0.09647	19.17	19.17	0	ANNUAL	LINE	5
581792.4	4199596	0.09771	19	19	0	ANNUAL	LINE	5
581812.8	4199603	0.09808	19	19	0	ANNUAL	LINE	5
581841	4199594	0.10281	19	19	0	ANNUAL	LINE	5
581830.5	4199633	0.09326	18.44	18.44	0	ANNUAL	LINE	5
581645.4	4199377	0.13117	23	23	0	ANNUAL	LINE	5
581670.1	4199379	0.13698	23.05	23.05	0	ANNUAL	LINE	5
581678.8	4199413	0.12847	23	23	0	ANNUAL	LINE	5
581673	4199435	0.12119	22.38	22.38	0	ANNUAL	LINE	5
581651.5	4199433	0.1172	22.43	22.43	0	ANNUAL	LINE	5
581623.9	4199437	0.11097	22.21	22.21	0	ANNUAL	LINE	5
581619.4	4199385	0.12204	23	23	0	ANNUAL	LINE	5
581673.5	4199487	0.10814	22	22	0	ANNUAL	LINE	5
581638	4199483	0.10344	22	22	0	ANNUAL	LINE	5
581600.7	4199484	0.09722	21.97	21.97	0	ANNUAL	LINE	5
581594.8	4199517	0.09072	21.45	21.45	0	ANNUAL	LINE	5
581597.4	4199543	0.08687	20.95	20.95	0	ANNUAL	LINE	5
581605.6	4199567	0.08409	20.97	20.97	0	ANNUAL	LINE	5
581612.7	4199589	0.08154	20.23	20.23	0	ANNUAL	LINE	5
581674.7	4199518	0.10134	21.85	21.85	0	ANNUAL	LINE	5
581683.4	4199547	0.09665	20.99	20.99	0	ANNUAL	LINE	5
581689	4199570	0.09268	20.16	20.16	0	ANNUAL	LINE	5
581623.4	4199611	0.07937	19.82	19.82	0	ANNUAL	LINE	5
581634.4	4199635	0.07706	19.71	19.71	0	ANNUAL	LINE	5
581656.1	4199633	0.07922	19.94	19.94	0	ANNUAL	LINE	5
581691.8	4199595	0.08842	20.06	20.06	0	ANNUAL	LINE	5
581700.8	4199620	0.08495	19.81	19.81	0	ANNUAL	LINE	5
581649	4199671	0.07335	19.25	19.25	0	ANNUAL	LINE	5
581685	4199672	0.07579	19.45	19.45	0	ANNUAL	LINE	5
581707.4	4199672	0.07742	19.25	19.25	0	ANNUAL	LINE	5
581608.1	4199726	0.06421	17.1	17.1	0	ANNUAL	LINE	5
581633.9	4199726	0.0658	17.67	17.67	0	ANNUAL	LINE	5
581661.2	4199718	0.06835	17.99	17.99	0	ANNUAL	LINE	5
581686	4199711	0.07079	18.79	18.79	0	ANNUAL	LINE	5
581712.4	4199714	0.07203	19	19	0	ANNUAL	LINE	5
581728.5	4199745	0.06899	18.04	18.04	0	ANNUAL	LINE	5
581731.8	4199769	0.06631	18	18	0	ANNUAL	LINE	5
581733.7	4199799	0.06305	18	18	0	ANNUAL	LINE	5
581694.2	4199796	0.06154	17.35	17.35	0	ANNUAL	LINE	5

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581679.24	4199840.69	3709.29441	17	17	0	ANNUAL	AREA	5
581696.6	4199859.79	3598.18889	17	17	0	ANNUAL	AREA	5
581740.21	4199842.43	3828.89083	17	17	0	ANNUAL	AREA	5
581742.38	4199873.46	3584.38385	17	17	0	ANNUAL	AREA	5
581744.77	4199904.7	3361.27242	17	17	0	ANNUAL	AREA	5
581721.77	4199932.69	3140.08326	17	17	0	ANNUAL	AREA	5
581740.86	4199931.61	3176.07835	17	17	0	ANNUAL	AREA	5
581679.46	4199931.61	3083.33209	17	17	0	ANNUAL	AREA	5
581638.02	4199930.52	3027.74646	17	17	0	ANNUAL	AREA	5
581633.03	4199917.94	3093.60588	17.02	17.02	0	ANNUAL	AREA	5
581629.12	4199893.2	3238.90368	17.15	17.15	0	ANNUAL	AREA	5
581618.27	4199865.43	3400.44615	17.51	17.51	0	ANNUAL	AREA	5
581607.64	4199842.21	3538.55205	17.87	17.87	0	ANNUAL	AREA	5
581649.52	4199791.44	4045.179	17	17	0	ANNUAL	AREA	5
581667.31	4199775.82	4241.11977	17.13	17.13	0	ANNUAL	AREA	5
581597.84	4199820.21	3673.72516	18	18	0	ANNUAL	AREA	5
581588.14	4199804.13	3767.0348	17.97	17.97	0	ANNUAL	AREA	5
581572.82	4199779.11	3912.33307	18.03	18.03	0	ANNUAL	AREA	5
581554.96	4199754.1	4048.31326	18.63	18.63	0	ANNUAL	AREA	5
581525.09	4199715.04	4231.9426	18.6	18.6	0	ANNUAL	AREA	5
581549.34	4199700.24	4482.88559	17.91	17.91	0	ANNUAL	AREA	5
581516.16	4199691.81	4375.06109	18.18	18.18	0	ANNUAL	AREA	5
581501.86	4199671.39	4461.34275	18.4	18.4	0	ANNUAL	AREA	5
581600.65	4199684.41	4917.60384	18.05	18.05	0	ANNUAL	AREA	5
581594.78	4199657.1	5198.36744	18.68	18.68	0	ANNUAL	AREA	5
581585.08	4199636.67	5378.07179	18.78	18.78	0	ANNUAL	AREA	5
581569.76	4199617.53	5496.88248	19.12	19.12	0	ANNUAL	AREA	5
581488.08	4199615.49	4846.29604	18.85	18.85	0	ANNUAL	AREA	5
581473.78	4199598.13	4877.35153	19.31	19.31	0	ANNUAL	AREA	5
581554.96	4199568.01	5986.14219	19.33	19.33	0	ANNUAL	AREA	5
581553.68	4199541.72	6330.54494	20.14	20.14	0	ANNUAL	AREA	5
581488.78	4199654.73	4515.34195	18.83	18.83	0	ANNUAL	AREA	5
581469.64	4199572.02	5067.59937	19.89	19.89	0	ANNUAL	AREA	5
581471.42	4199542.41	5353.87811	20.32	20.32	0	ANNUAL	AREA	5
581471.68	4199516.63	5596.73523	20.4	20.4	0	ANNUAL	AREA	5
581473.47	4199485.48	5923.79129	21.03	21.03	0	ANNUAL	AREA	5
581494.91	4199482.17	6272.90584	20.42	20.42	0	ANNUAL	AREA	5
581530.13	4199483.19	6812.45961	20.44	20.44	0	ANNUAL	AREA	5
581550.3	4199485.99	7103.3296	21.15	21.15	0	ANNUAL	AREA	5
581551.58	4199513.05	6715.44508	20.83	20.83	0	ANNUAL	AREA	5
581416.54	4199436.47	5484.23723	22.48	22.48	0	ANNUAL	AREA	5
581441.05	4199435.45	5873.69915	22.15	22.15	0	ANNUAL	AREA	5
581460.7	4199432.39	6229.03925	22	22	0	ANNUAL	AREA	5
581485.72	4199431.88	6683.62162	21.9	21.9	0	ANNUAL	AREA	5
581357.06	4199341	5051.41254	25	25	0	ANNUAL	AREA	5
581348.64	4199370.36	4822.69696	25	25	0	ANNUAL	AREA	5
581368.04	4199386.44	5038.02015	24.84	24.84	0	ANNUAL	AREA	5
581392.04	4199381.85	5427.73566	24.19	24.19	0	ANNUAL	AREA	5
581418.58	4199379.55	5894.69896	24.22	24.22	0	ANNUAL	AREA	5
581442.58	4199378.53	6352.04698	23.62	23.62	0	ANNUAL	AREA	5
581467.85	4199379.04	6864.53921	22.76	22.76	0	ANNUAL	AREA	5
581486.99	4199381.59	7258.07071	22.04	22.04	0	ANNUAL	AREA	5
581384.38	4199436.47	5025.15946	23.1	23.1	0	ANNUAL	AREA	5
581365.49	4199433.41	4789.85914	23.4	23.4	0	ANNUAL	AREA	5
581333.07	4199438	4376.62751	24.27	24.27	0	ANNUAL	AREA	5
581312.65	4199433.41	4163.50252	24.42	24.42	0	ANNUAL	AREA	5
581284.82	4199435.71	3868.66095	24.76	24.76	0	ANNUAL	AREA	5
581264.4	4199436.73	3671.65858	25.31	25.31	0	ANNUAL	AREA	5
581240.66	4199438.26	3452.34787	26.13	26.13	0	ANNUAL	AREA	5
581205.69	4199430.35	3169.65286	27.92	27.92	0	ANNUAL	AREA	5
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581181.19	4199450.26	2957.55029	29.17	29.17	0	ANNUAL	AREA	5
581186.29	4199466.08	2973.02117	28.83	28.83	0	ANNUAL	AREA	5
581175.31	4199477.57	2880.77985	29.5	29.5	0	ANNUAL	AREA	5
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581208.24	4199497.99	3084.17696	27.23	27.23	0	ANNUAL	AREA	5
581229.43	4199481.65	3275.1429	26.38	26.38	0	ANNUAL	AREA	5
581252.92	4199478.08	3474.96081	25.65	25.65	0	ANNUAL	AREA	5
581253.68	4199488.29	3458.40734	25.4	25.4	0	ANNUAL	AREA	5
581228.92	4199496.72	3242.67253	26.14	26.14	0	ANNUAL	AREA	5
581288.14	4199482.42	3769.80141	24.42	24.42	0	ANNUAL	AREA	5
581197.27	4199390.78	3162.19837	27.7	27.7	0	ANNUAL	AREA	5
581214.63	4199379.8	3322.47374	27	27	0	ANNUAL	AREA	5
581265.17	4199378.02	3801.94832	25.76	25.76	0	ANNUAL	AREA	5
581288.4	4199388.99	4023.71518	25	25	0	ANNUAL	AREA	5
581312.65	4199385.67	4307.77524	25	25	0	ANNUAL	AREA	5
581307.54	4199372.4	4283.3684	25	25	0	ANNUAL	AREA	5
581258.28	4199348.92	3778.09882	26.51	26.51	0	ANNUAL	AREA	5
581262.62	4199327.98	3863.2795	26.37	26.37	0	ANNUAL	AREA	5
581261.34	4199297.86	3904.70532	26.41	26.41	0	ANNUAL	AREA	5
581306.01	4199290.72	4456.20923	26	26	0	ANNUAL	AREA	5
581302.69	4199325.43	4332.99448	26	26	0	ANNUAL	AREA	5
581304.73	4199350.19	4306.91252	25.19	25.19	0	ANNUAL	AREA	5
581329.24	4199296.08	4763.12866	26	26	0	ANNUAL	AREA	5
581350.43	4199289.44	5117.56375	25.44	25.44	0	ANNUAL	AREA	5
581380.8	4199288.93	5646.03027	25	25	0	ANNUAL	AREA	5
581385.4	4199334.62	5542.16815	25	25	0	ANNUAL	AREA	5
581413.48	4199334.62	6066.11094	25	25	0	ANNUAL	AREA	5
581482.14	4199341.26	7570.97664	23.05	23.05	0	ANNUAL	AREA	5
581454.32	4199322.62	7038.59222	23.87	23.87	0	ANNUAL	AREA	5
581444.62	4199300.42	6957.24208	23.71	23.71	0	ANNUAL	AREA	5
581426.75	4199281.78	6641.14569	24.37	24.37	0	ANNUAL	AREA	5
581411.44	4199265.19	6371.06343	24.38	24.38	0	ANNUAL	AREA	5
581397.91	4199246.81	6150.7135	24.22	24.22	0	ANNUAL	AREA	5
581518.14	4199345.09	8513.61874	22.05	22.05	0	ANNUAL	AREA	5
581533.96	4199338.71	9099.53484	22.39	22.39	0	ANNUAL	AREA	5
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581502.57	4199294.8	8660.08285	22.4	22.4	0	ANNUAL	AREA	5
581487.76	4199278.72	8345.65752	22.94	22.94	0	ANNUAL	AREA	5
581472.44	4199254.47	8059.75223	23	23	0	ANNUAL	AREA	5
581457.13	4199236.34	7709.81351	23	23	0	ANNUAL	AREA	5
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581413.99	4199171.76	6813.22231	23	23	0	ANNUAL	AREA	5
581397.4	4199155.93	6462.36865	23	23	0	ANNUAL	AREA	5
581368.63	4199109.46	5968.60659	23.13	23.13	0	ANNUAL	AREA	5
581356.05	4199087.98	5770.0168	22.98	22.98	0	ANNUAL	AREA	5
581343.89	4199076.92	5569.18513	23.2	23.2	0	ANNUAL	AREA	5
581335.65	4199040.46	5489.01447	23.45	23.45	0	ANNUAL	AREA	5
581327.62	4199020.28	5376.04546	23.2	23.2	0	ANNUAL	AREA	5
581325.67	4198998.15	5363.55898	23.27	23.27	0	ANNUAL	AREA	5
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581301.8	4198991.21	4998.47621	24	24	0	ANNUAL	AREA	5
581291.17	4199002.06	4838.29966	24	24	0	ANNUAL	AREA	5
581264.48	4198977.1	4500.07236	24.19	24.19	0	ANNUAL	AREA	5
581265.56	4199005.75	4496.96261	24	24	0	ANNUAL	AREA	5
581270.77	4199028.96	4540.90128	24.1	24.1	0	ANNUAL	AREA	5
581279.67	4199049.79	4631.50654	24.63	24.63	0	ANNUAL	AREA	5
581294.42	4199077.13	4786.71704	24.31	24.31	0	ANNUAL	AREA	5
581302.02	4199102.09	4845.13916	24.06	24.06	0	ANNUAL	AREA	5
581315.04	4199124.87	4986.71853	23.65	23.65	0	ANNUAL	AREA	5
581328.49	4199140.93	5161.42003	23.86	23.86	0	ANNUAL	AREA	5
581341.94	4199165.45	5324.93397	24.19	24.19	0	ANNUAL	AREA	5
581351.27	4199185.62	5432.4	24.02	24.02	0	ANNUAL	AREA	5
581368.41	4199201.03	5703.81811	23.7	23.7	0	ANNUAL	AREA	5
581383.82	4199223.38	5939.25868	23.91	23.91	0	ANNUAL	AREA	5
581348.23	4199249.63	5200.36166	25.23	25.23	0	ANNUAL	AREA	5
581307.01	4199250.5	4564.29278	25.94	25.94	0	ANNUAL	AREA	5
581279.45	4199214.05	4290.39945	25.86	25.86	0	ANNUAL	AREA	5
581279.89	4199251.59	4213.27269	26	26	0	ANNUAL	AREA	5
581253.63	4199251.37	3915.89783	26	26	0	ANNUAL	AREA	5
581257.1	4199207.97	4048.6002	25.48	25.48	0	ANNUAL	AREA	5
581237.36	4199216.22	3821.91352	25.48	25.48	0	ANNUAL	AREA	5
581230.41	4199250.94	3676.97666	26.22	26.22	0	ANNUAL	AREA	5
581779.8	4199747.89	4908.93353	18	18	0	ANNUAL	AREA	5
581771.63	4199707.05	5426.81113	19	19	0	ANNUAL	AREA	5
581805.33	4199706.79	5569.1046	18.5	18.5	0	ANNUAL	AREA	5
581824.22	4199706.54	5650.66915	18.21	18.21	0	ANNUAL	AREA	5
581850.77	4199710.37	5700.86335	18	18	0	ANNUAL	AREA	5

581672.3	4199817	0.05852	17	17	0	ANNUAL	LINE	5
581679.2	4199841	0.05663	17	17	0	ANNUAL	LINE	5
581696.6	4199860	0.0556	17	17	0	ANNUAL	LINE	5
581740.2	4199842	0.05884	17	17	0	ANNUAL	LINE	5
581742.4	4199873	0.05603	17	17	0	ANNUAL	LINE	5
581744.8	4199905	0.05341	17	17	0	ANNUAL	LINE	5
581721.8	4199933	0.05048	17	17	0	ANNUAL	LINE	5
581740.9	4199932	0.05112	17	17	0	ANNUAL	LINE	5
581679.5	4199932	0.04931	17	17	0	ANNUAL	LINE	5
581638	4199931	0.04814	17	17	0	ANNUAL	LINE	5
581633	4199918	0.04886	17.02	17.02	0	ANNUAL	LINE	5
581629.1	4199893	0.05051	17.15	17.15	0	ANNUAL	LINE	5
581618.1	4199865	0.05223	17.51	17.51	0	ANNUAL	LINE	5
581607.6	4199842	0.05364	17.87	17.87	0	ANNUAL	LINE	5
581649.5	4199791	0.0599	17	17	0	ANNUAL	LINE	5
581667.3	4199776	0.06231	17.13	17.13	0	ANNUAL	LINE	5
581597.8	4199820	0.055	18	18	0	ANNUAL	LINE	5
581588.1	4199804	0.05589	17.97	17.97	0	ANNUAL	LINE	5
581572.8	4199779	0.05725	18.03	18.03	0	ANNUAL	LINE	5
581555	4199754	0.05846	18.63	18.63	0	ANNUAL	LINE	5
581525.1	4199715	0.06005	18.6	18.6	0	ANNUAL	LINE	5
581549.3	4199700	0.063	17.91	17.91	0	ANNUAL	LINE	5
581516.2	4199692	0.06149	18.18	18.18	0	ANNUAL	LINE	5
581501.9	4199671	0.06228	18.4	18.4	0	ANNUAL	LINE	5
581600.7	4199684	0.06823	18.05	18.05	0	ANNUAL	LINE	5
581594.8	4199657	0.07096	18.68	18.68	0	ANNUAL	LINE	5
581585.1	4199637	0.07291	18.78	18.78	0	ANNUAL	LINE	5
581569.8	4199618	0.07358	19.12	19.12	0	ANNUAL	LINE	5
581488.1	4199615	0.0663	18.85	18.85	0	ANNUAL	LINE	5
581473.8	4199598	0.06662	19.31	19.31	0	ANNUAL	LINE	5
581555	4199568	0.07829	19.33	19.33	0	ANNUAL	LINE	5
581553.7	4199542	0.08165	20.14	20.14	0	ANNUAL	LINE	5
581488.8	4199655	0.06276	18.83	18.83	0	ANNUAL	LINE	5
581469.6	4199572	0.06868	19.89	19.89	0	ANNUAL	LINE	5
581471.4	4199542	0.07179	20.32	20.32	0	ANNUAL	LINE	5
581471.7	4199517	0.07446	20.4	20.4	0	ANNUAL	LINE	5
581473.5	4199485	0.07803	21.03	21.03	0	ANNUAL	LINE	5
581494.9	4199482	0.08146	20.42	20.42	0	ANNUAL	LINE	5
581530.1	4199483	0.08654	20.44	20.44	0	ANNUAL	LINE	5
581550.3	4199486	0.08917	21.15	21.15	0	ANNUAL	LINE	5
581551.6	4199513	0.08539	20.83	20.83	0	ANNUAL	LINE	5
581416.5	4199436	0.0745	22.48	22.48	0	ANNUAL	LINE	5
581441.1	4199435	0.07836	22.15	22.15	0	ANNUAL	LINE	5
581460.7	4199432	0.08183	22	22	0	ANNUAL	LINE	5
581485.7	4199432	0.08608	21.9	21.9	0	ANNUAL	LINE	5
581357.1	4199341	0.07149	25	25	0	ANNUAL	LINE	5
581348.6	4199370	0.06853	25	25	0	ANNUAL	LINE	5
581368	4199386	0.07048	24.84	24.84	0	ANNUAL	LINE	5
581392	4199382	0.07467	24.19	24.19	0	ANNUAL	LINE	5
581418.6	4199380	0.07928	24.22	24.22	0	ANNUAL	LINE	5
581442.6	4199379	0.08385	23.62	23.62	0	ANNUAL	LINE	5
581467.9	4199379	0.0889	22.76	22.76	0	ANNUAL	LINE	5
581487	4199382	0.09266	22.04	22.04	0	ANNUAL	LINE	5
581384.4	4199436	0.06978	23.1	23.1	0	ANNUAL	LINE	5
581365.5	4199433	0.06738	23.4	23.4	0	ANNUAL	LINE	5
581333.1	4199438	0.06281	24.27	24.27	0	ANNUAL	LINE	5
581312.7	4199433	0.0606	24.42	24.42	0	ANNUAL	LINE	5
581284.8	4199436	0.05729	24.76	24.76	0	ANNUAL	LINE	5
581264.4	4199437	0.05419	25.31	25.31	0	ANNUAL	LINE	5
581240.7	4199438	0.04881	26.13	26.13	0	ANNUAL	LINE	5
581205.7	4199430	0.04041	27.92	27.92	0	ANNUAL	LINE	5
581195.2	4199445	0.03905	28.25	28.25	0	ANNUAL	LINE	5
581181.2	4199450	0.03725	29.17	29.17	0	ANNUAL	LINE	5
581186.3	4199466	0.03755	28.83	28.83	0	ANNUAL	LINE	5
581175.3	4199478	0.03613	29.5	29.5	0	ANNUAL	LINE	5
581213.1	4199484	0.04061	27.04	27.04	0	ANNUAL	LINE	5
581208.2	4199498	0.03975	27.23	27.23	0	ANNUAL	LINE	5
581229.4	4199482	0.04589	26.38	26.38	0	ANNUAL	LINE	5
581252.9	4199478	0.05034	25.65	25.65	0	ANNUAL	LINE	5
581253.7	4199488	0.05113	25.4	25.4	0	ANNUAL	LINE	5
581228.9	4199497	0.04605	26.14	26.14	0	ANNUAL	LINE	5
581288.1	4199482	0.05562	24.42	24.42	0	ANNUAL	LINE	5
581197.3	4199391	0.04073	27.7	27.7	0	ANNUAL	LINE	5
581214.6	4199380	0.04473	27	27	0	ANNUAL	LINE	5
581265.2	4199378	0.05476	25.76	25.76	0	ANNUAL	LINE	5
581288.4	4199389	0.05962	25	25	0	ANNUAL	LINE	5
581312.7	4199386	0.06279	25	25	0	ANNUAL	LINE	5
581307.5	4199372	0.06273	25	25	0	ANNUAL	LINE	5
581258.3	4199349	0.05149	26.51	26.51	0	ANNUAL	LINE	5
581262.6	4199328	0.05349	26.37	26.37	0	ANNUAL	LINE	5
581261.3	4199298	0.05402	26.41	26.41	0	ANNUAL	LINE	5
581306	4199291	0.06254	26	26	0	ANNUAL	LINE	5
581302.7	4199325	0.06088	26	26	0	ANNUAL	LINE	5
581304.7	4199350	0.06246	25.19	25.19	0	ANNUAL	LINE	5
581329.2	4199296	0.06578	26	26	0	ANNUAL	LINE	5
581350.4	4199289	0.07168	25.44	25.44	0	ANNUAL	LINE	5
581380.8	4199289	0.07873	25	25	0	ANNUAL	LINE	5
581385.4	4199335	0.07667	25	25	0	ANNUAL	LINE	5
581413.5	4199335	0.08186	25	25	0	ANNUAL	LINE	5
581482.1	4199341	0.09642	23.05	23.05	0	ANNUAL	LINE	5
581454.3	4199323	0.09187	23.87	23.87	0	ANNUAL	LINE	5
581444.6	4199300	0.09194	23.71	23.71	0	ANNUAL	LINE	5
581426.8	4199282	0.08918	24.37	24.37	0	ANNUAL	LINE	5
581411.4	4199265	0.08694	24.38	24.38	0	ANNUAL	LINE	5
581397.9	4199247	0.08519	24.22	24.22	0	ANNUAL	LINE	5
581518.1	4199345	0.10496	22.05	22.05	0	ANNUAL	LINE	5
581534	4199339	0.10999	22.39	22.39	0	ANNUAL	LINE	5
581515.3	4199315	0.109	22.05	22.05	0	ANNUAL	LINE	5
581502.6	4199295	0.10837	22.4	22.4	0	ANNUAL	LINE	5
581487.8	4199279	0.106	22.94	22.94	0	ANNUAL	LINE	5
581472.4	4199254	0.10444	23	23	0	ANNUAL	LINE	5
581457.1	4199236	0.10188	23	23	0	ANNUAL	LINE	5
581444.4	4199219	0.0998	23	23	0	ANNUAL	LINE	5
581430.8	4199197	0.09763	23	23	0	ANNUAL	LINE	5
581414	4199172	0.09462	23	23	0	ANNUAL	LINE	5
581397.4	4199156	0.09105	23	23	0	ANNUAL	LINE	5
581368.6	4199109	0.08582	23.13	23.13	0	ANNUAL	LINE	5
581356.1	4199088	0.08376	22.98	22.98	0	ANNUAL	LINE	5
581343.9	4199077	0.08122	23.2	23.2	0	ANNUAL	LINE	5
581335.7	4199040	0.08039	23.45	23.45	0	ANNUAL	LINE	5
581327.6	4199020	0.07934	23.2	23.2	0	ANNUAL	LINE	5
581325.7	4198998	0.0794	23.27	23.27	0	ANNUAL	LINE	5
581311.8	4198973	0.07672	23.73	23.73	0	ANNUAL	LINE	5
581301.8	4198991	0.07431	24	24	0	ANNUAL	LINE	5
581291.2	4199002	0.07211	24	24	0	ANNUAL	LINE	5
581264.5	4198977	0.06779	24.19	24.19	0	ANNUAL	LINE	5
581265.6	4199006	0.0676	24	24	0	ANNUAL	LINE	5
581270.8	4199029	0.06799	24.1	24.1	0	ANNUAL	LINE	5
581279.7	4199050	0.06884	24.63	24.63	0	ANNUAL	LINE	5
581294.4	4199077	0.07084	24.31	24.31	0	ANNUAL	LINE	5
581302	4199102	0.07161	24.06	24.06	0	ANNUAL	LINE	5
581315	4199125	0.07351	23.65	23.65	0	ANNUAL	LINE	5
581328.5	4199141	0.07548	23.86	23.86	0	ANNUAL	LINE	5
581341.9	4199165	0.07713	24.19	24.19	0	ANNUAL	LINE	5
581351.3	4199186	0.07832	24.02	24.02	0	ANNUAL	LINE	5
581368.4	4199201	0.08142	23.7	23.7	0	ANNUAL	LINE	5
581383.8	4199223	0.08356	23.91	23.91	0	ANNUAL	LINE	5
581348.2	4199250	0.07352	25.23	25.23	0	ANNUAL	LINE	5
581307	4199251	0.06401	25.94	25.94	0	ANNUAL	LINE	5
581279.5	4199214	0.06116	25.86	25.86	0	ANNUAL	LINE	5
581279.9	4199252	0.06004	26	26	0	ANNUAL	LINE	5
581253.6	4199251	0.0566	26	26	0	ANNUAL	LINE	5
581257.1	4199208	0.05983	25.48	25.48	0	ANNUAL	LINE	5
581237.4	4199216	0.05707	25.48	25.48	0	ANNUAL	LINE	5
581230.4	4199251	0.05212	26.22	26.22	0	ANNUAL	LINE	5
581779.8	4199748	0.07131	18	18	0	ANNUAL	LINE	5
581771.6	4199707	0.07655	19	19	0	ANNUAL	LINE	5
581805.3	4199707	0.0786	18.5	18.5	0	ANNUAL	LINE	5
581824.2	4199707	0.07975	18.21	18.21	0	ANNUAL	LINE	5
581850.8	4199710	0.08068	18	18	0	ANNUAL	LINE	5

581855.88	4199742.79	5242.73798	18	18	0	ANNUAL	AREA	5
581859.71	4199765	4961.12499	18	18	0	ANNUAL	AREA	5
581855.62	4199788.74	4660.69547	18	18	0	ANNUAL	AREA	5
581855.37	4199814.78	4372.84949	17.89	17.89	0	ANNUAL	AREA	5
581898	4199708.58	5924.55151	18	18	0	ANNUAL	AREA	5
581900.04	4199738.45	5462.92689	18	18	0	ANNUAL	AREA	5
581900.3	4199757.08	5198.89228	18	18	0	ANNUAL	AREA	5
581901.57	4199783.63	4857.74219	18	18	0	ANNUAL	AREA	5
581900.55	4199811.21	4531.49161	17.83	17.83	0	ANNUAL	AREA	5
581935.78	4199706.54	6110.77817	18	18	0	ANNUAL	AREA	5
581959.27	4199703.22	6260.78511	18	18	0	ANNUAL	AREA	5
581977.14	4199710.62	6190.07493	17.63	17.63	0	ANNUAL	AREA	5
581972.03	4199735.9	5747.31466	17.72	17.72	0	ANNUAL	AREA	5
581973.82	4199758.36	5409.23449	17.39	17.39	0	ANNUAL	AREA	5
581973.57	4199780.57	5098.11821	17	17	0	ANNUAL	AREA	5
581977.14	4199805.08	4797.54565	17	17	0	ANNUAL	AREA	5
581939.61	4199813.25	4606.81138	17	17	0	ANNUAL	AREA	5
581844.64	4199839.54	4098.73331	17.86	17.86	0	ANNUAL	AREA	5
581871.45	4199870.18	3877.74853	17	17	0	ANNUAL	AREA	5
581900.3	4199855.12	4078.26206	17	17	0	ANNUAL	AREA	5
581930.42	4199853.33	4163.55788	17	17	0	ANNUAL	AREA	5
581961.57	4199853.58	4229.92711	17	17	0	ANNUAL	AREA	5
581981.73	4199853.84	4270.36103	17	17	0	ANNUAL	AREA	5
582011.86	4199868.9	4181.49384	17	17	0	ANNUAL	AREA	5
582028.96	4199858.18	4320.43814	17	17	0	ANNUAL	AREA	5
582033.81	4199841.33	4507.15974	17	17	0	ANNUAL	AREA	5
582021.56	4199820.14	4721.3607	17	17	0	ANNUAL	AREA	5
582020.79	4199796.4	5010.6519	17	17	0	ANNUAL	AREA	5
582019.01	4199769.08	5376.47283	17	17	0	ANNUAL	AREA	5
582022.07	4199743.81	5765.65188	17	17	0	ANNUAL	AREA	5
582017.73	4199713.94	6259.8433	17.07	17.07	0	ANNUAL	AREA	5
582036.88	4199662.88	7371.41163	18	18	0	ANNUAL	AREA	5
582065.98	4199660.58	7512.10043	17.94	17.94	0	ANNUAL	AREA	5
582080.79	4199693.77	6816.17078	17.07	17.07	0	ANNUAL	AREA	5
582103.51	4199713.68	6475.23586	17	17	0	ANNUAL	AREA	5
582069.81	4199713.43	6410.12505	17.04	17.04	0	ANNUAL	AREA	5
582065.73	4199745.85	5841.12791	17	17	0	ANNUAL	AREA	5
582107.34	4199747.89	5889.68172	17	17	0	ANNUAL	AREA	5
582068.53	4199777.76	5365.98249	17	17	0	ANNUAL	AREA	5
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582102.74	4199778.27	5421.94256	17	17	0	ANNUAL	AREA	5
582102.74	4199800.23	5122.6434	17	17	0	ANNUAL	AREA	5
582105.81	4199822.69	4846.49419	17	17	0	ANNUAL	AREA	5
582068.79	4199834.69	4645.74943	17	17	0	ANNUAL	AREA	5
582069.55	4199858.69	4386.87426	17	17	0	ANNUAL	AREA	5
582101.72	4199850.01	4529.23832	17	17	0	ANNUAL	AREA	5
582069.55	4199880.9	4165.52145	17	17	0	ANNUAL	AREA	5
582103.51	4199874.01	4283.08396	17	17	0	ANNUAL	AREA	5
582067.51	4199907.96	3915.31402	17	17	0	ANNUAL	AREA	5
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582031.26	4199933.23	3651.96536	17	17	0	ANNUAL	AREA	5
582009.31	4199935.02	3604.14846	17	17	0	ANNUAL	AREA	5
581986.84	4199935.02	3568.11029	17	17	0	ANNUAL	AREA	5
581966.42	4199932.98	3549.74198	17	17	0	ANNUAL	AREA	5
581942.93	4199932.72	3511.64098	17	17	0	ANNUAL	AREA	5
581918.17	4199931.7	3475.97871	17	17	0	ANNUAL	AREA	5
581895.96	4199934.25	3418.45483	17	17	0	ANNUAL	AREA	5
581876.3	4199933.74	3387.62943	17	17	0	ANNUAL	AREA	5
581851.54	4199932.98	3349.68742	17	17	0	ANNUAL	AREA	5
581827.8	4199931.19	3321.05064	17	17	0	ANNUAL	AREA	5
581790.27	4199930.43	3262.88236	17	17	0	ANNUAL	AREA	5
581789.76	4199913.32	3379.14654	17	17	0	ANNUAL	AREA	5
581789.5	4199898.51	3485.3305	17	17	0	ANNUAL	AREA	5
581788.74	4199870.94	3696.45198	17	17	0	ANNUAL	AREA	5
581788.48	4199843.37	3931.73009	17.76	17.76	0	ANNUAL	AREA	5
581781.08	4199795.38	4374.66717	18	18	0	ANNUAL	AREA	5
581787.29	4199814.22	4201.22425	18	18	0	ANNUAL	AREA	5
581778.83	4199765.39	4696.70459	18	18	0	ANNUAL	AREA	5
581700.8	4199341.83	16030.67436	24	24	0	ANNUAL	AREA	5
581679.22	4199322.28	16022.25276	24	24	0	ANNUAL	AREA	5
581664.65	4199301.25	16312.40505	24	24	0	ANNUAL	AREA	5
581693.42	4199278.38	19932.58716	24	24	0	ANNUAL	AREA	5
581704.31	4199251.08	23396.5913	24	24	0	ANNUAL	AREA	5
581703.93	4199225.78	25998.61502	24	24	0	ANNUAL	AREA	5
581709.57	4199199.96	30144.20176	24.2	24.2	0	ANNUAL	AREA	5
581703.49	4199176.3	32189.79509	24.99	24.99	0	ANNUAL	AREA	5
581704.79	4199150.91	36332.25654	25	25	0	ANNUAL	AREA	5
581706.53	4199127.91	40737.3863	25	25	0	ANNUAL	AREA	5
581704.58	4199103.82	43656.93905	25	25	0	ANNUAL	AREA	5
581712.61	4199076.69	52682.41314	25	25	0	ANNUAL	AREA	5
581608.87	4199106.86	18786.78857	25	25	0	ANNUAL	AREA	5
581610.61	4199148.09	18118.74912	25	25	0	ANNUAL	AREA	5
581627.75	4199139.85	20552.55399	25	25	0	ANNUAL	AREA	5
581630.57	4199086.24	22352.24137	25	25	0	ANNUAL	AREA	5
581660.96	4199076.26	29036.4594	25	25	0	ANNUAL	AREA	5
581670.07	4199104.69	30450.75917	25	25	0	ANNUAL	AREA	5
581664.43	4199127.04	27745.42364	25	25	0	ANNUAL	AREA	5
581664.21	4199153.08	26019.12089	25	25	0	ANNUAL	AREA	5
581632.09	4199169.14	20065.26686	25	25	0	ANNUAL	AREA	5
581631.23	4199198.22	18710.52641	24.26	24.26	0	ANNUAL	AREA	5
581598.24	4199210.59	15174.80439	24	24	0	ANNUAL	AREA	5
581611.48	4199225.13	15800.93743	24	24	0	ANNUAL	AREA	5
581626.45	4199249.44	16084.41265	24	24	0	ANNUAL	AREA	5
581640.77	4199270.49	16237.30096	24	24	0	ANNUAL	AREA	5
581665.08	4199176.09	24551.78381	25	25	0	ANNUAL	AREA	5
581667.25	4199199.31	23155.28137	24.23	24.23	0	ANNUAL	AREA	5
581662.26	4199251.83	19006.565	24	24	0	ANNUAL	AREA	5
581665.91	4199228.58	20892.87732	24	24	0	ANNUAL	AREA	5
581592.04	4199340.29	11148.19044	23	23	0	ANNUAL	AREA	5
581635.02	4199340.84	12924.8094	23.02	23.02	0	ANNUAL	AREA	5
581627.64	4199322.39	13269.5734	23.1	23.1	0	ANNUAL	AREA	5
581613.44	4199302.47	13253.84091	23.26	23.26	0	ANNUAL	AREA	5
581597.98	4199281.04	13091.69496	23.41	23.41	0	ANNUAL	AREA	5
581581.7	4199266.07	12582.26201	23.27	23.27	0	ANNUAL	AREA	5
581571.5	4199244.58	12502.8194	23.66	23.66	0	ANNUAL	AREA	5
581554.57	4199222.66	11941.90904	23.65	23.65	0	ANNUAL	AREA	5
581542.42	4199205.3	11525.62833	24	24	0	ANNUAL	AREA	5
581526.36	4199189.89	10849.64556	24	24	0	ANNUAL	AREA	5
581510.3	4199163.19	10286.6369	23.95	23.95	0	ANNUAL	AREA	5
581495.54	4199148	9697.13604	23.43	23.43	0	ANNUAL	AREA	5
581482.73	4199126.95	9254.52956	23	23	0	ANNUAL	AREA	5
581465.81	4199102.64	8685.32658	22.73	22.73	0	ANNUAL	AREA	5
581456.47	4199081.81	8403.02085	22.08	22.08	0	ANNUAL	AREA	5
581438.46	4199060.54	7854.77396	22	22	0	ANNUAL	AREA	5
581411.33	4198993.26	7162.91933	22.37	22.37	0	ANNUAL	AREA	5
581397.66	4198973.73	6815.89899	22.22	22.22	0	ANNUAL	AREA	5
581362.28	4198974.16	6040.18942	23	23	0	ANNUAL	AREA	5
581361.63	4198997.38	6017.99305	23	23	0	ANNUAL	AREA	5
581372.27	4199025.6	6210.75057	23	23	0	ANNUAL	AREA	5
581380.73	4199046	6364.50855	23	23	0	ANNUAL	AREA	5
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581389.41	4199127.6	6370.51248	23.53	23.53	0	ANNUAL	AREA	5
581413.5	4199111.32	7009.56183	23.18	23.18	0	ANNUAL	AREA	5
581426.74	4199127.6	7319.2735	23	23	0	ANNUAL	AREA	5
581441.93	4199148	7694.22714	23	23	0	ANNUAL	AREA	5
581459.73	4199166.45	8191.31376	23.14	23.14	0	ANNUAL	AREA	5
581470.28	4199184.06	8467.47025	23.41	23.41	0	ANNUAL	AREA	5
581487.39	4199204.23	8967.09467	23.18	23.18	0	ANNUAL	AREA	5
581501.69	4199226.19	9348.3003	23.2	23.2	0	ANNUAL	AREA	5
581510.88	4199240.23	9578.78843	23	23	0	ANNUAL	AREA	5
581526.97	4199264.49	9952.3929	23	23	0	ANNUAL	AREA	5
581542.29	4199280.83	10354.88437	22.98	22.98	0	ANNUAL	AREA	5
581555.82	4199303.56	10518.54655	23	23	0	ANNUAL	AREA	5
581569.1	4199322.7	10664.11552	23	23	0	ANNUAL	AREA	5
581519.47	4199379	8069.45438	21.38	21.38	0	ANNUAL	AREA	5
581541.1	4199381.7	8603.9803	21.93	21.93	0	ANNUAL	AREA	5
581571.44	4199377.2	9566.18447	22.92	22.92	0	ANNUAL	AREA	5
581593.37	4199379	10200.77473	23	23	0	ANNUAL	AREA	5

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581859.7	4199765	0.07296	18	18	0	ANNUAL	LINE	5
581855.6	4199789	0.06961	18	18	0	ANNUAL	LINE	5
581855.4	4199815	0.06636	17.89	17.89	0	ANNUAL	LINE	5
581898	4199709	0.08361	18	18	0	ANNUAL	LINE	5
581900	4199738	0.07879	18	18	0	ANNUAL	LINE	5
581900.3	4199757	0.07596	18	18	0	ANNUAL	LINE	5
581901.6	4199784	0.07222	18	18	0	ANNUAL	LINE	5
581900.6	4199811	0.06854	17.83	17.83	0	ANNUAL	LINE	5
581935.8	4199707	0.08593	18	18	0	ANNUAL	LINE	5
581959.3	4199703	0.08769	18	18	0	ANNUAL	LINE	5
581977.1	4199711	0.08711	17.63	17.63	0	ANNUAL	LINE	5
581972	4199736	0.08242	17.72	17.72	0	ANNUAL	LINE	5
581973.8	4199758	0.07878	17.39	17.39	0	ANNUAL	LINE	5
581973.6	4199781	0.07535	17	17	0	ANNUAL	LINE	5
581977.1	4199805	0.07198	17	17	0	ANNUAL	LINE	5
581939.6	4199813	0.06964	17	17	0	ANNUAL	LINE	5
581844.6	4199840	0.06311	17.86	17.86	0	ANNUAL	LINE	5
581871.5	4199870	0.06071	17	17	0	ANNUAL	LINE	5
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581930.4	4199853	0.06442	17	17	0	ANNUAL	LINE	5
581961.6	4199854	0.06532	17	17	0	ANNUAL	LINE	5
581981.7	4199854	0.06585	17	17	0	ANNUAL	LINE	5
582011.9	4199869	0.06482	17	17	0	ANNUAL	LINE	5
582029	4199858	0.0665	17	17	0	ANNUAL	LINE	5
582033.8	4199841	0.06873	17	17	0	ANNUAL	LINE	5
582021.6	4199820	0.07121	17	17	0	ANNUAL	LINE	5
582020.8	4199796	0.07453	17	17	0	ANNUAL	LINE	5
582019	4199769	0.07862	17	17	0	ANNUAL	LINE	5
582022.1	4199744	0.08289	17	17	0	ANNUAL	LINE	5
582017.7	4199714	0.08812	17.07	17.07	0	ANNUAL	LINE	5
582036.9	4199663	0.09956	18	18	0	ANNUAL	LINE	5
582066	4199661	0.10125	17.94	17.94	0	ANNUAL	LINE	5
582080.8	4199694	0.09434	17.07	17.07	0	ANNUAL	LINE	5
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582069.8	4199713	0.09002	17.04	17.04	0	ANNUAL	LINE	5
582065.7	4199746	0.0839	17	17	0	ANNUAL	LINE	5
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582068.5	4199778	0.07866	17	17	0	ANNUAL	LINE	5
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582101.7	4199850	0.06903	17	17	0	ANNUAL	LINE	5
582069.6	4199881	0.06464	17	17	0	ANNUAL	LINE	5
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582067.5	4199908	0.06157	17	17	0	ANNUAL	LINE	5
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582067.5	4199936	0.05862	17	17	0	ANNUAL	LINE	5
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581966.4	4199933	0.05699	17	17	0	ANNUAL	LINE	5
581942.9	4199933	0.05648	17	17	0	ANNUAL	LINE	5
581918.2	4199932	0.05598	17	17	0	ANNUAL	LINE	5
581896	4199934	0.05519	17	17	0	ANNUAL	LINE	5
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581851.5	4199933	0.05413	17	17	0	ANNUAL	LINE	5
581827.8	4199931	0.05363	17	17	0	ANNUAL	LINE	5
581790.3	4199930	0.05263	17	17	0	ANNUAL	LINE	5
581789.8	4199913	0.05406	17	17	0	ANNUAL	LINE	5
581789.5	4199899	0.05535	17	17	0	ANNUAL	LINE	5
581788.7	4199871	0.05787	17	17	0	ANNUAL	LINE	5
581788.5	4199843	0.06061	17.76	17.76	0	ANNUAL	LINE	5
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581679.2	4199322	0.16045	24	24	0	ANNUAL	LINE	5
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581703.9	4199226	0.22595	24	24	0	ANNUAL	LINE	5
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581703.5	4199176	0.26227	24.99	24.99	0	ANNUAL	LINE	5
581704.8	4199151	0.28568	25	25	0	ANNUAL	LINE	5
581706.5	4199128	0.30948	25	25	0	ANNUAL	LINE	5
581704.6	4199104	0.3291	25	25	0	ANNUAL	LINE	5
581712.6	4199077	0.37322	25	25	0	ANNUAL	LINE	5
581608.9	4199107	0.20086	25	25	0	ANNUAL	LINE	5
581610.6	4199148	0.18996	25	25	0	ANNUAL	LINE	5
581627.8	4199140	0.20728	25	25	0	ANNUAL	LINE	5
581630.6	4199086	0.22961	25	25	0	ANNUAL	LINE	5
581661	4199076	0.27411	25	25	0	ANNUAL	LINE	5
581670.1	4199105	0.2721	25	25	0	ANNUAL	LINE	5
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581664.2	4199153	0.23663	25	25	0	ANNUAL	LINE	5
581632.1	4199169	0.19958	25	25	0	ANNUAL	LINE	5
581631.2	4199198	0.18812	24.26	24.26	0	ANNUAL	LINE	5
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581667.3	4199199	0.21432	24.23	24.23	0	ANNUAL	LINE	5
581662.3	4199252	0.18417	24	24	0	ANNUAL	LINE	5
581665.9	4199229	0.19787	24	24	0	ANNUAL	LINE	5
581592	4199340	0.12584	23	23	0	ANNUAL	LINE	5
581635	4199341	0.13902	23.02	23.02	0	ANNUAL	LINE	5
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581598	4199281	0.14329	23.41	23.41	0	ANNUAL	LINE	5
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581571.5	4199245	0.14144	23.66	23.66	0	ANNUAL	LINE	5
581554.6	4199223	0.1388	23.65	23.65	0	ANNUAL	LINE	5
581542.4	4199205	0.13639	24	24	0	ANNUAL	LINE	5
581526.4	4199190	0.13177	24	24	0	ANNUAL	LINE	5
581510.3	4199163	0.12844	23.95	23.95	0	ANNUAL	LINE	5
581495.5	4199148	0.12432	23.43	23.43	0	ANNUAL	LINE	5
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581465.8	4199103	0.11696	22.73	22.73	0	ANNUAL	LINE	5
581456.5	4199082	0.11552	22.08	22.08	0	ANNUAL	LINE	5
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581571.4	4199377	0.11203	22.92	22.92	0	ANNUAL	LINE	5
581593.4	4199379	0.11705	23	23	0	ANNUAL	LINE	5

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582040.66	4198789.3	282496.8594	21.56	21.56	0	ANNUAL	AREA	5
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582016.4	4198739.5	133734.332	22	22	0	ANNUAL	AREA	5
582006.7	4198726.23	110242.1783	22	22	0	ANNUAL	AREA	5
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581991.38	4198701.2	78916.38807	21.99	21.99	0	ANNUAL	AREA	5
581983.72	4198688.94	67597.92761	22	22	0	ANNUAL	AREA	5
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582048.58	4198714.99	111217.3459	22	22	0	ANNUAL	AREA	5
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582022.79	4198673.88	68892.06187	22	22	0	ANNUAL	AREA	5
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581946.43	4198612.33	30843.20792	22	22	0	ANNUAL	AREA	5
581953.84	4198630.72	36254.32943	22	22	0	ANNUAL	AREA	5
581942.35	4198647.32	38896.7104	22	22	0	ANNUAL	AREA	5
581986.27	4198606.97	35221.60637	22	22	0	ANNUAL	AREA	5
581928.3	4198584.24	23975.16055	22.78	22.78	0	ANNUAL	AREA	5
581975.03	4198542.11	22667.23382	23	23	0	ANNUAL	AREA	5
582042.19	4198545.68	29222.27276	23	23	0	ANNUAL	AREA	5
582008.23	4198546.19	26160.51404	23	23	0	ANNUAL	AREA	5
582064.92	4198566.62	35566.63153	23	23	0	ANNUAL	AREA	5
582066.71	4198596.25	43307.82239	22.33	22.33	0	ANNUAL	AREA	5
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582062.62	4198644.76	61065.28247	22	22	0	ANNUAL	AREA	5
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582134.89	4198728.01	136683.0656	22	22	0	ANNUAL	AREA	5
582166.04	4198733.63	139593.3756	22	22	0	ANNUAL	AREA	5
582197.96	4198728.27	129013.9319	22	22	0	ANNUAL	AREA	5
582164	4198693.79	103281.9147	22	22	0	ANNUAL	AREA	5
582187.49	4198692.77	101954.9896	22.05	22.05	0	ANNUAL	AREA	5
582192.09	4198657.79	80433.53138	22.72	22.72	0	ANNUAL	AREA	5
582142.81	4198666.73	83569.81831	22	22	0	ANNUAL	AREA	5
582127.74	4198640.17	67552.9417	22.4	22.4	0	ANNUAL	AREA	5
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582105.78	4198546.96	35113.57778	23	23	0	ANNUAL	AREA	5
582138.21	4198541.09	36381.38288	23	23	0	ANNUAL	AREA	5
582165.02	4198546.96	39439.19124	23	23	0	ANNUAL	AREA	5
582184.94	4198549.77	41245.48969	23	23	0	ANNUAL	AREA	5
582185.2	4198576.33	48036.74926	23	23	0	ANNUAL	AREA	5
582179.83	4198596.76	53986.19442	23	23	0	ANNUAL	AREA	5
582192.86	4198606.46	57989.87561	23	23	0	ANNUAL	AREA	5
582188.52	4198632	67887.59595	23	23	0	ANNUAL	AREA	5
582243.82	4198693.19	97946.67739	22.1	22.1	0	ANNUAL	AREA	5
582232.49	4198652.28	77526.47916	23	23	0	ANNUAL	AREA	5
582232.93	4198626.24	66446.6898	23	23	0	ANNUAL	AREA	5
582263.57	4198621.43	64572.2524	23	23	0	ANNUAL	AREA	5
582290.61	4198620.83	63864.99939	23	23	0	ANNUAL	AREA	5
582320.35	4198617.23	61815.08132	23	23	0	ANNUAL	AREA	5
582273.18	4198689.63	92876.87416	22.46	22.46	0	ANNUAL	AREA	5
582299.62	4198683.62	87122.12631	23	23	0	ANNUAL	AREA	5
582335.68	4198692.34	85961.0936	23	23	0	ANNUAL	AREA	5
582367.52	4198697.75	83135.1706	22.94	22.94	0	ANNUAL	AREA	5
582397.57	4198696.24	78157.92683	22.99	22.99	0	ANNUAL	AREA	5
582426.71	4198694.14	73383.85303	23	23	0	ANNUAL	AREA	5
582348.9	4198620.83	61604.41426	23	23	0	ANNUAL	AREA	5
582358.21	4198636.45	65414.95129	23	23	0	ANNUAL	AREA	5
582390.66	4198643.37	64827.40741	23	23	0	ANNUAL	AREA	5
582385.25	4198619.33	59232.52535	23	23	0	ANNUAL	AREA	5
582416.5	4198622.94	58082.62254	23	23	0	ANNUAL	AREA	5
582410.49	4198646.97	64014.7111	23	23	0	ANNUAL	AREA	5
582438.43	4198622.94	56568.45853	23	23	0	ANNUAL	AREA	5
582456.75	4198691.44	68608.94287	22.63	22.63	0	ANNUAL	AREA	5
582477.18	4198619.33	53160.8151	23	23	0	ANNUAL	AREA	5
582511.43	4198618.73	50626.53698	23	23	0	ANNUAL	AREA	5
582510.23	4198634.05	53007.44426	23	23	0	ANNUAL	AREA	5
582509.93	4198651.18	55631.52833	23	23	0	ANNUAL	AREA	5
581902.98	4198598.62	23470.94308	23	23	0	ANNUAL	AREA	5
581906.89	4198572.18	20525.35896	23	23	0	ANNUAL	AREA	5
581884.95	4198549.05	16759.14472	23	23	0	ANNUAL	AREA	5
581871.43	4198537.93	15176.41386	23.27	23.27	0	ANNUAL	AREA	5
581905.99	4198532.52	16715.5062	23.42	23.42	0	ANNUAL	AREA	5
581931.22	4198535.53	18589.11083	23.03	23.03	0	ANNUAL	AREA	5
581927.62	4198551.45	19916.09705	23	23	0	ANNUAL	AREA	5
581962.18	4198819.02	396918.4231	20.95	20.95	0	ANNUAL	AREA	5
581951.29	4198798.36	240341.8985	20.83	20.83	0	ANNUAL	AREA	5
581936.16	4198781.56	163616.1449	21	21	0	ANNUAL	AREA	5
581914.94	4198831.39	389362.4021	20	20	0	ANNUAL	AREA	5
581897.6	4198797.8	161986.0986	20	20	0	ANNUAL	AREA	5
581925.09	4198758.68	107850.9811	20.71	20.71	0	ANNUAL	AREA	5
581913.65	4198739.67	78609.43557	20.7	20.7	0	ANNUAL	AREA	5
581906.38	4198718.93	59873.19112	21	21	0	ANNUAL	AREA	5
581892.17	4198698.08	44860.95546	20.62	20.62	0	ANNUAL	AREA	5
581877.22	4198672.61	33375.43993	20.12	20.12	0	ANNUAL	AREA	5
582154.8	4198748.87	159555.391	22	22	0	ANNUAL	AREA	5
582195.72	4198754.95	154929.2745	22	22	0	ANNUAL	AREA	5
582131.18	4198799.38	255964.0245	22	22	0	ANNUAL	AREA	5
582154.56	4198776.7	198947.3474	22	22	0	ANNUAL	AREA	5
582162.52	4198792.6	219040.7863	22	22	0	ANNUAL	AREA	5
582183.8	4198789.79	201011.518	22	22	0	ANNUAL	AREA	5
582245.07	4198793.53	168997.4134	22	22	0	ANNUAL	AREA	5
582242.73	4198770.15	151307.7997	22	22	0	ANNUAL	AREA	5
582239.22	4198737.41	127442.4839	22	22	0	ANNUAL	AREA	5
582263.08	4198732.96	118693.1	22	22	0	ANNUAL	AREA	5
582293.95	4198732.73	111294.5855	22	22	0	ANNUAL	AREA	5
582325.05	4198733.66	104459.7186	22	22	0	ANNUAL	AREA	5
582360.83	4198740.21	98622.32268	22	22	0	ANNUAL	AREA	5
582373.7	4198769.21	104915.6845	22	22	0	ANNUAL	AREA	5
582414.64	4198754.36	90084.57337	22	22	0	ANNUAL	AREA	5
582417.92	4198740.33	85935.24551	22	22	0	ANNUAL	AREA	5
582427.51	4198731.68	81952.67644	22	22	0	ANNUAL	AREA	5
582444.11	4198734.72	79449.27774	22	22	0	ANNUAL	AREA	5
581874.14	4198759.36	74468.90045	20	20	0	ANNUAL	AREA	5
581866.37	4198738.32	55335.53436	20.1	20.1	0	ANNUAL	AREA	5
581852.13	4198711.77	39183.16721	20	20	0	ANNUAL	AREA	5
581840.8	4198717.93	38345.34221	20.1	20.1	0	ANNUAL	AREA	5
581827.2	4198720.51	35974.90721	20.55	20.55	0	ANNUAL	AREA	5
581845.33	4198763.25	61843.63372	20.95	20.95	0	ANNUAL	AREA	5
581826.88	4198765.84	54152.74584	21.18	21.18	0	ANNUAL	AREA	5
581801.63	4198771.02	45749.34919	21.7	21.7	0	ANNUAL	AREA	5
581802.28	4198732.17	33682.0207	21.38	21.38	0	ANNUAL	AREA	5
581779.94	4198736.05	30393.80152	22.13	22.13	0	ANNUAL	AREA	5
581778.32	4198769.72	37817.7446	22.18	22.18	0	ANNUAL	AREA	5
581754.69	4198773.61	33324.4111	22.97	22.97	0	ANNUAL	AREA	5
581759.22	4198737.35	27491.653	22.82	22.82	0	ANNUAL	AREA	5
581733.65	4198739.29	24446.62044	23	23	0	ANNUAL	AREA	5
581728.14	4198773.61	28285.41269	23	23	0	ANNUAL	AREA	5
581865.08	4198655.12	27728.91596	20.26	20.26	0	ANNUAL	AREA	5
581853.1	4198633.43	22909.36648	20.49	20.49	0	ANNUAL	AREA	5
581838.53	4198611.74	19206.57507	21.51	21.51	0	ANNUAL	AREA	5
581829.47	4198680.05	27335.6393	20.47	20.47	0	ANNUAL	AREA	5
581818.14	4198656.74	22522.82489	20.85	20.85	0	ANNUAL	AREA	5
581805.51	4198636.99	19223.4843	21	21	0	ANNUAL	AREA	5
581784.47	4198649.62	18932.74619	21	21	0	ANNUAL	AREA	5
581802.28	4198687.17	25094.80575	21.27	21.27	0	ANNUAL	AREA	5
581777.03	4198693.65	23302.61588	22.14	22.14	0	ANNUAL	AREA	5
581758.25	4198657.39	17967.92031	21.85	21.85	0	ANNUAL	AREA	5

582047.1	4198811	17.37809	21.78	21.78	0	ANNUAL	LINE	5
582040.7	4198789	7.88546	21.56	21.56	0	ANNUAL	LINE	5
582030.7	4198772	4.96558	21.58	21.58	0	ANNUAL	LINE	5
582023.8	4198757	3.48082	21.98	21.98	0	ANNUAL	LINE	5
582016.4	4198740	2.50821	22	22	0	ANNUAL	LINE	5
582006.7	4198726	1.96646	22	22	0	ANNUAL	LINE	5
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581991.4	4198701	1.34013	21.99	21.99	0	ANNUAL	LINE	5
581983.7	4198689	1.13603	22	22	0	ANNUAL	LINE	5
581970.4	4198671	0.90397	22	22	0	ANNUAL	LINE	5
582085.6	4198769	6.00879	22	22	0	ANNUAL	LINE	5
582072.8	4198754	4.19791	22	22	0	ANNUAL	LINE	5
582058.5	4198736	2.879	22	22	0	ANNUAL	LINE	5
582048.6	4198715	2.04909	22	22	0	ANNUAL	LINE	5
582034	4198694	1.48638	22	22	0	ANNUAL	LINE	5
582022.8	4198674	1.15048	22	22	0	ANNUAL	LINE	5
582012.3	4198656	0.93313	22	22	0	ANNUAL	LINE	5
582027.9	4198651	0.9456	22	22	0	ANNUAL	LINE	5
582000.1	4198634	0.74335	22	22	0	ANNUAL	LINE	5
581962.8	4198653	0.7555	22	22	0	ANNUAL	LINE	5
581946.4	4198612	0.53648	22	22	0	ANNUAL	LINE	5
581953.8	4198631	0.62071	22	22	0	ANNUAL	LINE	5
581942.4	4198647	0.67003	22	22	0	ANNUAL	LINE	5
581986.3	4198607	0.58696	22	22	0	ANNUAL	LINE	5
581928.3	4198584	0.42537	22.78	22.78	0	ANNUAL	LINE	5
581975	4198542	0.38239	23	23	0	ANNUAL	LINE	5
582042.2	4198546	0.45615	23	23	0	ANNUAL	LINE	5
582008.2	4198546	0.42241	23	23	0	ANNUAL	LINE	5
582064.9	4198567	0.54792	23	23	0	ANNUAL	LINE	5
582066.7	4198596	0.68467	22.33	22.33	0	ANNUAL	LINE	5
582043.7	4198618	0.75836	22	22	0	ANNUAL	LINE	5
582074.4	4198636	0.96596	22	22	0	ANNUAL	LINE	5
582087.1	4198658	1.2248	22	22	0	ANNUAL	LINE	5
582066.7	4198625	0.85655	22	22	0	ANNUAL	LINE	5
582062.6	4198645	1.00602	22	22	0	ANNUAL	LINE	5
582103.5	4198683	1.69066	22	22	0	ANNUAL	LINE	5
582117.3	4198708	2.37848	22	22	0	ANNUAL	LINE	5
582134.9	4198728	3.32656	22	22	0	ANNUAL	LINE	5
582166	4198734	3.91505	22	22	0	ANNUAL	LINE	5
582198	4198728	3.80463	22	22	0	ANNUAL	LINE	5
582164	4198694	2.23941	22	22	0	ANNUAL	LINE	5
582187.5	4198693	2.31554	22.05	22.05	0	ANNUAL	LINE	5
582192.1	4198658	1.57704	22.72	22.72	0	ANNUAL	LINE	5
582142.8	4198667	1.56908	22	22	0	ANNUAL	LINE	5
582127.7	4198640	1.15912	22.4	22.4	0	ANNUAL	LINE	5
582122.1	4198612	0.88731	22.85	22.85	0	ANNUAL	LINE	5
582107.1	4198574	0.63873	23	23	0	ANNUAL	LINE	5
582120.1	4198553	0.56748	23	23	0	ANNUAL	LINE	5
582105.8	4198547	0.53065	23	23	0	ANNUAL	LINE	5
582138.2	4198541	0.54659	23	23	0	ANNUAL	LINE	5
582165	4198547	0.59825	23	23	0	ANNUAL	LINE	5
582184.9	4198550	0.63225	23	23	0	ANNUAL	LINE	5
582185.2	4198576	0.7642	23	23	0	ANNUAL	LINE	5
582179.8	4198597	0.88532	23	23	0	ANNUAL	LINE	5
582192.9	4198606	0.98174	23	23	0	ANNUAL	LINE	5
582188.5	4198632	1.21563	23	23	0	ANNUAL	LINE	5
582243.8	4198693	2.50562	22.1	22.1	0	ANNUAL	LINE	5
582232.5	4198652	1.58205	23	23	0	ANNUAL	LINE	5
582232.9	4198626	1.24233	23	23	0	ANNUAL	LINE	5
582263.6	4198621	1.23874	23	23	0	ANNUAL	LINE	5
582290.6	4198621	1.26625	23	23	0	ANNUAL	LINE	5
582320.4	4198617	1.25636	23	23	0	ANNUAL	LINE	5
582273.2	4198690	2.44902	22.46	22.46	0	ANNUAL	LINE	5
582299.6	4198684	2.29821	23	23	0	ANNUAL	LINE	5
582335.7	4198692	2.5123	23	23	0	ANNUAL	LINE	5
582367.5	4198698	2.6103	22.94	22.94	0	ANNUAL	LINE	5
582397.6	4198696	2.50444	22.99	22.99	0	ANNUAL	LINE	5
582426.7	4198694	2.38016	23	23	0	ANNUAL	LINE	5
582348.9	4198621	1.31142	23	23	0	ANNUAL	LINE	5
582358.2	4198636	1.49366	23	23	0	ANNUAL	LINE	5
582390.7	4198643	1.57853	23	23	0	ANNUAL	LINE	5
582385.3	4198619	1.30508	23	23	0	ANNUAL	LINE	5
582416.5	4198623	1.3378	23	23	0	ANNUAL	LINE	5
582410.5	4198647	1.61461	23	23	0	ANNUAL	LINE	5
582438.4	4198623	1.32907	23	23	0	ANNUAL	LINE	5
582456.8	4198691	2.24183	22.63	22.63	0	ANNUAL	LINE	5
582477.2	4198619	1.2719	23	23	0	ANNUAL	LINE	5
582511.4	4198619	1.23854	23	23	0	ANNUAL	LINE	5
582510.2	4198634	1.37128	23	23	0	ANNUAL	LINE	5
582509.9	4198651	1.54167	23	23	0	ANNUAL	LINE	5
581903	4198599	0.42559	23	23	0	ANNUAL	LINE	5
581906.9	4198572	0.37588	23	23	0	ANNUAL	LINE	5
581885	4198549	0.31932	23	23	0	ANNUAL	LINE	5
581871.4	4198538	0.29364	23.27	23.27	0	ANNUAL	LINE	5
581906	4198533	0.31017	23.42	23.42	0	ANNUAL	LINE	5
581931.2	4198536	0.33474	23.03	23.03	0	ANNUAL	LINE	5
581927.6	4198551	0.35803	23	23	0	ANNUAL	LINE	5
581962.2	4198819	12.44667	20.95	20.95	0	ANNUAL	LINE	5
581951.3	4198798	5.53985	20.83	20.83	0	ANNUAL	LINE	5
581936.2	4198782	3.24024	21	21	0	ANNUAL	LINE	5
581914.9	4198831	12.70718	20	20	0	ANNUAL	LINE	5
581897.6	4198798	3.23281	20	20	0	ANNUAL	LINE	5
581925.1	4198759	1.9937	20.71	20.71	0	ANNUAL	LINE	5
581913.7	4198740	1.42412	20.7	20.7	0	ANNUAL	LINE	5
581906.4	4198719	1.07501	21	21	0	ANNUAL	LINE	5
581892.2	4198698	0.8266	20.62	20.62	0	ANNUAL	LINE	5
581877.2	4198673	0.63454	20.12	20.12	0	ANNUAL	LINE	5
582154.8	4198749	4.96873	22	22	0	ANNUAL	LINE	5
582195.7	4198755	6.04447	22	22	0	ANNUAL	LINE	5
582131.2	4198799	19.25391	22	22	0	ANNUAL	LINE	5
582154.6	4198777	9.31099	22	22	0	ANNUAL	LINE	5
582162.5	4198793	16.5484	22	22	0	ANNUAL	LINE	5
582183.8	4198790	15.72029	22	22	0	ANNUAL	LINE	5
582245.1	4198794	17.50002	22	22	0	ANNUAL	LINE	5
582242.7	4198770	8.58585	22	22	0	ANNUAL	LINE	5
582239.2	4198737	4.55814	22	22	0	ANNUAL	LINE	5
582263.1	4198733	4.26897	22	22	0	ANNUAL	LINE	5
582294	4198733	4.20712	22	22	0	ANNUAL	LINE	5
582325.1	4198734	4.14501	22	22	0	ANNUAL	LINE	5
582360.8	4198740	4.29626	22	22	0	ANNUAL	LINE	5
582373.7	4198769	6.30847	22	22	0	ANNUAL	LINE	5
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581866.4	4198738	1.03198	20.1	20.1	0	ANNUAL	LINE	5
581852.1	4198712	0.75065	20	20	0	ANNUAL	LINE	5
581840.8	4198718	0.73838	20.1	20.1	0	ANNUAL	LINE	5
581827.2	4198721	0.69472	20.55	20.55	0	ANNUAL	LINE	5
581845.3	4198763	1.12408	20.95	20.95	0	ANNUAL	LINE	5
581826.9	4198766	0.97606	21.18	21.18	0	ANNUAL	LINE	5
581801.6	4198771	0.80186	21.7	21.7	0	ANNUAL	LINE	5
581802.3	4198732	0.63395	21.38	21.38	0	ANNUAL	LINE	5
581779.9	4198736	0.55069	22.13	22.13	0	ANNUAL	LINE	5
581778.3	4198770	0.64652	22.18	22.18	0	ANNUAL	LINE	5
581754.7	4198774	0.53638	22.97	22.97	0	ANNUAL	LINE	5
581759.2	4198737	0.47788	22.82	22.82	0	ANNUAL	LINE	5
581733.7	4198739	0.40952	23	23	0	ANNUAL	LINE	5
581728.1	4198774	0.44215	23	23	0	ANNUAL	LINE	5
581865.1	4198655	0.53818	20.26	20.26	0	ANNUAL	LINE	5
581853.1	4198633	0.45357	20.49	20.49	0	ANNUAL	LINE	5
581838.5	4198612	0.38271	21.51	21.51	0	ANNUAL	LINE	5
581829.5	4198680	0.53954	20.47	20.47	0	ANNUAL	LINE	5
581818.1	4198657	0.44927	20.85	20.85	0	ANNUAL	LINE	5
581805.5	4198637	0.38683	21	21	0	ANNUAL	LINE	5
581784.5	4198650	0.3775	21	21	0	ANNUAL	LINE	5
581802.3	4198687	0.48992	21.27	21.27	0	ANNUAL	LINE	5
581777	4198694	0.4396	22.14	22.14	0	ANNUAL	LINE	5
581758.3	4198657	0.34615	21.85	21.85	0	ANNUAL	LINE	5

581754.69	4198698.83	21850.13738	22.97	22.97	0	ANNUAL	AREA	5
581733.97	4198618.22	14054.88433	22.66	22.66	0	ANNUAL	AREA	5
581755.34	4198606.24	14183.18782	22	22	0	ANNUAL	AREA	5
581785.77	4198597.18	14925.2639	21.95	21.95	0	ANNUAL	AREA	5
581728.47	4198580.67	11955.47425	22.98	22.98	0	ANNUAL	AREA	5
581752.75	4198582.93	12832.35033	22.78	22.78	0	ANNUAL	AREA	5
581771.2	4198572.25	12903.29314	22.49	22.49	0	ANNUAL	AREA	5
581829.15	4198591.35	16752.00159	21.75	21.75	0	ANNUAL	AREA	5
581815.23	4198568.36	14402.7523	22.01	22.01	0	ANNUAL	AREA	5
581803.9	4198547.65	12770.87292	22.31	22.31	0	ANNUAL	AREA	5
581784.47	4198512.36	10615.0105	23	23	0	ANNUAL	AREA	5
581773.47	4198496.17	9766.1408	23	23	0	ANNUAL	AREA	5
581731.06	4198542.47	10472.32113	23.76	23.76	0	ANNUAL	AREA	5
581754.04	4198531.78	10601.71353	23	23	0	ANNUAL	AREA	5
581731.38	4198512.04	9428.57836	23.74	23.74	0	ANNUAL	AREA	5
581704.19	4198542.47	9871.91756	24	24	0	ANNUAL	AREA	5
581707.43	4198510.42	8933.07128	24	24	0	ANNUAL	AREA	5
581755.98	4198474.48	8744.00978	23	23	0	ANNUAL	AREA	5
581733.65	4198471.57	8292.64576	23.35	23.35	0	ANNUAL	AREA	5
581706.78	4198468.66	7820.19254	23.75	23.75	0	ANNUAL	AREA	5
581891.05	4198837.87	381103.3843	20	20	0	ANNUAL	AREA	5
581871.63	4198803.21	142003.646	20.07	20.07	0	ANNUAL	AREA	5
581865.53	4198840.15	322579.701	20.27	20.27	0	ANNUAL	AREA	5
581843.82	4198809.68	120408.8645	21	21	0	ANNUAL	AREA	5
581841.92	4198842.06	262798.6494	21.06	21.06	0	ANNUAL	AREA	5
581820.59	4198842.82	193395.3653	21.77	21.77	0	ANNUAL	AREA	5
581818.3	4198808.54	85673.11526	21.85	21.85	0	ANNUAL	AREA	5
581792.02	4198847.39	104013.0848	22	22	0	ANNUAL	AREA	5
581790.12	4198808.92	59160.12616	22	22	0	ANNUAL	AREA	5
581768.41	4198847.77	65576.39095	22	22	0	ANNUAL	AREA	5
581773.74	4198811.97	50714.09244	22.05	22.05	0	ANNUAL	AREA	5
581747.46	4198847.01	49747.1805	22	22	0	ANNUAL	AREA	5
581752.03	4198816.54	42882.94933	22	22	0	ANNUAL	AREA	5
581722.7	4198848.15	38500.83392	22	22	0	ANNUAL	AREA	5
581721.18	4198813.49	32686.01523	22.16	22.16	0	ANNUAL	AREA	5
581488.27	4198814.22	9097.25428	23.06	23.06	0	ANNUAL	AREA	5
581508.99	4198814.22	9919.2499	23.06	23.06	0	ANNUAL	AREA	5
581535.86	4198843.36	11512.07758	23	23	0	ANNUAL	AREA	5
581534.56	4198814.54	11102.21328	23.05	23.05	0	ANNUAL	AREA	5
581559.82	4198843.68	12921.24478	22.51	22.51	0	ANNUAL	AREA	5
581557.87	4198816.81	12406.1007	22.99	22.99	0	ANNUAL	AREA	5
581578.92	4198845.63	14265.20417	22.01	22.01	0	ANNUAL	AREA	5
581582.8	4198817.78	14047.91015	22.94	22.94	0	ANNUAL	AREA	5
581609.03	4198845.63	16840.61798	22.01	22.01	0	ANNUAL	AREA	5
581604.17	4198816.49	15677.0206	22.99	22.99	0	ANNUAL	AREA	5
581629.75	4198848.22	19135.7941	22	22	0	ANNUAL	AREA	5
581631.69	4198813.57	18163.82893	23.08	23.08	0	ANNUAL	AREA	5
581654.68	4198847.89	22455.72433	22	22	0	ANNUAL	AREA	5
581683.82	4198850.48	27855.75762	22	22	0	ANNUAL	AREA	5
581655.97	4198813.9	20995.25707	23.02	23.02	0	ANNUAL	AREA	5
581680.26	4198811.95	24382.04248	23	23	0	ANNUAL	AREA	5
581393.08	4198818.11	6408.72133	23.02	23.02	0	ANNUAL	AREA	5
581395.99	4198803.86	6420.26381	23.41	23.41	0	ANNUAL	AREA	5
581381.75	4198783.14	6049.74038	24	24	0	ANNUAL	AREA	5
581399.23	4198777.96	6383.18119	24	24	0	ANNUAL	AREA	5
581434.84	4198768.25	7153.09749	24	24	0	ANNUAL	AREA	5
581436.79	4198731.34	6959.14556	24	24	0	ANNUAL	AREA	5
581459.77	4198768.89	7826.37068	24	24	0	ANNUAL	AREA	5
581460.42	4198735.87	7584.2548	24	24	0	ANNUAL	AREA	5
581487.62	4198770.51	8705.9705	24	24	0	ANNUAL	AREA	5
581490.21	4198735.22	8436.82672	24.15	24.15	0	ANNUAL	AREA	5
581514.49	4198772.13	9703.13518	24	24	0	ANNUAL	AREA	5
581510.93	4198738.78	9165.27804	24.52	24.52	0	ANNUAL	AREA	5
581534.24	4198774.07	10559.12363	24	24	0	ANNUAL	AREA	5
581536.18	4198737.16	10087.10956	24.63	24.63	0	ANNUAL	AREA	5
581561.11	4198770.19	11792.64419	24	24	0	ANNUAL	AREA	5
581561.11	4198735.22	11112.72528	24.7	24.7	0	ANNUAL	AREA	5
581587.34	4198772.46	13336.62976	24	24	0	ANNUAL	AREA	5
581584.42	4198736.19	12262.41911	24.66	24.66	0	ANNUAL	AREA	5
581607.09	4198735.55	13490.30638	24.68	24.68	0	ANNUAL	AREA	5
581610	4198770.84	14804.91131	24	24	0	ANNUAL	AREA	5
581631.69	4198770.84	16481.25372	24	24	0	ANNUAL	AREA	5
581633.64	4198736.84	15213.64998	24.64	24.64	0	ANNUAL	AREA	5
581655.65	4198771.81	18682.85702	23.62	23.62	0	ANNUAL	AREA	5
581660.18	4198735.22	17048.80682	24.08	24.08	0	ANNUAL	AREA	5
581678.64	4198770.19	21005.99826	23.27	23.27	0	ANNUAL	AREA	5
581682.2	4198736.52	18943.29599	23.79	23.79	0	ANNUAL	AREA	5
581704.54	4198770.84	24311.86016	23	23	0	ANNUAL	AREA	5
581710.69	4198737.81	21744.37999	23.26	23.26	0	ANNUAL	AREA	5
581442.03	4198693.64	6805.89138	25.03	25.03	0	ANNUAL	AREA	5
581438.18	4198659.51	6452.39692	25.62	25.62	0	ANNUAL	AREA	5
581467.08	4198694.19	7391.39916	25	25	0	ANNUAL	AREA	5
581465.15	4198661.44	7027.51818	25.15	25.15	0	ANNUAL	AREA	5
581488.54	4198696.39	7968.95813	24.99	24.99	0	ANNUAL	AREA	5
581487.99	4198658.96	7520.94936	25.24	25.24	0	ANNUAL	AREA	5
581507.8	4198691.71	8454.57026	25	25	0	ANNUAL	AREA	5
581533.12	4198697.21	9328.03872	25	25	0	ANNUAL	AREA	5
581563.67	4198697.21	10424.39959	25	25	0	ANNUAL	AREA	5
581587.89	4198692.53	11282.24126	25	25	0	ANNUAL	AREA	5
581609.63	4198696.11	12347.77248	25	25	0	ANNUAL	AREA	5
581635.5	4198698.04	13703.4533	24.94	24.94	0	ANNUAL	AREA	5
581515.24	4198659.51	8210.44856	25.22	25.22	0	ANNUAL	AREA	5
581539.18	4198662.81	8930.32712	25.11	25.11	0	ANNUAL	AREA	5
581560.37	4198661.71	9555.05082	25.06	25.06	0	ANNUAL	AREA	5
581586.79	4198658.96	10360.24106	25	25	0	ANNUAL	AREA	5
581608.8	4198658.68	11132.68573	25	25	0	ANNUAL	AREA	5
581635.5	4198659.79	12197.6113	24.94	24.94	0	ANNUAL	AREA	5
581706.22	4198697.21	17907.79234	23.58	23.58	0	ANNUAL	AREA	5
581682.56	4198698.31	16427.225	24	24	0	ANNUAL	AREA	5
581663.29	4198696.94	15171.45812	24.01	24.01	0	ANNUAL	AREA	5
581661.92	4198659.79	13286.43879	24.06	24.06	0	ANNUAL	AREA	5
581683.66	4198658.68	14207.65839	24	24	0	ANNUAL	AREA	5
581710.08	4198661.16	15622.67369	23.45	23.45	0	ANNUAL	AREA	5
581730.72	4198697.21	19668.54018	23	23	0	ANNUAL	AREA	5
581730.72	4198661.99	16758.61181	22.77	22.77	0	ANNUAL	AREA	5
581713.9	4198622.41	13525.42979	23.33	23.33	0	ANNUAL	AREA	5
581706.15	4198588.41	11654.35118	23.59	23.59	0	ANNUAL	AREA	5
581681.78	4198619.44	12241.87019	24	24	0	ANNUAL	AREA	5
581663.68	4198620.74	11690.89484	24	24	0	ANNUAL	AREA	5
581639.11	4198622.03	10967.67193	24.82	24.82	0	ANNUAL	AREA	5
581612.61	4198620.09	10112.70969	25	25	0	ANNUAL	AREA	5
581589.33	4198617.83	9403.64396	25	25	0	ANNUAL	AREA	5
581562.18	4198618.8	8718.71119	25.38	25.38	0	ANNUAL	AREA	5
581540.2	4198618.8	8184.71636	26	26	0	ANNUAL	AREA	5
581515.63	4198619.44	7633.04318	26	26	0	ANNUAL	AREA	5
581680.49	4198584.85	10808.38764	24	24	0	ANNUAL	AREA	5
581656.57	4198584.85	10195.79467	24.24	24.24	0	ANNUAL	AREA	5
581635.88	4198584.85	9696.7248	24.93	24.93	0	ANNUAL	AREA	5
581615.19	4198583.89	9183.52197	25	25	0	ANNUAL	AREA	5
581588.36	4198589.06	8699.63818	25	25	0	ANNUAL	AREA	5
581562.18	4198586.15	8070.01087	25.38	25.38	0	ANNUAL	AREA	5
581538.26	4198585.82	7579.40356	26	26	0	ANNUAL	AREA	5
581518.22	4198587.44	7215.62825	26	26	0	ANNUAL	AREA	5
581491.71	4198584.85	6695.5688	26	26	0	ANNUAL	AREA	5
581463.91	4198581.62	6191.34482	26	26	0	ANNUAL	AREA	5
581435.47	4198581.62	5751.36724	26.5	26.5	0	ANNUAL	AREA	5
581438.05	4198619.12	6113.2637	26	26	0	ANNUAL	AREA	5
581465.53	4198617.83	6593.25697	26	26	0	ANNUAL	AREA	5
581490.1	4198617.5	7067.46034	26	26	0	ANNUAL	AREA	5
581440.96	4198506.63	5167.21836	27	27	0	ANNUAL	AREA	5
581439.35	4198543.16	5470.10988	27	27	0	ANNUAL	AREA	5
581466.18	4198543.16	5827.97781	26.62	26.62	0	ANNUAL	AREA	5
581465.53	4198508.25	5463.55148	27	27	0	ANNUAL	AREA	5
581490.1	4198542.19	6152.31116	26.1	26.1	0	ANNUAL	AREA	5
581492.36	4198505.34	5751.40591	26.71	26.71	0	ANNUAL	AREA	5
581513.69	4198539.92	6467.64297	26	26	0	ANNUAL	AREA	5
581518.87	4198507.6	6106.06696	26	26	0	ANNUAL	AREA	5
581542.46	4198543.48	6962.00275	26	26	0	ANNUAL	AREA	5
581545.37	4198507.92	6452.93402	26	26	0	ANNUAL	AREA	5
581565.74	4198543.8	7344.81539	26	26	0	ANNUAL	AREA	5

581754.7	4198699	0.39521	22.97	22.97	0	ANNUAL	LINE	5
581734	4198618	0.26979	22.66	22.66	0	ANNUAL	LINE	5
581755.3	4198606	0.28118	22	22	0	ANNUAL	LINE	5
581785.8	4198597	0.30076	21.95	21.95	0	ANNUAL	LINE	5
581728.5	4198581	0.2335	22.98	22.98	0	ANNUAL	LINE	5
581752.8	4198583	0.25434	22.78	22.78	0	ANNUAL	LINE	5
581771.2	4198572	0.26014	22.49	22.49	0	ANNUAL	LINE	5
581829.2	4198591	0.337	21.75	21.75	0	ANNUAL	LINE	5
581815.2	4198568	0.29276	22.01	22.01	0	ANNUAL	LINE	5
581803.9	4198548	0.26111	22.31	22.31	0	ANNUAL	LINE	5
581784.5	4198512	0.218	23	23	0	ANNUAL	LINE	5
581773.5	4198496	0.20172	23	23	0	ANNUAL	LINE	5
581731.1	4198542	0.20762	23.76	23.76	0	ANNUAL	LINE	5
581754	4198532	0.21518	23	23	0	ANNUAL	LINE	5
581731.4	4198512	0.19008	23.74	23.74	0	ANNUAL	LINE	5
581704.2	4198542	0.19251	24	24	0	ANNUAL	LINE	5
581707.4	4198510	0.17794	24	24	0	ANNUAL	LINE	5
581756	4198474	0.1817	23	23	0	ANNUAL	LINE	5
581733.7	4198472	0.17107	23.35	23.35	0	ANNUAL	LINE	5
581706.8	4198469	0.15948	23.75	23.75	0	ANNUAL	LINE	5
581891.1	4198838	10.9214	20	20	0	ANNUAL	LINE	5
581871.6	4198803	2.61727	20.07	20.07	0	ANNUAL	LINE	5
581865.5	4198840	5.3417	20.27	20.27	0	ANNUAL	LINE	5
581843.8	4198810	1.89111	21	21	0	ANNUAL	LINE	5
581841.9	4198842	2.77324	21.06	21.06	0	ANNUAL	LINE	5
581820.6	4198843	1.70626	21.77	21.77	0	ANNUAL	LINE	5
581818.3	4198809	1.24997	21.85	21.85	0	ANNUAL	LINE	5
581792	4198847	1.10951	22	22	0	ANNUAL	LINE	5
581790.1	4198809	0.89457	22	22	0	ANNUAL	LINE	5
581768.4	4198848	0.82672	22	22	0	ANNUAL	LINE	5
581773.7	4198812	0.76337	22.05	22.05	0	ANNUAL	LINE	5
581747.5	4198847	0.65884	22	22	0	ANNUAL	LINE	5
581752	4198817	0.63061	22	22	0	ANNUAL	LINE	5
581722.7	4198848	0.52337	22	22	0	ANNUAL	LINE	5
581721.2	4198813	0.47792	22.16	22.16	0	ANNUAL	LINE	5
581488.3	4198814	0.13417	23.06	23.06	0	ANNUAL	LINE	5
581509	4198814	0.14534	23.06	23.06	0	ANNUAL	LINE	5
581535.9	4198843	0.16451	23	23	0	ANNUAL	LINE	5
581534.6	4198815	0.16141	23.05	23.05	0	ANNUAL	LINE	5
581559.8	4198844	0.18448	22.51	22.51	0	ANNUAL	LINE	5
581557.9	4198817	0.17907	22.99	22.99	0	ANNUAL	LINE	5
581578.9	4198846	0.20388	22.01	22.01	0	ANNUAL	LINE	5
581582.8	4198818	0.20148	22.94	22.94	0	ANNUAL	LINE	5
581609	4198846	0.23849	22.01	22.01	0	ANNUAL	LINE	5
581604.2	4198816	0.22384	22.99	22.99	0	ANNUAL	LINE	5
581629.8	4198848	0.26879	22	22	0	ANNUAL	LINE	5
581631.7	4198814	0.25852	23.08	23.08	0	ANNUAL	LINE	5
581654.7	4198848	0.31351	22	22	0	ANNUAL	LINE	5
581683.8	4198850	0.3843	22	22	0	ANNUAL	LINE	5
581656	4198814	0.2984	23.02	23.02	0	ANNUAL	LINE	5
581680.3	4198812	0.34744	23	23	0	ANNUAL	LINE	5
581393.1	4198818	0.09725	23.02	23.02	0	ANNUAL	LINE	5
581396	4198804	0.09741	23.41	23.41	0	ANNUAL	LINE	5
581381.8	4198783	0.09231	24	24	0	ANNUAL	LINE	5
581399.2	4198778	0.0971	24	24	0	ANNUAL	LINE	5
581434.8	4198768	0.10818	24	24	0	ANNUAL	LINE	5
581436.8	4198731	0.10686	24	24	0	ANNUAL	LINE	5
581459.8	4198769	0.11759	24	24	0	ANNUAL	LINE	5
581460.4	4198736	0.11572	24	24	0	ANNUAL	LINE	5
581487.6	4198771	0.12983	24	24	0	ANNUAL	LINE	5
581490.2	4198735	0.12801	24.15	24.15	0	ANNUAL	LINE	5
581514.5	4198772	0.14372	24	24	0	ANNUAL	LINE	5
581510.9	4198739	0.13794	24.52	24.52	0	ANNUAL	LINE	5
581534.2	4198774	0.15561	24	24	0	ANNUAL	LINE	5
581536.2	4198737	0.1515	24.63	24.63	0	ANNUAL	LINE	5
581561.1	4198770	0.17358	24	24	0	ANNUAL	LINE	5
581561.1	4198735	0.16697	24.7	24.7	0	ANNUAL	LINE	5
581587.3	4198772	0.19552	24	24	0	ANNUAL	LINE	5
581584.4	4198736	0.18444	24.66	24.66	0	ANNUAL	LINE	5
581607.1	4198736	0.20371	24.68	24.68	0	ANNUAL	LINE	5
581610	4198771	0.21737	24	24	0	ANNUAL	LINE	5
581631.7	4198771	0.24243	24	24	0	ANNUAL	LINE	5
581633.6	4198737	0.23118	24.64	24.64	0	ANNUAL	LINE	5
581655.7	4198772	0.27747	23.62	23.62	0	ANNUAL	LINE	5
581660.2	4198735	0.26458	24.08	24.08	0	ANNUAL	LINE	5
581678.6	4198770	0.31739	23.27	23.27	0	ANNUAL	LINE	5
581682.2	4198737	0.29886	23.79	23.79	0	ANNUAL	LINE	5
581704.5	4198771	0.37473	23	23	0	ANNUAL	LINE	5
581710.7	4198738	0.35419	23.26	23.26	0	ANNUAL	LINE	5
581442	4198694	0.10495	25.03	25.03	0	ANNUAL	LINE	5
581438.2	4198660	0.09833	25.62	25.62	0	ANNUAL	LINE	5
581467.1	4198694	0.11426	25	25	0	ANNUAL	LINE	5
581465.2	4198661	0.1094	25.15	25.15	0	ANNUAL	LINE	5
581488.5	4198696	0.12289	24.99	24.99	0	ANNUAL	LINE	5
581488	4198659	0.11724	25.24	25.24	0	ANNUAL	LINE	5
581507.8	4198692	0.13075	25	25	0	ANNUAL	LINE	5
581533.1	4198697	0.14386	25	25	0	ANNUAL	LINE	5
581563.7	4198697	0.16141	25	25	0	ANNUAL	LINE	5
581587.9	4198693	0.17651	25	25	0	ANNUAL	LINE	5
581609.6	4198696	0.19397	25	25	0	ANNUAL	LINE	5
581635.5	4198698	0.21755	24.94	24.94	0	ANNUAL	LINE	5
581515.2	4198660	0.12828	25.22	25.22	0	ANNUAL	LINE	5
581539.2	4198663	0.14016	25.11	25.11	0	ANNUAL	LINE	5
581560.4	4198662	0.15095	25.06	25.06	0	ANNUAL	LINE	5
581586.8	4198659	0.1674	25	25	0	ANNUAL	LINE	5
581608.8	4198659	0.18181	25	25	0	ANNUAL	LINE	5
581635.5	4198660	0.20221	24.94	24.94	0	ANNUAL	LINE	5
581706.2	4198697	0.30567	23.58	23.58	0	ANNUAL	LINE	5
581682.6	4198698	0.27231	24	24	0	ANNUAL	LINE	5
581663.3	4198697	0.2481	24.01	24.01	0	ANNUAL	LINE	5
581661.9	4198660	0.2265	24.06	24.06	0	ANNUAL	LINE	5
581683.7	4198659	0.24704	24	24	0	ANNUAL	LINE	5
581710.1	4198661	0.27947	23.45	23.45	0	ANNUAL	LINE	5
581730.7	4198697	0.34783	23	23	0	ANNUAL	LINE	5
581730.7	4198662	0.30884	22.77	22.77	0	ANNUAL	LINE	5
581713.9	4198622	0.25215	23.33	23.33	0	ANNUAL	LINE	5
581706.2	4198588	0.22125	23.59	23.59	0	ANNUAL	LINE	5
581681.8	4198619	0.22112	24	24	0	ANNUAL	LINE	5
581663.7	4198621	0.20792	24	24	0	ANNUAL	LINE	5
581639.1	4198622	0.18978	24.82	24.82	0	ANNUAL	LINE	5
581612.6	4198620	0.17204	25	25	0	ANNUAL	LINE	5
581589.3	4198618	0.15821	25	25	0	ANNUAL	LINE	5
581562.2	4198619	0.14183	25.38	25.38	0	ANNUAL	LINE	5
581540.2	4198619	0.12819	26	26	0	ANNUAL	LINE	5
581515.6	4198619	0.11873	26	26	0	ANNUAL	LINE	5
581680.5	4198585	0.20107	24	24	0	ANNUAL	LINE	5
581656.6	4198585	0.18595	24.24	24.24	0	ANNUAL	LINE	5
581635.9	4198585	0.17326	24.93	24.93	0	ANNUAL	LINE	5
581615.2	4198584	0.1619	25	25	0	ANNUAL	LINE	5
581588.4	4198589	0.15019	25	25	0	ANNUAL	LINE	5
581562.2	4198586	0.13505	25.38	25.38	0	ANNUAL	LINE	5
581538.3	4198586	0.12191	26	26	0	ANNUAL	LINE	5
581518.2	4198587	0.11511	26	26	0	ANNUAL	LINE	5
581491.7	4198585	0.10625	26	26	0	ANNUAL	LINE	5
581463.9	4198582	0.09792	26	26	0	ANNUAL	LINE	5
581435.5	4198582	0.08716	26.5	26.5	0	ANNUAL	LINE	5
581438.1	4198619	0.09432	26	26	0	ANNUAL	LINE	5
581465.5	4198618	0.10192	26	26	0	ANNUAL	LINE	5
581490.1	4198618	0.10957	26	26	0	ANNUAL	LINE	5
581441	4198507	0.07989	27	27	0	ANNUAL	LINE	5
581439.4	4198543	0.0828	27	27	0	ANNUAL	LINE	5
581466.2	4198543	0.09026	26.62	26.62	0	ANNUAL	LINE	5
581465.5	4198508	0.08494	27	27	0	ANNUAL	LINE	5
581490.1	4198542	0.09886	26.1	26.1	0	ANNUAL	LINE	5
581492.4	4198505	0.09169	26.71	26.71	0	ANNUAL	LINE	5
581513.7	4198540	0.10687	26	26	0	ANNUAL	LINE	5
581518.9	4198508	0.10362	26	26	0	ANNUAL	LINE	5
581542.5	4198543	0.11612	26	26	0	ANNUAL	LINE	5
581545.4	4198508	0.11085	26	26	0	ANNUAL	LINE	5
581565.7	4198544	0.12387	26	26	0	ANNUAL	LINE	5

581568	4198506.63	6733.47867	26	26	0	ANNUAL	AREA	5
581587.07	4198544.77	7721.92718	25.55	25.55	0	ANNUAL	AREA	5
581592.57	4198509.54	7123.12102	25.51	25.51	0	ANNUAL	AREA	5
581612.61	4198544.45	8163.39963	25	25	0	ANNUAL	AREA	5
581616.16	4198509.22	7455.80529	25.13	25.13	0	ANNUAL	AREA	5
581640.08	4198542.19	8606.06686	24.82	24.82	0	ANNUAL	AREA	5
581634.59	4198508.57	7714.13039	25	25	0	ANNUAL	AREA	5
581661.09	4198543.16	9021.09241	24.18	24.18	0	ANNUAL	AREA	5
581684.37	4198542.51	9460.35326	24.04	24.04	0	ANNUAL	AREA	5
581662.71	4198509.22	8161.84251	25	25	0	ANNUAL	AREA	5
581684.04	4198508.57	8483.21793	24.32	24.32	0	ANNUAL	AREA	5
581687.28	4198470.43	7595.35162	24.21	24.21	0	ANNUAL	AREA	5
581660.77	4198469.78	7240.78516	25	25	0	ANNUAL	AREA	5
581636.53	4198470.1	6946.87	25	25	0	ANNUAL	AREA	5
581610.99	4198468.81	6619.79525	25.76	25.76	0	ANNUAL	AREA	5
581587.39	4198469.46	6361.73962	26	26	0	ANNUAL	AREA	5
581563.8	4198467.84	6076.85013	26	26	0	ANNUAL	AREA	5
581538.58	4198466.55	5790.20599	26.11	26.11	0	ANNUAL	AREA	5
581515.63	4198468.16	5572.22748	26.56	26.56	0	ANNUAL	AREA	5
581490.74	4198468.16	5319.05894	26.91	26.91	0	ANNUAL	AREA	5
581465.53	4198470.43	5091.3215	27	27	0	ANNUAL	AREA	5
581441.61	4198468.49	4842.64816	27	27	0	ANNUAL	AREA	5
581444.52	4198434.55	4581.66656	27.22	27.22	0	ANNUAL	AREA	5
581444.2	4198419.68	4456.8504	27.32	27.32	0	ANNUAL	AREA	5
581468.76	4198424.2	4687.50483	27	27	0	ANNUAL	AREA	5
581494.95	4198425.5	4911.63849	27	27	0	ANNUAL	AREA	5
581442.58	4198386.06	4179.83305	27.58	27.58	0	ANNUAL	AREA	5
581497.21	4198378.95	4479.62095	27.31	27.31	0	ANNUAL	AREA	5
581437.73	4198333.69	3771.7087	28	28	0	ANNUAL	AREA	5
581466.5	4198345.33	4010.8125	28	28	0	ANNUAL	AREA	5
581497.21	4198353.41	4252.35546	27.55	27.55	0	ANNUAL	AREA	5
581497.21	4198338.22	4123.95375	27.55	27.55	0	ANNUAL	AREA	5
581564.44	4198366.34	4796.58548	26.31	26.31	0	ANNUAL	AREA	5
581568	4198344.36	4586.53901	26.78	26.78	0	ANNUAL	AREA	5
581595.47	4198430.02	5839.25281	26	26	0	ANNUAL	AREA	5
581595.8	4198398.02	5400.83147	26	26	0	ANNUAL	AREA	5
581596.77	4198366.66	5019.03013	26	26	0	ANNUAL	AREA	5
581594.18	4198347.27	4778.55933	26.63	26.63	0	ANNUAL	AREA	5
581630.39	4198356.97	5135.59136	26.03	26.03	0	ANNUAL	AREA	5
581648.49	4198334.99	4994.36914	26.02	26.02	0	ANNUAL	AREA	5
581653.98	4198371.51	5505.49077	25.27	25.27	0	ANNUAL	AREA	5
581661.09	4198395.76	5918.07945	25	25	0	ANNUAL	AREA	5
581669.5	4198418.71	6371.55623	25	25	0	ANNUAL	AREA	5
581696.33	4198430.67	6878.09702	24.76	24.76	0	ANNUAL	AREA	5
581711.52	4198421.94	6881.24032	24.49	24.49	0	ANNUAL	AREA	5
581710.11	4198393.87	6354.09667	25	25	0	ANNUAL	AREA	5
581696.4	4198371.22	5856.67425	25	25	0	ANNUAL	AREA	5
581689.4	4198341.1	5371.42358	25.12	25.12	0	ANNUAL	AREA	5
581717.42	4198363.05	5922.70753	25	25	0	ANNUAL	AREA	5
581694.3	4198357.21	5632.36976	25	25	0	ANNUAL	AREA	5
581758.3	4198343.43	6010.97827	24.81	24.81	0	ANNUAL	AREA	5
581782.35	4198344.36	6273.56296	23.78	23.78	0	ANNUAL	AREA	5
581808.98	4198343.66	6585.11647	24.8	24.8	0	ANNUAL	AREA	5
581781.42	4198370.76	6723.85267	23.14	23.14	0	ANNUAL	AREA	5
581786.09	4198394.81	7264.84297	23.16	23.16	0	ANNUAL	AREA	5
581806.17	4198363.52	6919.84157	24.52	24.52	0	ANNUAL	AREA	5
581806.88	4198388.27	7443.81219	24.54	24.54	0	ANNUAL	AREA	5
581805.94	4198413.96	8030.58319	24.64	24.64	0	ANNUAL	AREA	5
581811.55	4198435.92	8718.97991	24.9	24.9	0	ANNUAL	AREA	5
581833.73	4198431.01	9033.86364	25	25	0	ANNUAL	AREA	5
581854.75	4198430.31	9490.53423	25.32	25.32	0	ANNUAL	AREA	5
581869.7	4198433.35	9961.2281	25.66	25.66	0	ANNUAL	AREA	5
581888.62	4198435.92	10581.38581	25.67	25.67	0	ANNUAL	AREA	5
581906.37	4198434.52	11063.06929	25.72	25.72	0	ANNUAL	AREA	5
581841.44	4198394.34	8159.58732	25.92	25.92	0	ANNUAL	AREA	5
581860.83	4198397.15	8611.55378	25.98	25.98	0	ANNUAL	AREA	5
581841.44	4198378	7760.05765	25.92	25.92	0	ANNUAL	AREA	5
581865.26	4198377.53	8176.59181	26	26	0	ANNUAL	AREA	5
581840.51	4198357.21	7281.85969	25.89	25.89	0	ANNUAL	AREA	5
581863.16	4198359.55	7700.9578	26	26	0	ANNUAL	AREA	5
581841.21	4198338.06	6902.47326	25.92	25.92	0	ANNUAL	AREA	5
581862.93	4198340.86	7282.63561	26	26	0	ANNUAL	AREA	5
581906.37	4198397.15	9658.79695	26	26	0	ANNUAL	AREA	5
581909.64	4198382.43	9264.87346	26	26	0	ANNUAL	AREA	5
581907.3	4198359.55	8536.61492	26.22	26.22	0	ANNUAL	AREA	5
581906.84	4198343.9	8102.34937	26.74	26.74	0	ANNUAL	AREA	5
581932.29	4198397.15	10356.14158	26	26	0	ANNUAL	AREA	5
581935.1	4198380.57	9840.79171	26	26	0	ANNUAL	AREA	5
581930.19	4198362.58	9133.3556	26.12	26.12	0	ANNUAL	AREA	5
581932.76	4198344.83	8653.71647	26.71	26.71	0	ANNUAL	AREA	5
581929.72	4198435.92	11908.25484	25.67	25.67	0	ANNUAL	AREA	5
581943.97	4198436.38	12448.62994	25.66	25.66	0	ANNUAL	AREA	5
581837.31	4198465.46	10264.88105	24.93	24.93	0	ANNUAL	AREA	5
581842.48	4198492.29	11496.83674	24.75	24.75	0	ANNUAL	AREA	5
581865.44	4198494.56	12400.0195	24.72	24.72	0	ANNUAL	AREA	5
581892.27	4198491.97	13322.42711	24.31	24.31	0	ANNUAL	AREA	5
581926.54	4198493.59	14995.97896	23.81	23.81	0	ANNUAL	AREA	5
581953.69	4198499.08	16862.16778	23.57	23.57	0	ANNUAL	AREA	5
581973.09	4198437.01	13647.17983	25.44	25.44	0	ANNUAL	AREA	5
581986.67	4198435.4	14125.27971	25.16	25.16	0	ANNUAL	AREA	5
581958.22	4198468.05	14877.42647	24.6	24.6	0	ANNUAL	AREA	5
582003.8	4198436.69	14954.2053	24.88	24.88	0	ANNUAL	AREA	5
582031.28	4198438.63	16354.6208	24.58	24.58	0	ANNUAL	AREA	5
581985.05	4198493.91	18307.76095	23.74	23.74	0	ANNUAL	AREA	5
582018.02	4198494.88	20504.89666	23.71	23.71	0	ANNUAL	AREA	5
582050.35	4198492.94	22438.08641	23.77	23.77	0	ANNUAL	AREA	5
582073.31	4198496.17	24364.10426	23.66	23.66	0	ANNUAL	AREA	5
582114.69	4198497.14	27208.61317	23.63	23.63	0	ANNUAL	AREA	5
582137.32	4198500.7	29133.04083	23.51	23.51	0	ANNUAL	AREA	5
581975.87	4198396.09	11645.4745	26	26	0	ANNUAL	AREA	5
581973.54	4198373.2	10627.71903	26	26	0	ANNUAL	AREA	5
581993.01	4198394.15	12128.47861	26	26	0	ANNUAL	AREA	5
581990.67	4198371.26	11051.54327	26	26	0	ANNUAL	AREA	5
582010.14	4198398.35	12943.85476	25.92	25.92	0	ANNUAL	AREA	5
582018.47	4198369.64	11835.76675	26	26	0	ANNUAL	AREA	5
582029.66	4198393.05	13384.69996	25.82	25.82	0	ANNUAL	AREA	5
581979.88	4198342.62	9669.23415	26.78	26.78	0	ANNUAL	AREA	5
582001.54	4198343.26	10243.27722	26.76	26.76	0	ANNUAL	AREA	5
582027.4	4198344.23	10982.20574	26.73	26.73	0	ANNUAL	AREA	5
582049.06	4198442.83	17539.22304	24.44	24.44	0	ANNUAL	AREA	5
582049.06	4198417.62	15685.97108	25.04	25.04	0	ANNUAL	AREA	5
582049.38	4198392.08	14097.17283	25.26	25.26	0	ANNUAL	AREA	5
582051	4198365.89	12705.73553	26.01	26.01	0	ANNUAL	AREA	5
582050.03	4198345.2	11671.19481	26.7	26.7	0	ANNUAL	AREA	5
582093.03	4198444.77	19907.53506	24	24	0	ANNUAL	AREA	5
582093.03	4198419.56	17744.94773	24.07	24.07	0	ANNUAL	AREA	5
582093.35	4198394.02	15905.13119	24.44	24.44	0	ANNUAL	AREA	5
582094.97	4198367.83	14298.92539	25.9	25.9	0	ANNUAL	AREA	5
582094	4198347.14	13091.69366	26.63	26.63	0	ANNUAL	AREA	5
582165.44	4198494.56	29810.80867	23.92	23.92	0	ANNUAL	AREA	5
582181.9	4198498.76	31322.17481	24	24	0	ANNUAL	AREA	5
582171.58	4198461.58	25608.02668	24	24	0	ANNUAL	AREA	5
582210.05	4198468.37	28156.01721	24	24	0	ANNUAL	AREA	5
582219.1	4198507.49	34474.48144	24	24	0	ANNUAL	AREA	5
582261.13	4198479.04	31447.2948	24	24	0	ANNUAL	AREA	5
582263.39	4198523.33	38866.29674	24	24	0	ANNUAL	AREA	5
582235.92	4198546.93	42859.37636	23.07	23.07	0	ANNUAL	AREA	5
582242.37	4198578.41	50892.57897	23	23	0	ANNUAL	AREA	5
582258.34	4198569.66	48933.95799	23.18	23.18	0	ANNUAL	AREA	5
582267.85	4198582.59	52489.03519	23	23	0	ANNUAL	AREA	5
582285.73	4198581.07	52199.00028	23	23	0	ANNUAL	AREA	5
582317.3	4198580.69	51985.82104	23	23	0	ANNUAL	AREA	5
582353.06	4198579.17	51058.26205	23	23	0	ANNUAL	AREA	5
582380.82	4198578.41	50191.743	23	23	0	ANNUAL	AREA	5
582408.59	4198579.55	49518.42091	23	23	0	ANNUAL	AREA	5
582437.88	4198584.49	49267.38933	23	23	0	ANNUAL	AREA	5
582470.59	4198581.45	47253.12012	23	23	0	ANNUAL	AREA	5
582505.2	4198584.11	45946.76742	23	23	0	ANNUAL	AREA	5
582497.98	4198547.22	41108.98752	23.18	23.18	0	ANNUAL	AREA	5
582477.06	4198527.82	39121.23286	23.96	23.96	0	ANNUAL	AREA	5

581568	4198507	0.11715	26	26	0	ANNUAL	LINE	5
581587.1	4198545	0.13307	25.55	25.55	0	ANNUAL	LINE	5
581592.6	4198510	0.12813	25.51	25.51	0	ANNUAL	LINE	5
581612.6	4198544	0.14864	25	25	0	ANNUAL	LINE	5
581616.2	4198509	0.13822	25.13	25.13	0	ANNUAL	LINE	5
581640.1	4198542	0.16	24.82	24.82	0	ANNUAL	LINE	5
581634.6	4198509	0.14642	25	25	0	ANNUAL	LINE	5
581661.1	4198543	0.17082	24.18	24.18	0	ANNUAL	LINE	5
581684.4	4198543	0.18219	24.04	24.04	0	ANNUAL	LINE	5
581662.7	4198509	0.15749	25	25	0	ANNUAL	LINE	5
581684	4198509	0.16664	24.32	24.32	0	ANNUAL	LINE	5
581687.3	4198470	0.15288	24.21	24.21	0	ANNUAL	LINE	5
581660.8	4198470	0.1431	25	25	0	ANNUAL	LINE	5
581636.5	4198470	0.13549	25	25	0	ANNUAL	LINE	5
581611	4198469	0.12184	25.76	25.76	0	ANNUAL	LINE	5
581587.4	4198469	0.11501	26	26	0	ANNUAL	LINE	5
581563.8	4198468	0.10859	26	26	0	ANNUAL	LINE	5
581538.6	4198467	0.10024	26.11	26.11	0	ANNUAL	LINE	5
581515.6	4198468	0.09272	26.56	26.56	0	ANNUAL	LINE	5
581490.7	4198468	0.08613	26.91	26.91	0	ANNUAL	LINE	5
581465.5	4198470	0.08103	27	27	0	ANNUAL	LINE	5
581441.6	4198468	0.07658	27	27	0	ANNUAL	LINE	5
581444.5	4198435	0.07173	27.22	27.22	0	ANNUAL	LINE	5
581444.2	4198420	0.07019	27.32	27.32	0	ANNUAL	LINE	5
581468.8	4198424	0.07681	27	27	0	ANNUAL	LINE	5
581495	4198426	0.08129	27	27	0	ANNUAL	LINE	5
581442.6	4198386	0.06661	27.58	27.58	0	ANNUAL	LINE	5
581497.2	4198379	0.07362	27.31	27.31	0	ANNUAL	LINE	5
581437.7	4198334	0.06109	28	28	0	ANNUAL	LINE	5
581466.5	4198345	0.06532	28	28	0	ANNUAL	LINE	5
581497.2	4198353	0.07047	27.55	27.55	0	ANNUAL	LINE	5
581497.2	4198338	0.06886	27.55	27.55	0	ANNUAL	LINE	5
581564.4	4198366	0.08881	26.31	26.31	0	ANNUAL	LINE	5
581568	4198344	0.08315	26.78	26.78	0	ANNUAL	LINE	5
581595.5	4198430	0.10888	26	26	0	ANNUAL	LINE	5
581595.8	4198398	0.10269	26	26	0	ANNUAL	LINE	5
581596.8	4198367	0.09713	26	26	0	ANNUAL	LINE	5
581594.2	4198347	0.08836	26.63	26.63	0	ANNUAL	LINE	5
581630.4	4198357	0.09931	26.03	26.03	0	ANNUAL	LINE	5
581648.5	4198335	0.0983	26.02	26.02	0	ANNUAL	LINE	5
581654	4198372	0.11224	25.27	25.27	0	ANNUAL	LINE	5
581661.1	4198396	0.12147	25	25	0	ANNUAL	LINE	5
581669.5	4198419	0.12986	25	25	0	ANNUAL	LINE	5
581696.3	4198431	0.14102	24.76	24.76	0	ANNUAL	LINE	5
581711.5	4198422	0.14247	24.49	24.49	0	ANNUAL	LINE	5
581710.1	4198394	0.13235	25	25	0	ANNUAL	LINE	5
581696.4	4198371	0.12255	25	25	0	ANNUAL	LINE	5
581689.4	4198341	0.11207	25.12	25.12	0	ANNUAL	LINE	5
581717.4	4198363	0.1246	25	25	0	ANNUAL	LINE	5
581694.3	4198357	0.1183	25	25	0	ANNUAL	LINE	5
581758.3	4198343	0.12694	24.81	24.81	0	ANNUAL	LINE	5
581782.4	4198344	0.13271	23.78	23.78	0	ANNUAL	LINE	5
581809	4198344	0.13688	24.8	24.8	0	ANNUAL	LINE	5
581781.4	4198371	0.14261	23.14	23.14	0	ANNUAL	LINE	5
581786.1	4198395	0.15336	23.16	23.16	0	ANNUAL	LINE	5
581806.2	4198364	0.14401	24.52	24.52	0	ANNUAL	LINE	5
581806.9	4198388	0.15434	24.54	24.54	0	ANNUAL	LINE	5
581805.9	4198414	0.16571	24.64	24.64	0	ANNUAL	LINE	5
581811.6	4198436	0.17832	24.9	24.9	0	ANNUAL	LINE	5
581833.7	4198431	0.18264	25	25	0	ANNUAL	LINE	5
581854.8	4198430	0.18702	25.32	25.32	0	ANNUAL	LINE	5
581869.7	4198433	0.19149	25.66	25.66	0	ANNUAL	LINE	5
581888.6	4198436	0.19964	25.67	25.67	0	ANNUAL	LINE	5
581906.4	4198435	0.20482	25.72	25.72	0	ANNUAL	LINE	5
581841.4	4198394	0.16126	25.92	25.92	0	ANNUAL	LINE	5
581860.8	4198397	0.16749	25.98	25.98	0	ANNUAL	LINE	5
581841.4	4198378	0.15379	25.92	25.92	0	ANNUAL	LINE	5
581865.3	4198378	0.15898	26	26	0	ANNUAL	LINE	5
581840.5	4198357	0.14484	25.89	25.89	0	ANNUAL	LINE	5
581863.2	4198360	0.15038	26	26	0	ANNUAL	LINE	5
581841.2	4198338	0.13751	25.92	25.92	0	ANNUAL	LINE	5
581862.9	4198341	0.14254	26	26	0	ANNUAL	LINE	5
581906.4	4198397	0.17991	26	26	0	ANNUAL	LINE	5
581909.6	4198382	0.17246	26	26	0	ANNUAL	LINE	5
581907.3	4198360	0.15677	26.22	26.22	0	ANNUAL	LINE	5
581906.8	4198344	0.14543	26.74	26.74	0	ANNUAL	LINE	5
581932.3	4198397	0.18733	26	26	0	ANNUAL	LINE	5
581935.1	4198381	0.17804	26	26	0	ANNUAL	LINE	5
581930.2	4198363	0.16435	26.12	26.12	0	ANNUAL	LINE	5
581932.8	4198345	0.15148	26.71	26.71	0	ANNUAL	LINE	5
581929.7	4198436	0.2145	25.67	25.67	0	ANNUAL	LINE	5
581944	4198436	0.22033	25.66	25.66	0	ANNUAL	LINE	5
581837.3	4198465	0.20546	24.93	24.93	0	ANNUAL	LINE	5
581842.5	4198492	0.22785	24.75	24.75	0	ANNUAL	LINE	5
581865.4	4198495	0.24092	24.72	24.72	0	ANNUAL	LINE	5
581892.3	4198492	0.25272	24.31	24.31	0	ANNUAL	LINE	5
581926.5	4198494	0.27336	23.81	23.81	0	ANNUAL	LINE	5
581953.7	4198499	0.29578	23.57	23.57	0	ANNUAL	LINE	5
581973.1	4198437	0.233	25.44	25.44	0	ANNUAL	LINE	5
581986.7	4198435	0.23738	25.16	25.16	0	ANNUAL	LINE	5
581958.2	4198468	0.25907	24.6	24.6	0	ANNUAL	LINE	5
582003.8	4198437	0.24527	24.88	24.88	0	ANNUAL	LINE	5
582031.3	4198439	0.25846	24.58	24.58	0	ANNUAL	LINE	5
581985.1	4198494	0.30646	23.74	23.74	0	ANNUAL	LINE	5
582018	4198495	0.3279	23.71	23.71	0	ANNUAL	LINE	5
582050.4	4198493	0.34501	23.77	23.77	0	ANNUAL	LINE	5
582073.3	4198496	0.36676	23.66	23.66	0	ANNUAL	LINE	5
582114.7	4198497	0.39827	23.63	23.63	0	ANNUAL	LINE	5
582137.3	4198501	0.42394	23.51	23.51	0	ANNUAL	LINE	5
581975.9	4198396	0.19992	26	26	0	ANNUAL	LINE	5
581973.5	4198373	0.1839	26	26	0	ANNUAL	LINE	5
581993	4198394	0.20403	26	26	0	ANNUAL	LINE	5
581990.7	4198371	0.18737	26	26	0	ANNUAL	LINE	5
582010.1	4198398	0.21326	25.92	25.92	0	ANNUAL	LINE	5
582018.5	4198370	0.19416	26	26	0	ANNUAL	LINE	5
582029.7	4198393	0.21582	25.82	25.82	0	ANNUAL	LINE	5
581979.9	4198343	0.16027	26.78	26.78	0	ANNUAL	LINE	5
582001.5	4198343	0.16606	26.76	26.76	0	ANNUAL	LINE	5
582027.4	4198344	0.17328	26.73	26.73	0	ANNUAL	LINE	5
582049.1	4198443	0.27076	24.44	24.44	0	ANNUAL	LINE	5
582049.1	4198418	0.24313	25.04	25.04	0	ANNUAL	LINE	5
582049.4	4198392	0.22019	25.26	25.26	0	ANNUAL	LINE	5
582051	4198366	0.19966	26.01	26.01	0	ANNUAL	LINE	5
582050	4198345	0.18024	26.7	26.7	0	ANNUAL	LINE	5
582093	4198445	0.29371	24	24	0	ANNUAL	LINE	5
582093	4198420	0.26221	24.07	24.07	0	ANNUAL	LINE	5
582093.4	4198394	0.23482	24.44	24.44	0	ANNUAL	LINE	5
582095	4198368	0.2161	25.9	25.9	0	ANNUAL	LINE	5
582094	4198347	0.19553	26.63	26.63	0	ANNUAL	LINE	5
582165.4	4198495	0.42737	23.92	23.92	0	ANNUAL	LINE	5
582181.9	4198499	0.44952	24	24	0	ANNUAL	LINE	5
582171.6	4198462	0.36024	24	24	0	ANNUAL	LINE	5
582210.1	4198468	0.39552	24	24	0	ANNUAL	LINE	5
582219.1	4198507	0.50221	24	24	0	ANNUAL	LINE	5
582261.1	4198479	0.45035	24	24	0	ANNUAL	LINE	5
582263.4	4198523	0.59076	24	24	0	ANNUAL	LINE	5
582235.9	4198547	0.67255	23.07	23.07	0	ANNUAL	LINE	5
582242.4	4198578	0.8521	23	23	0	ANNUAL	LINE	5
582258.3	4198570	0.81402	23.18	23.18	0	ANNUAL	LINE	5
582267.9	4198583	0.9095	23	23	0	ANNUAL	LINE	5
582285.7	4198581	0.9177	23	23	0	ANNUAL	LINE	5
582317.3	4198581	0.94319	23	23	0	ANNUAL	LINE	5
582353.1	4198579	0.95671	23	23	0	ANNUAL	LINE	5
582380.8	4198578	0.96444	23	23	0	ANNUAL	LINE	5
582408.6	4198580	0.98005	23	23	0	ANNUAL	LINE	5
582437.9	4198584	1.01604	23	23	0	ANNUAL	LINE	5
582470.6	4198581	0.99232	23	23	0	ANNUAL	LINE	5
582505.2	4198584	0.99889	23	23	0	ANNUAL	LINE	5
582498	4198547	0.80096	23.18	23.18	0	ANNUAL	LINE	5
582477.1	4198528	0.71224	23.96	23.96	0	ANNUAL	LINE	5

582448.15	4198529.72	40048.45341	24	24	0	ANNUAL	AREA	5
582421.52	4198528.2	40311.01019	24	24	0	ANNUAL	AREA	5
582376.26	4198524.39	40180.8911	24	24	0	ANNUAL	AREA	5
582447.01	4198495.11	35317.34144	24	24	0	ANNUAL	AREA	5
582393	4198503.85	36901.69667	24	24	0	ANNUAL	AREA	5
582300.57	4198521.73	39351.31271	24	24	0	ANNUAL	AREA	5
582319.96	4198523.25	39870.5661	24	24	0	ANNUAL	AREA	5
582342.41	4198523.25	40017.1395	24	24	0	ANNUAL	AREA	5
582293.09	4198473.17	31453.24098	24	24	0	ANNUAL	AREA	5
582312.48	4198474.69	32064.2326	24	24	0	ANNUAL	AREA	5
582334.93	4198474.69	32426.08143	24	24	0	ANNUAL	AREA	5
582370.3	4198440.84	28684.00253	24.51	24.51	0	ANNUAL	AREA	5
582389.7	4198442.36	29028.91878	24.46	24.46	0	ANNUAL	AREA	5
582412.14	4198442.36	29160.27229	24.46	24.46	0	ANNUAL	AREA	5
582368.4	4198421.82	26636.78707	25	25	0	ANNUAL	AREA	5
582387.8	4198423.34	27004.02435	25	25	0	ANNUAL	AREA	5
582410.24	4198423.34	27183.27938	25	25	0	ANNUAL	AREA	5
582370.3	4198394.05	24009.88346	25.03	25.03	0	ANNUAL	AREA	5
582389.7	4198395.57	24383.72661	25	25	0	ANNUAL	AREA	5
582412.14	4198395.57	24601.79417	25	25	0	ANNUAL	AREA	5
582372.58	4198376.56	22543.95405	25.24	25.24	0	ANNUAL	AREA	5
582391.98	4198378.08	22914.81572	25	25	0	ANNUAL	AREA	5
582414.42	4198378.08	23147.08998	25	25	0	ANNUAL	AREA	5
582431.98	4198378.71	23341.78801	25	25	0	ANNUAL	AREA	5
582454.43	4198378.71	23479.04816	25	25	0	ANNUAL	AREA	5
582439.21	4198402.29	25372.11392	25	25	0	ANNUAL	AREA	5
582461.65	4198402.29	25450.8646	24.88	24.88	0	ANNUAL	AREA	5
582442.63	4198423.22	27313.84881	25	25	0	ANNUAL	AREA	5
582461.65	4198423.22	27331.11243	24.46	24.46	0	ANNUAL	AREA	5
582448.72	4198440.71	29051.08008	24.43	24.43	0	ANNUAL	AREA	5
582471.16	4198440.71	29001.96732	24.04	24.04	0	ANNUAL	AREA	5
582375.5	4198470.76	32310.54909	24	24	0	ANNUAL	AREA	5
582421.52	4198464.3	31649.72489	24	24	0	ANNUAL	AREA	5
582288.64	4198498.46	35133.41224	24	24	0	ANNUAL	AREA	5
582352.18	4198500.25	36302.85505	24	24	0	ANNUAL	AREA	5
582439.55	4198354.41	21550.53036	25	25	0	ANNUAL	AREA	5
582341.25	4198348.91	19843.45466	26.24	26.24	0	ANNUAL	AREA	5
582343.19	4198373.16	21771.69996	25.85	25.85	0	ANNUAL	AREA	5
582341.9	4198405.18	24605.86036	25.27	25.27	0	ANNUAL	AREA	5
582341.79	4198435.55	27721.66565	24.68	24.68	0	ANNUAL	AREA	5
582306.03	4198447.72	28461.51739	24.28	24.28	0	ANNUAL	AREA	5
582302.6	4198427.94	26148.40082	24.94	24.94	0	ANNUAL	AREA	5
582309.45	4198401.31	23576.64835	25.83	25.83	0	ANNUAL	AREA	5
582303.74	4198381.53	21675.13757	26	26	0	ANNUAL	AREA	5
582305.65	4198364.42	20328.98433	26.06	26.06	0	ANNUAL	AREA	5
582304.89	4198344.63	18794.26375	26.71	26.71	0	ANNUAL	AREA	5
582279.78	4198367.46	19983.79714	26	26	0	ANNUAL	AREA	5
582271.79	4198345.01	18079.78368	26.7	26.7	0	ANNUAL	AREA	5
582275.98	4198410.06	23662.5836	25.53	25.53	0	ANNUAL	AREA	5
582275.59	4198430.61	25777.85329	24.85	24.85	0	ANNUAL	AREA	5
582238.12	4198409.3	22507.35406	24.71	24.71	0	ANNUAL	AREA	5
582237.74	4198429.85	24560.22508	24.12	24.12	0	ANNUAL	AREA	5
582213.02	4198406.26	21406.51071	24.66	24.66	0	ANNUAL	AREA	5
582212.64	4198426.8	23375.41698	24	24	0	ANNUAL	AREA	5
582176.88	4198407.4	20213.16308	24.62	24.62	0	ANNUAL	AREA	5
582176.5	4198427.94	22104.66113	24	24	0	ANNUAL	AREA	5
582154.44	4198348.06	15020.07921	26.6	26.6	0	ANNUAL	AREA	5
582154.06	4198368.6	16366.27759	25.92	25.92	0	ANNUAL	AREA	5
582179.54	4198348.44	15807.34006	26.59	26.59	0	ANNUAL	AREA	5
582179.16	4198368.98	17225.71323	25.9	25.9	0	ANNUAL	AREA	5
582211.12	4198345.78	16549.45403	26.68	26.68	0	ANNUAL	AREA	5
582219.1	4198366.32	18265.06148	25.99	25.99	0	ANNUAL	AREA	5
582242.31	4198348.82	17612.04509	26.58	26.58	0	ANNUAL	AREA	5
582241.93	4198369.36	19156.37575	25.92	25.92	0	ANNUAL	AREA	5
582112.21	4198343.49	13455.54731	26.75	26.75	0	ANNUAL	AREA	5
582111.83	4198364.04	14635.58912	26.07	26.07	0	ANNUAL	AREA	5
582110.31	4198393.33	16527.8429	24.99	24.99	0	ANNUAL	AREA	5
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582155.96	4198398.65	18690.36902	24.91	24.91	0	ANNUAL	AREA	5
582155.58	4198419.19	20418.77275	24.23	24.23	0	ANNUAL	AREA	5
582115.06	4198448.1	21339.65062	24	24	0	ANNUAL	AREA	5
582150.44	4198450.77	23353.79795	24	24	0	ANNUAL	AREA	5
582134.97	4199928.18	3830.21418	17	17	0	ANNUAL	AREA	5
582200.62	4199934.65	3836.43398	16.71	16.71	0	ANNUAL	AREA	5
582217.44	4199935.94	3837.3052	16.67	16.67	0	ANNUAL	AREA	5
582219.05	4199906.51	4090.45501	17	17	0	ANNUAL	AREA	5
582154.7	4199905.54	4046.7951	17	17	0	ANNUAL	AREA	5
582181.54	4199909.42	4037.32622	17	17	0	ANNUAL	AREA	5
582223.58	4199887.75	4265.98997	17	17	0	ANNUAL	AREA	5
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582201.59	4199861.56	4513.92819	17	17	0	ANNUAL	AREA	5
582172.81	4199870.29	4401.20467	17	17	0	ANNUAL	AREA	5
582172.16	4199855.41	4555.67603	17	17	0	ANNUAL	AREA	5
582174.1	4199835.36	4779.78043	17	17	0	ANNUAL	AREA	5
582169.57	4199792.67	5307.34732	17	17	0	ANNUAL	AREA	5
582188.01	4199793.32	5312.86671	17	17	0	ANNUAL	AREA	5
582203.53	4199794.93	5300.24185	17	17	0	ANNUAL	AREA	5
582222.94	4199792.99	5332.89467	17	17	0	ANNUAL	AREA	5
582223.91	4199819.84	4993.48552	17	17	0	ANNUAL	AREA	5
582223.91	4199844.09	4713.78079	17	17	0	ANNUAL	AREA	5
582224.88	4199859.94	4543.90519	17	17	0	ANNUAL	AREA	5
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582168.88	4199737.97	6128.73858	17	17	0	ANNUAL	AREA	5
582205.17	4199745.12	6028.98227	17	17	0	ANNUAL	AREA	5
582218.09	4199736.05	6178.28244	17	17	0	ANNUAL	AREA	5
582223.31	4199713.23	6573.6241	17.03	17.03	0	ANNUAL	AREA	5
582276.89	4199916.89	4022.11131	17	17	0	ANNUAL	AREA	5
582283.49	4199931.46	3902.12083	17	17	0	ANNUAL	AREA	5
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582383.56	4199934.76	3857.48888	17	17	0	ANNUAL	AREA	5
582273.59	4199868.22	4470.923	17	17	0	ANNUAL	AREA	5
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582286.79	4199821.76	4970.18537	17	17	0	ANNUAL	AREA	5
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582343.42	4199794.27	5257.71365	17	17	0	ANNUAL	AREA	5
582360.47	4199793.72	5243.97685	17.09	17.09	0	ANNUAL	AREA	5
582351.94	4199838.53	4743.66072	17	17	0	ANNUAL	AREA	5
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582386.03	4199838.26	4711.77236	17	17	0	ANNUAL	AREA	5
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582270.84	4199823.96	4948.60241	17	17	0	ANNUAL	AREA	5
582376.96	4199793.72	5222.33351	17.32	17.32	0	ANNUAL	AREA	5
582393.46	4199804.44	5071.87222	17.36	17.36	0	ANNUAL	AREA	5
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582417.38	4199811.59	4956.81601	17.84	17.84	0	ANNUAL	AREA	5
582416.55	4199789.32	5214.27349	18	18	0	ANNUAL	AREA	5
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582457.12	4199812.07	4885.03318	18	18	0	ANNUAL	AREA	5
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582509.56	4199794.19	4978.12622	18	18	0	ANNUAL	AREA	5
582516.72	4199779.69	5126.4908	18	18	0	ANNUAL	AREA	5
582519.89	4199765.78	5283.99184	18	18	0	ANNUAL	AREA	5
582493.87	4199765.59	5344.25256	18	18	0	ANNUAL	AREA	5
582491.29	4199775.12	5234.37447	18	18	0	ANNUAL	AREA	5
582467.65	4199794.79	5055.10951	18	18	0	ANNUAL	AREA	5
582471.42	4199784.85	5161.44082	18	18	0	ANNUAL	AREA	5
582451.73	4199758.07	5533.27391	18	18	0	ANNUAL	AREA	5
582449.15	4199746.75	5689.89281	18	18	0	ANNUAL	AREA	5
582458.49	4199725.69	5965.14626	18	18	0	ANNUAL	AREA	5
582459.28	4199711.19	6182.23493	18	18	0	ANNUAL	AREA	5
582460.87	4199697.88	6390.4904	18	18	0	ANNUAL	AREA	5

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582376.3	4198524	0.66728	24	24	0	ANNUAL	LINE	5
582447	4198495	0.58408	24	24	0	ANNUAL	LINE	5
582393	4198504	0.59555	24	24	0	ANNUAL	LINE	5
582300.6	4198522	0.612	24	24	0	ANNUAL	LINE	5
582320	4198523	0.63097	24	24	0	ANNUAL	LINE	5
582342.4	4198523	0.6447	24	24	0	ANNUAL	LINE	5
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582312.5	4198475	0.46704	24	24	0	ANNUAL	LINE	5
582334.9	4198475	0.47814	24	24	0	ANNUAL	LINE	5
582370.3	4198441	0.4096	24.51	24.51	0	ANNUAL	LINE	5
582389.7	4198442	0.42009	24.46	24.46	0	ANNUAL	LINE	5
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582389.7	4198396	0.33134	25	25	0	ANNUAL	LINE	5
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582372.6	4198377	0.30346	25.24	25.24	0	ANNUAL	LINE	5
582392	4198378	0.30587	25	25	0	ANNUAL	LINE	5
582414.4	4198378	0.31182	25	25	0	ANNUAL	LINE	5
582432	4198379	0.31721	25	25	0	ANNUAL	LINE	5
582454.4	4198379	0.32268	25	25	0	ANNUAL	LINE	5
582439.2	4198402	0.35633	25	25	0	ANNUAL	LINE	5
582461.7	4198402	0.36229	24.88	24.88	0	ANNUAL	LINE	5
582442.6	4198423	0.39569	25	25	0	ANNUAL	LINE	5
582461.7	4198423	0.40178	24.46	24.46	0	ANNUAL	LINE	5
582448.7	4198441	0.43521	24.43	24.43	0	ANNUAL	LINE	5
582471.2	4198441	0.44187	24.04	24.04	0	ANNUAL	LINE	5
582375.5	4198471	0.48548	24	24	0	ANNUAL	LINE	5
582421.5	4198464	0.48515	24	24	0	ANNUAL	LINE	5
582288.6	4198498	0.52237	24	24	0	ANNUAL	LINE	5
582352.2	4198500	0.56429	24	24	0	ANNUAL	LINE	5
582439.6	4198354	0.2861	25	25	0	ANNUAL	LINE	5
582341.3	4198349	0.27737	26.24	26.24	0	ANNUAL	LINE	5
582343.2	4198373	0.30066	25.85	25.85	0	ANNUAL	LINE	5
582341.9	4198405	0.33714	25.27	25.27	0	ANNUAL	LINE	5
582341.8	4198436	0.38723	24.68	24.68	0	ANNUAL	LINE	5
582306	4198448	0.39874	24.28	24.28	0	ANNUAL	LINE	5
582302.6	4198428	0.3564	24.94	24.94	0	ANNUAL	LINE	5
582309.5	4198401	0.33096	25.83	25.83	0	ANNUAL	LINE	5
582303.7	4198382	0.30157	26	26	0	ANNUAL	LINE	5
582305.7	4198364	0.28585	26.06	26.06	0	ANNUAL	LINE	5
582304.9	4198345	0.26658	26.71	26.71	0	ANNUAL	LINE	5
582279.8	4198367	0.2763	26	26	0	ANNUAL	LINE	5
582271.8	4198345	0.25606	26.7	26.7	0	ANNUAL	LINE	5
582276	4198410	0.33011	25.53	25.53	0	ANNUAL	LINE	5
582275.6	4198431	0.35038	24.85	24.85	0	ANNUAL	LINE	5
582238.1	4198409	0.30173	24.71	24.71	0	ANNUAL	LINE	5
582237.7	4198430	0.33533	24.12	24.12	0	ANNUAL	LINE	5
582213	4198406	0.28841	24.66	24.66	0	ANNUAL	LINE	5
582212.6	4198427	0.32012	24	24	0	ANNUAL	LINE	5
582176.9	4198407	0.27689	24.62	24.62	0	ANNUAL	LINE	5
582176.5	4198428	0.30658	24	24	0	ANNUAL	LINE	5
582154.4	4198348	0.21682	26.6	26.6	0	ANNUAL	LINE	5
582154.1	4198369	0.23612	25.92	25.92	0	ANNUAL	LINE	5
582179.5	4198348	0.22597	26.59	26.59	0	ANNUAL	LINE	5
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582211.1	4198346	0.23498	26.68	26.68	0	ANNUAL	LINE	5
582219.1	4198366	0.2559	25.99	25.99	0	ANNUAL	LINE	5
582242.3	4198349	0.24941	26.58	26.58	0	ANNUAL	LINE	5
582241.9	4198369	0.26594	25.92	25.92	0	ANNUAL	LINE	5
582112.2	4198343	0.19779	26.75	26.75	0	ANNUAL	LINE	5
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582155.6	4198419	0.28515	24.23	24.23	0	ANNUAL	LINE	5
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582150.4	4198451	0.33013	24	24	0	ANNUAL	LINE	5
582135	4199928	0.06045	17	17	0	ANNUAL	LINE	5
582200.6	4199935	0.06052	16.71	16.71	0	ANNUAL	LINE	5
582217.4	4199936	0.06054	16.67	16.67	0	ANNUAL	LINE	5
582219.1	4199907	0.06376	17	17	0	ANNUAL	LINE	5
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582223.6	4199888	0.06598	17	17	0	ANNUAL	LINE	5
582200	4199884	0.06625	17	17	0	ANNUAL	LINE	5
582201.6	4199862	0.06899	17	17	0	ANNUAL	LINE	5
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582169.6	4199793	0.07834	17	17	0	ANNUAL	LINE	5
582188	4199793	0.0785	17	17	0	ANNUAL	LINE	5
582203.5	4199795	0.07844	17	17	0	ANNUAL	LINE	5
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582223.9	4199820	0.07491	17	17	0	ANNUAL	LINE	5
582223.9	4199844	0.07152	17	17	0	ANNUAL	LINE	5
582224.9	4199860	0.06944	17	17	0	ANNUAL	LINE	5
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582223.3	4199713	0.09321	17.03	17.03	0	ANNUAL	LINE	5
582276.9	4199917	0.06303	17	17	0	ANNUAL	LINE	5
582283.5	4199931	0.06149	17	17	0	ANNUAL	LINE	5
582302.2	4199936	0.06115	17	17	0	ANNUAL	LINE	5
582325.3	4199934	0.06143	17	17	0	ANNUAL	LINE	5
582361.8	4199921	0.06283	17	17	0	ANNUAL	LINE	5
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582290.1	4199865	0.06927	17	17	0	ANNUAL	LINE	5
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582286.8	4199822	0.07506	17	17	0	ANNUAL	LINE	5
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582360.5	4199794	0.07923	17.09	17.09	0	ANNUAL	LINE	5
582351.9	4199839	0.07279	17	17	0	ANNUAL	LINE	5
582369	4199839	0.07271	17	17	0	ANNUAL	LINE	5
582386	4199838	0.07273	17	17	0	ANNUAL	LINE	5
582273.6	4199845	0.07178	17	17	0	ANNUAL	LINE	5
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582377	4199794	0.07916	17.32	17.32	0	ANNUAL	LINE	5
582393.5	4199804	0.07745	17.36	17.36	0	ANNUAL	LINE	5
582337.1	4199843	0.07225	17	17	0	ANNUAL	LINE	5
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582417.4	4199812	0.07625	17.84	17.84	0	ANNUAL	LINE	5
582416.6	4199789	0.07956	18	18	0	ANNUAL	LINE	5
582415.7	4199773	0.0821	18	18	0	ANNUAL	LINE	5
582445.8	4199793	0.07865	18	18	0	ANNUAL	LINE	5
582457.1	4199812	0.07578	18	18	0	ANNUAL	LINE	5
582480	4199811	0.07562	18	18	0	ANNUAL	LINE	5
582501	4199805	0.07611	18	18	0	ANNUAL	LINE	5
582509.6	4199794	0.07755	18	18	0	ANNUAL	LINE	5
582516.7	4199780	0.07955	18	18	0	ANNUAL	LINE	5
582519.9	4199766	0.08161	18	18	0	ANNUAL	LINE	5
582493.9	4199766	0.08215	18	18	0	ANNUAL	LINE	5
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582467.7	4199795	0.07813	18	18	0	ANNUAL	LINE	5
582471.4	4199785	0.07955	18	18	0	ANNUAL	LINE	5
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582460.9	4199698	0.09482	18	18	0	ANNUAL	LINE	5

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582370.86	4199412.78	17576.94095	18.62	18.62	0	ANNUAL	AREA	5
582384.06	4199417.18	17086.64056	18.96	18.96	0	ANNUAL	AREA	5
582404.14	4199419.38	16686.42311	18.96	18.96	0	ANNUAL	AREA	5
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581672.59	4199008.78	33392.05116	25	25	0	ANNUAL	AREA	5
581627.99	4199015.14	22552.89966	24.64	24.64	0	ANNUAL	AREA	5
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581583.02	4199152.1	15230.88051	24.86	24.86	0	ANNUAL	AREA	5
581571.32	4199173.88	13879.04438	24.07	24.07	0	ANNUAL	AREA	5
581553.58	4199149.28	12943.90994	24.29	24.29	0	ANNUAL	AREA	5
581573.34	4199134.76	14658.83432	24.99	24.99	0	ANNUAL	AREA	5
581586.65	4199115.4	16147.27897	25	25	0	ANNUAL	AREA	5
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581590.71	4199070.45	17048.40574	25	25	0	ANNUAL	AREA	5
581575.97	4199058.11	15605.54398	25	25	0	ANNUAL	AREA	5
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581553.34	4199081.42	13519.40338	24.32	24.32	0	ANNUAL	AREA	5
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581575.97	4199041.31	15665.87574	24.54	24.54	0	ANNUAL	AREA	5
581597.22	4199024.52	18032.12274	24.73	24.73	0	ANNUAL	AREA	5
581495.4	4199071.83	10038.92327	22.71	22.71	0	ANNUAL	AREA	5
581483.06	4199051.94	9521.17192	22	22	0	ANNUAL	AREA	5
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581517.35	4199022.46	11294.88214	22.89	22.89	0	ANNUAL	AREA	5
581539.29	4199025.89	12660.58901	23	23	0	ANNUAL	AREA	5
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581666.25	4198975.24	30718.87716	24.31	24.31	0	ANNUAL	AREA	5
581667.51	4198962.61	30628.79738	23.88	23.88	0	ANNUAL	AREA	5
581659.72	4198947.03	28012.52101	23.37	23.37	0	ANNUAL	AREA	5
581659.72	4198931.03	27358.39418	22.98	22.98	0	ANNUAL	AREA	5
581679.93	4198928.92	32524.38363	23	23	0	ANNUAL	AREA	5
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581638.03	4198949.14	23554.46771	23.44	23.44	0	ANNUAL	AREA	5
581627.51	4198940.92	21552.82703	22.95	22.95	0	ANNUAL	AREA	5
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581586.87	4198928.92	16221.37297	22	22	0	ANNUAL	AREA	5
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581564.96	4199435.51	8232.98061	21.81	21.81	0	ANNUAL	AREA	5
581591.18	4199435	8824.26246	22	22	0	ANNUAL	AREA	5
581914.54	4199376.58	22199.90404	21.96	21.96	0	ANNUAL	AREA	5
581939.42	4199375.6	22993.45885	20.97	20.97	0	ANNUAL	AREA	5
581967.72	4199375.6	23556.81063	19.22	19.22	0	ANNUAL	AREA	5
581998.94	4199374.63	24164.67862	18.31	18.31	0	ANNUAL	AREA	5
582049.68	4199381.95	23607.26315	18	18	0	ANNUAL	AREA	5
582079.43	4199382.92	23553.28009	18	18	0	ANNUAL	AREA	5
582108.71	4199381.95	23631.10785	18	18	0	ANNUAL	AREA	5
581964.06	4199353.16	26922.25922	20.08	20.08	0	ANNUAL	AREA	5
581991.38	4199352.19	27584.84429	19.09	19.09	0	ANNUAL	AREA	5
582024.55	4199357.06	27118.1749	18	18	0	ANNUAL	AREA	5
582054.31	4199358.04	27149.69672	18	18	0	ANNUAL	AREA	5
582025.53	4199332.18	31846.12218	18.75	18.75	0	ANNUAL	AREA	5
582055.29	4199333.16	31747.70101	18	18	0	ANNUAL	AREA	5
581961.62	4199332.18	30826.79378	20.94	20.94	0	ANNUAL	AREA	5
581991.38	4199333.16	31186.62435	19.14	19.14	0	ANNUAL	AREA	5

582461.9	4199681	0.09824	18	18	0	ANNUAL	LINE	5
582438.6	4199654	0.10466	18	18	0	ANNUAL	LINE	5
582420.3	4199656	0.1047	18	18	0	ANNUAL	LINE	5
582409.4	4199666	0.10264	18	18	0	ANNUAL	LINE	5
582297.7	4199615	0.11696	18	18	0	ANNUAL	LINE	5
582274.4	4199612	0.1179	18	18	0	ANNUAL	LINE	5
582272.4	4199590	0.12447	18	18	0	ANNUAL	LINE	5
582294.1	4199585	0.12596	18	18	0	ANNUAL	LINE	5
582292.8	4199566	0.13232	18	18	0	ANNUAL	LINE	5
582271.1	4199552	0.13737	18	18	0	ANNUAL	LINE	5
582290.9	4199539	0.14185	18	18	0	ANNUAL	LINE	5
582270.5	4199510	0.15378	18	18	0	ANNUAL	LINE	5
582290.5	4199522	0.14842	18	18	0	ANNUAL	LINE	5
582291.5	4199493	0.16123	18	18	0	ANNUAL	LINE	5
582299.3	4199475	0.16939	18	18	0	ANNUAL	LINE	5
582273.4	4199466	0.17429	18	18	0	ANNUAL	LINE	5
582293.5	4199449	0.1831	18	18	0	ANNUAL	LINE	5
582277.3	4199427	0.1968	18	18	0	ANNUAL	LINE	5
582286	4199402	0.21305	18	18	0	ANNUAL	LINE	5
582304.8	4199391	0.22013	18	18	0	ANNUAL	LINE	5
582313.2	4199412	0.20512	18	18	0	ANNUAL	LINE	5
582322.6	4199429	0.19411	18	18	0	ANNUAL	LINE	5
582302.5	4199427	0.19575	18	18	0	ANNUAL	LINE	5
582323.2	4199451	0.18121	18	18	0	ANNUAL	LINE	5
582344.9	4199467	0.17215	18	18	0	ANNUAL	LINE	5
582317.7	4199481	0.16628	18	18	0	ANNUAL	LINE	5
582340.4	4199494	0.15921	18	18	0	ANNUAL	LINE	5
582342	4199519	0.14857	18	18	0	ANNUAL	LINE	5
582318.4	4199534	0.14351	18	18	0	ANNUAL	LINE	5
582342.6	4199558	0.13432	18	18	0	ANNUAL	LINE	5
582317.1	4199569	0.13104	18	18	0	ANNUAL	LINE	5
582321.3	4199589	0.12455	18	18	0	ANNUAL	LINE	5
582342	4199608	0.1185	18	18	0	ANNUAL	LINE	5
582316.7	4199616	0.11653	18	18	0	ANNUAL	LINE	5
582356.2	4199617	0.11565	18	18	0	ANNUAL	LINE	5
582381.8	4199601	0.1197	18	18	0	ANNUAL	LINE	5
582354.3	4199590	0.12352	18	18	0	ANNUAL	LINE	5
582378.5	4199565	0.13086	18	18	0	ANNUAL	LINE	5
582357.2	4199546	0.13821	18	18	0	ANNUAL	LINE	5
582359.5	4199518	0.14875	18	18	0	ANNUAL	LINE	5
582378.9	4199520	0.14711	18	18	0	ANNUAL	LINE	5
582398.3	4199549	0.13567	18	18	0	ANNUAL	LINE	5
582407.7	4199576	0.12652	18	18	0	ANNUAL	LINE	5
582405.4	4199597	0.12045	18	18	0	ANNUAL	LINE	5
582432.3	4199615	0.11468	18	18	0	ANNUAL	LINE	5
582404.9	4199617	0.11471	18	18	0	ANNUAL	LINE	5
582370.9	4199413	0.20215	18.62	18.62	0	ANNUAL	LINE	5
582384.1	4199417	0.19867	18.96	18.96	0	ANNUAL	LINE	5
582404.1	4199419	0.19614	18.96	18.96	0	ANNUAL	LINE	5
582359.6	4199378	0.22723	19	19	0	ANNUAL	LINE	5
582377.7	4199378	0.22632	19	19	0	ANNUAL	LINE	5
582404.7	4199378	0.22423	19	19	0	ANNUAL	LINE	5
582230.9	4199414	0.2058	18	18	0	ANNUAL	LINE	5
582231.7	4199451	0.18295	18	18	0	ANNUAL	LINE	5
582228.4	4199468	0.17407	18	18	0	ANNUAL	LINE	5
582408.4	4199449	0.17861	18.73	18.73	0	ANNUAL	LINE	5
581664.6	4199034	0.29975	25	25	0	ANNUAL	LINE	5
581672.6	4199009	0.32648	25	25	0	ANNUAL	LINE	5
581628	4199015	0.24776	24.64	24.64	0	ANNUAL	LINE	5
581630.7	4199043	0.24346	25	25	0	ANNUAL	LINE	5
581606	4199163	0.18185	25	25	0	ANNUAL	LINE	5
581583	4199152	0.16901	24.86	24.86	0	ANNUAL	LINE	5
581571.3	4199174	0.15755	24.07	24.07	0	ANNUAL	LINE	5
581553.6	4199149	0.15203	24.29	24.29	0	ANNUAL	LINE	5
581573.3	4199135	0.16627	24.99	24.99	0	ANNUAL	LINE	5
581586.7	4199115	0.18001	25	25	0	ANNUAL	LINE	5
581602.7	4199052	0.20847	25	25	0	ANNUAL	LINE	5
581590.7	4199070	0.19303	25	25	0	ANNUAL	LINE	5
581576	4199058	0.18248	25	25	0	ANNUAL	LINE	5
581571.2	4199086	0.17415	24.92	24.92	0	ANNUAL	LINE	5
581553.3	4199081	0.16292	24.32	24.32	0	ANNUAL	LINE	5
581549.9	4199059	0.16375	24.21	24.21	0	ANNUAL	LINE	5
581649	4199012	0.28055	24.77	24.77	0	ANNUAL	LINE	5
581576	4199041	0.1859	24.54	24.54	0	ANNUAL	LINE	5
581597.2	4199025	0.20842	24.73	24.73	0	ANNUAL	LINE	5
581495.4	4199072	0.1327	22.71	22.71	0	ANNUAL	LINE	5
581483.1	4199052	0.12934	22	22	0	ANNUAL	LINE	5
581507.8	4199049	0.14098	22.8	22.8	0	ANNUAL	LINE	5
581528.7	4199048	0.15235	23.37	23.37	0	ANNUAL	LINE	5
581517.4	4199022	0.14862	22.89	22.89	0	ANNUAL	LINE	5
581539.3	4199026	0.16236	23	23	0	ANNUAL	LINE	5
581580.1	4199018	0.19413	23.95	23.95	0	ANNUAL	LINE	5
581605.5	4198996	0.22396	24.01	24.01	0	ANNUAL	LINE	5
581586.3	4198983	0.20649	23.24	23.24	0	ANNUAL	LINE	5
581576	4198998	0.19483	23.15	23.15	0	ANNUAL	LINE	5
581552.7	4198998	0.17499	23.02	23.02	0	ANNUAL	LINE	5
581536.5	4198980	0.16576	22.36	22.36	0	ANNUAL	LINE	5
581505	4199000	0.14443	22.1	22.1	0	ANNUAL	LINE	5
581473.8	4199020	0.12709	22	22	0	ANNUAL	LINE	5
581681	4198978	0.3611	24.38	24.38	0	ANNUAL	LINE	5
581681.8	4198966	0.36944	23.98	23.98	0	ANNUAL	LINE	5
581683.9	4198955	0.38064	23.62	23.62	0	ANNUAL	LINE	5
581666.3	4198975	0.32645	24.31	24.31	0	ANNUAL	LINE	5
581667.5	4198963	0.33455	23.88	23.88	0	ANNUAL	LINE	5
581659.7	4198947	0.32261	23.37	23.37	0	ANNUAL	LINE	5
581659.7	4198931	0.32679	22.98	22.98	0	ANNUAL	LINE	5
581679.9	4198929	0.378	23	23	0	ANNUAL	LINE	5
581611.7	4198948	0.24274	22.67	22.67	0	ANNUAL	LINE	5
581638	4198949	0.27954	23.44	23.44	0	ANNUAL	LINE	5
581627.5	4198941	0.26525	22.95	22.95	0	ANNUAL	LINE	5
581640.6	4198931	0.28856	22.88	22.88	0	ANNUAL	LINE	5
581614	4198931	0.24886	22.29	22.29	0	ANNUAL	LINE	5
581640.4	4198894	0.29258	22.14	22.14	0	ANNUAL	LINE	5
581638.9	4198906	0.29027	22.17	22.17	0	ANNUAL	LINE	5
581623.5	4198905	0.26492	22	22	0	ANNUAL	LINE	5
581623.9	4198894	0.26518	22	22	0	ANNUAL	LINE	5
581577.4	4198914	0.20555	22	22	0	ANNUAL	LINE	5
581594.5	4198915	0.2247	22	22	0	ANNUAL	LINE	5
581586.9	4198929	0.21556	22	22	0	ANNUAL	LINE	5
581594.9	4198942	0.22355	22.2	22.2	0	ANNUAL	LINE	5
581582	4198942	0.20892	22.21	22.21	0	ANNUAL	LINE	5
581578.1	4198897	0.20618	22	22	0	ANNUAL	LINE	5
581596.9	4198896	0.22747	22	22	0	ANNUAL	LINE	5
582135.1	4198890	5.28423	21	21	0	ANNUAL	LINE	5
582136.2	4198872	7.12863	21.15	21.15	0	ANNUAL	LINE	5
582134.9	4198855	10.2798	21.71	21.71	0	ANNUAL	LINE	5
582158.3	4198856	9.33056	21.66	21.66	0	ANNUAL	LINE	5
582177.7	4198857	8.85734	21.56	21.56	0	ANNUAL	LINE	5
582193.4	4198857	8.54799	21.22	21.22	0	ANNUAL	LINE	5
582190.1	4198875	6.0571	21.01	21.01	0	ANNUAL	LINE	5
582190.7	4198892	4.69001	21	21	0	ANNUAL	LINE	5
581520.1	4199432	0.09221	20.68	20.68	0	ANNUAL	LINE	5
581547.9	4199433	0.09704	21.5	21.5	0	ANNUAL	LINE	5
581565	4199436	0.09986	21.81	21.81	0	ANNUAL	LINE	5
581591.2	4199435	0.10495	22	22	0	ANNUAL	LINE	5
581914.5	4199377	0.20315	21.96	21.96	0	ANNUAL	LINE	5
581939.4	4199376	0.20982	20.97	20.97	0	ANNUAL	LINE	5
581967.7	4199376	0.21517	19.22	19.22	0	ANNUAL	LINE	5
581998.9	4199375	0.22092	18.31	18.31	0	ANNUAL	LINE	5
582049.7	4199382	0.22146	18	18	0	ANNUAL	LINE	5
582079.4	4199383	0.2234	18	18	0	ANNUAL	LINE	5
582108.7	4199382	0.22614	18	18	0	ANNUAL	LINE	5
581964.1	4199353	0.23305	20.08	20.08	0	ANNUAL	LINE	5
581991.4	4199352	0.23888	19.09	19.09	0	ANNUAL	LINE	5
582024.6	4199357	0.23929	18	18	0	ANNUAL	LINE	5
582054.3	4199358	0.24194	18	18	0	ANNUAL	LINE	5
582025.5	4199332	0.26355	18.75	18.75	0	ANNUAL	LINE	5
582055.3	4199333	0.26597	18	18	0	ANNUAL	LINE	5
581961.6	4199332	0.25218	20.94	20.94	0	ANNUAL	LINE	5
581991.4	4199333	0.25712	19.14	19.14	0	ANNUAL	LINE	5

581960.15	4199309.25	36191.71165	21.24	21.24	0	ANNUAL	AREA	5
581989.91	4199310.23	36617.23802	19.71	19.71	0	ANNUAL	AREA	5
581964.06	4199291.2	41681.45933	20.99	20.99	0	ANNUAL	AREA	5
581993.82	4199292.18	42117.81384	20	20	0	ANNUAL	AREA	5
581946.01	4199252.66	57698.23362	21.59	21.59	0	ANNUAL	AREA	5
581970.4	4199252.17	59131.25208	20.78	20.78	0	ANNUAL	AREA	5
581959.42	4199230.22	74224.75386	20.98	20.98	0	ANNUAL	AREA	5
581986.74	4199228.27	76315.45162	20.17	20.17	0	ANNUAL	AREA	5
581927.71	4199356.58	25430.88263	22.18	22.18	0	ANNUAL	AREA	5
581932.59	4199330.23	30345.66585	22.93	22.93	0	ANNUAL	AREA	5
581932.59	4199311.21	34679.77809	23.07	23.07	0	ANNUAL	AREA	5
581930.15	4199287.79	41368.95887	22.99	22.99	0	ANNUAL	AREA	5
581918.44	4199251.2	56470.0623	23.28	23.28	0	ANNUAL	AREA	5
581932.1	4199230.22	72527.40787	22.1	22.1	0	ANNUAL	AREA	5
582023.82	4199299.01	40286.56803	19	19	0	ANNUAL	AREA	5
582053.58	4199299.5	40263.8528	18.89	18.89	0	ANNUAL	AREA	5
582024.79	4199274.62	48929.10465	19	19	0	ANNUAL	AREA	5
582027.72	4199249.74	60997.26662	19	19	0	ANNUAL	AREA	5
581996.99	4199252.17	59683.55686	19.89	19.89	0	ANNUAL	AREA	5
582057.48	4199232.66	70867.37935	18.87	18.87	0	ANNUAL	AREA	5
582103.83	4199266.81	50855.274	18	18	0	ANNUAL	AREA	5
581332.35	4199227.68	5003.51849	25.03	25.03	0	ANNUAL	AREA	5
581315.44	4199205.88	4801.68746	25	25	0	ANNUAL	AREA	5
581285.97	4199162.15	4495.78457	25	25	0	ANNUAL	AREA	5
581251.74	4199170.85	4065.06134	25	25	0	ANNUAL	AREA	5
581279.01	4199143.83	4446.40345	24.99	24.99	0	ANNUAL	AREA	5
581229.18	4199171.26	3826.08048	25.41	25.41	0	ANNUAL	AREA	5
581225.08	4199087.6	3938.86375	25	25	0	ANNUAL	AREA	5
581234.42	4199127.97	3963.64534	25	25	0	ANNUAL	AREA	5
581240.57	4199054.05	4154.00126	24.94	24.94	0	ANNUAL	AREA	5
581228.69	4199009.24	4071.57137	24.22	24.22	0	ANNUAL	AREA	5
581202.46	4198932.52	3829.31452	24.97	24.97	0	ANNUAL	AREA	5
581233.3	4198818.9	4025.60216	24.31	24.31	0	ANNUAL	AREA	5
581220.13	4198981.79	3999.37614	24.48	24.48	0	ANNUAL	AREA	5
581213.4	4198824.21	3838.46561	24.73	24.73	0	ANNUAL	AREA	5
581252.6	4198819.98	4232.10699	24	24	0	ANNUAL	AREA	5
581234.89	4199033.36	4116.18212	24.47	24.47	0	ANNUAL	AREA	5
581267.54	4198810.09	4385.85718	24.2	24.2	0	ANNUAL	AREA	5
581250.02	4198799.98	4170.56026	24.54	24.54	0	ANNUAL	AREA	5
581222.01	4198775.15	3843.48185	25.26	25.26	0	ANNUAL	AREA	5
581242.71	4198775.87	4049.53089	25.01	25.01	0	ANNUAL	AREA	5
581261.95	4198784.59	4274.02918	25	25	0	ANNUAL	AREA	5
581283.37	4198799.47	4557.0931	24.38	24.38	0	ANNUAL	AREA	5
581285.18	4198750.46	4467.43207	25.12	25.12	0	ANNUAL	AREA	5
581279.01	4198703.99	4272.12094	25.95	25.95	0	ANNUAL	AREA	5
581261.95	4198755.18	4211.69682	25.03	25.03	0	ANNUAL	AREA	5
581221.65	4198748.64	3790.10908	25.8	25.8	0	ANNUAL	AREA	5
581220.2	4198718.87	3718.77932	26	26	0	ANNUAL	AREA	5
581219.47	4198697.82	3670.32391	26	26	0	ANNUAL	AREA	5
581232.18	4198699.27	3787.24815	26	26	0	ANNUAL	AREA	5
581221.65	4198665.14	3616.08359	27.02	27.02	0	ANNUAL	AREA	5
581233.27	4198636.1	3648.26074	27.35	27.35	0	ANNUAL	AREA	5
581279.01	4198633.19	4064.85462	27	27	0	ANNUAL	AREA	5
581306.97	4198637.19	4374.23361	26.86	26.86	0	ANNUAL	AREA	5
581256.5	4198634.28	3851.2867	27.03	27.03	0	ANNUAL	AREA	5
581280.46	4198600.16	3975.17967	27.15	27.15	0	ANNUAL	AREA	5
581309.15	4198607.78	4290.46697	26.99	26.99	0	ANNUAL	AREA	5
581312.05	4198705.8	4673.76762	25.49	25.49	0	ANNUAL	AREA	5
581310.96	4198681.84	4579.20199	25.87	25.87	0	ANNUAL	AREA	5
581310.23	4198661.51	4499.98682	26.12	26.12	0	ANNUAL	AREA	5
581254.69	4198601.25	3742.08131	27.69	27.69	0	ANNUAL	AREA	5
581250.69	4198570.39	3620.02624	28	28	0	ANNUAL	AREA	5
581211.48	4198558.77	3290.39818	28.61	28.61	0	ANNUAL	AREA	5
581362.49	4198405.15	3776.04022	28.04	28.04	0	ANNUAL	AREA	5
581382.46	4198393.17	3836.31272	28.04	28.04	0	ANNUAL	AREA	5
581334.54	4198384.82	3493.47754	28.98	28.98	0	ANNUAL	AREA	5
581357.41	4198365.58	3527.15504	29	29	0	ANNUAL	AREA	5
581397.35	4198363.76	3746.36343	28	28	0	ANNUAL	AREA	5
581362.13	4198337.26	3402.34722	29	29	0	ANNUAL	AREA	5
581395.53	4198336.17	3568.51523	28	28	0	ANNUAL	AREA	5
581395.81	4198449.24	4292.45335	27.95	27.95	0	ANNUAL	AREA	5
581365.65	4198450.13	4056.35849	28	28	0	ANNUAL	AREA	5
581341.27	4198448.8	3862.2373	28.18	28.18	0	ANNUAL	AREA	5
581304.02	4198442.59	3565.19684	28.99	28.99	0	ANNUAL	AREA	5
581281.62	4198446.17	3429.26586	29	29	0	ANNUAL	AREA	5
581268.49	4198444.57	3337.91786	29.07	29.07	0	ANNUAL	AREA	5
581249.9	4198434.96	3188.64621	29.56	29.56	0	ANNUAL	AREA	5
581244.46	4198453.54	3216.91158	29.08	29.08	0	ANNUAL	AREA	5
581237.09	4198482.7	3260.10639	29.02	29.02	0	ANNUAL	AREA	5
581285.14	4198470.84	3548.7426	28.81	28.81	0	ANNUAL	AREA	5
581223.95	4198500	3223.69362	29	29	0	ANNUAL	AREA	5
581399.2	4198525.31	4850.2226	27	27	0	ANNUAL	AREA	5
581394.39	4198479.17	4482.60756	27.98	27.98	0	ANNUAL	AREA	5
581368.44	4198485.26	4286.09708	28	28	0	ANNUAL	AREA	5
581338.33	4198481.42	4006.10562	28	28	0	ANNUAL	AREA	5
581373.25	4198518.58	4531.70028	27.63	27.63	0	ANNUAL	AREA	5
581347.94	4198516.98	4274.17881	27.97	27.97	0	ANNUAL	AREA	5
581323.27	4198516.98	4047.73021	27.98	27.98	0	ANNUAL	AREA	5
581296.36	4198514.09	3805.17456	28.02	28.02	0	ANNUAL	AREA	5
581273.61	4198517.62	3636.07365	28	28	0	ANNUAL	AREA	5
581251.19	4198525.63	3489.79866	28.51	28.51	0	ANNUAL	AREA	5
581210.18	4198527.55	3204.5357	29	29	0	ANNUAL	AREA	5
581387.35	4198568.74	5001.89834	27	27	0	ANNUAL	AREA	5
581358.33	4198578.92	4711.5846	27	27	0	ANNUAL	AREA	5
581353.8	4198556.68	4543.72884	27	27	0	ANNUAL	AREA	5
581333.83	4198577.79	4431.04895	27	27	0	ANNUAL	AREA	5
581397.9	4198606.43	5388.30045	26	26	0	ANNUAL	AREA	5
581378.68	4198595.5	5055.87213	26.68	26.68	0	ANNUAL	AREA	5
581361.72	4198611.71	4924.38942	26.81	26.81	0	ANNUAL	AREA	5
581334.2	4198602.29	4544.72039	27	27	0	ANNUAL	AREA	5
581393.76	4198626.03	5453.14118	26	26	0	ANNUAL	AREA	5
581362.47	4198634.32	5051.71514	26.06	26.06	0	ANNUAL	AREA	5
581389.99	4198653.17	5558.50363	26	26	0	ANNUAL	AREA	5
581354.18	4198659.2	5056.22188	26	26	0	ANNUAL	AREA	5
581397.53	4198676.54	5821.79344	25.65	25.65	0	ANNUAL	AREA	5
581396.4	4198703.3	5955.31083	24.98	24.98	0	ANNUAL	AREA	5
581374.91	4198711.97	5621.64418	25	25	0	ANNUAL	AREA	5
581348.9	4198711.59	5205.18869	25	25	0	ANNUAL	AREA	5
581351.17	4198679.18	5104.36384	25.56	25.56	0	ANNUAL	AREA	5
581307.82	4198730.82	4696.57262	24.98	24.98	0	ANNUAL	AREA	5
581316.11	4198751.17	4866.37183	24.65	24.65	0	ANNUAL	AREA	5
581343.63	4198756.45	5284.48699	24	24	0	ANNUAL	AREA	5
581363.6	4198750.04	5588.86076	24.2	24.2	0	ANNUAL	AREA	5
581394.51	4198753.81	6174.10796	24.07	24.07	0	ANNUAL	AREA	5
581307.37	4199484.08	3942.88503	23.64	23.64	0	ANNUAL	AREA	5
581306.63	4199519.17	3814.24413	22.96	22.96	0	ANNUAL	AREA	5
581305.79	4199542.41	3724.79418	22.93	22.93	0	ANNUAL	AREA	5
581308.43	4199565.41	3662.19498	22.84	22.84	0	ANNUAL	AREA	5
581298.63	4199590.29	3497.25345	22.36	22.36	0	ANNUAL	AREA	5
581245.84	4199606.13	3097.6028	23.28	23.28	0	ANNUAL	AREA	5
581251.5	4199575.59	3218.35596	24.42	24.42	0	ANNUAL	AREA	5
581253.01	4199519.78	3375.82591	24.86	24.86	0	ANNUAL	AREA	5
581302.4	4199614.8	3432.77853	21.42	21.42	0	ANNUAL	AREA	5
581302.02	4199640.06	3336.85471	21.06	21.06	0	ANNUAL	AREA	5
581247.35	4199633.27	3029.94779	22	22	0	ANNUAL	AREA	5
581242.83	4199661.55	2926.38493	22.01	22.01	0	ANNUAL	AREA	5
581294.48	4199686.06	3127.8626	21.31	21.31	0	ANNUAL	AREA	5
581295.99	4199664.19	3213.73438	21.26	21.26	0	ANNUAL	AREA	5
581291.84	4199715.09	3014.76944	22.36	22.36	0	ANNUAL	AREA	5
581294.86	4199751.29	2905.64505	23.47	23.47	0	ANNUAL	AREA	5
581267.34	4199747.52	2796.40986	24.25	24.25	0	ANNUAL	AREA	5
581242.45	4199753.17	2673.02587	25.04	25.04	0	ANNUAL	AREA	5
581356.69	4199484.34	4447.47262	22.79	22.79	0	ANNUAL	AREA	5
581388.74	4199482.83	4822.44197	22.13	22.13	0	ANNUAL	AREA	5
581424.94	4199488.49	5236.18858	21.59	21.59	0	ANNUAL	AREA	5
581350.66	4199516.77	4233.43858	22.28	22.28	0	ANNUAL	AREA	5
581352.17	4199542.78	4125.80635	21.86	21.86	0	ANNUAL	AREA	5
581349.53	4199567.29	3986.37221	21.43	21.43	0	ANNUAL	AREA	5
581349.53	4199589.91	3878.34943	20.68	20.68	0	ANNUAL	AREA	5
581345.38	4199616.68	3721.93433	20.19	20.19	0	ANNUAL	AREA	5

581960.2	4199309	0.27639	21.24	21.24	0	ANNUAL	LINE	5
581989.9	4199310	0.28208	19.71	19.71	0	ANNUAL	LINE	5
581964.1	4199291	0.30003	20.99	20.99	0	ANNUAL	LINE	5
581993.8	4199292	0.30564	20	20	0	ANNUAL	LINE	5
581946	4199253	0.35292	21.59	21.59	0	ANNUAL	LINE	5
581970.4	4199252	0.36243	20.78	20.78	0	ANNUAL	LINE	5
581959.4	4199230	0.40266	20.98	20.98	0	ANNUAL	LINE	5
581986.7	4199228	0.41452	20.17	20.17	0	ANNUAL	LINE	5
581927.7	4199357	0.22116	22.18	22.18	0	ANNUAL	LINE	5
581932.6	4199330	0.24449	22.93	22.93	0	ANNUAL	LINE	5
581932.6	4199311	0.26368	23.07	23.07	0	ANNUAL	LINE	5
581930.2	4199288	0.29078	22.99	22.99	0	ANNUAL	LINE	5
581918.4	4199251	0.33931	23.28	23.28	0	ANNUAL	LINE	5
581932.1	4199230	0.38957	22.1	22.1	0	ANNUAL	LINE	5
582023.8	4199299	0.30165	19	19	0	ANNUAL	LINE	5
582053.6	4199300	0.30476	18.89	18.89	0	ANNUAL	LINE	5
582024.8	4199275	0.33587	19	19	0	ANNUAL	LINE	5
582027.7	4199250	0.37775	19	19	0	ANNUAL	LINE	5
581997	4199252	0.36867	19.89	19.89	0	ANNUAL	LINE	5
582057.5	4199233	0.41373	18.87	18.87	0	ANNUAL	LINE	5
582103.8	4199267	0.35459	18	18	0	ANNUAL	LINE	5
581332.4	4199228	0.07212	25.03	25.03	0	ANNUAL	LINE	5
581315.4	4199206	0.07042	25	25	0	ANNUAL	LINE	5
581286	4199162	0.06684	25	25	0	ANNUAL	LINE	5
581251.7	4199171	0.06147	25	25	0	ANNUAL	LINE	5
581279	4199144	0.06624	24.99	24.99	0	ANNUAL	LINE	5
581229.2	4199171	0.05718	25.41	25.41	0	ANNUAL	LINE	5
581225.1	4199088	0.05969	25	25	0	ANNUAL	LINE	5
581234.4	4199128	0.06008	25	25	0	ANNUAL	LINE	5
581240.6	4199054	0.06253	24.94	24.94	0	ANNUAL	LINE	5
581228.7	4199009	0.06183	24.22	24.22	0	ANNUAL	LINE	5
581202.5	4198933	0.0588	24.97	24.97	0	ANNUAL	LINE	5
581233.3	4198819	0.06298	24.31	24.31	0	ANNUAL	LINE	5
581220.1	4198982	0.06092	24.48	24.48	0	ANNUAL	LINE	5
581213.4	4198824	0.06009	24.73	24.73	0	ANNUAL	LINE	5
581252.6	4198820	0.06604	24	24	0	ANNUAL	LINE	5
581234.9	4199033	0.06224	24.47	24.47	0	ANNUAL	LINE	5
581267.5	4198810	0.06828	24.2	24.2	0	ANNUAL	LINE	5
581250	4198800	0.06521	24.54	24.54	0	ANNUAL	LINE	5
581222	4198775	0.0602	25.26	25.26	0	ANNUAL	LINE	5
581242.7	4198776	0.06342	25.01	25.01	0	ANNUAL	LINE	5
581262	4198785	0.06673	25	25	0	ANNUAL	LINE	5
581283.4	4198799	0.07079	24.38	24.38	0	ANNUAL	LINE	5
581285.2	4198750	0.06954	25.12	25.12	0	ANNUAL	LINE	5
581279	4198704	0.0657	25.95	25.95	0	ANNUAL	LINE	5
581262	4198755	0.06601	25.03	25.03	0	ANNUAL	LINE	5
581221.7	4198749	0.05866	25.8	25.8	0	ANNUAL	LINE	5
581220.2	4198719	0.05778	26	26	0	ANNUAL	LINE	5
581219.5	4198698	0.05725	26	26	0	ANNUAL	LINE	5
581232.2	4198699	0.0589	26	26	0	ANNUAL	LINE	5
581221.7	4198665	0.05335	27.02	27.02	0	ANNUAL	LINE	5
581233.3	4198636	0.05362	27.35	27.35	0	ANNUAL	LINE	5
581279	4198633	0.06031	27	27	0	ANNUAL	LINE	5
581307	4198637	0.06478	26.86	26.86	0	ANNUAL	LINE	5
581256.5	4198634	0.05649	27.03	27.03	0	ANNUAL	LINE	5
581280.5	4198600	0.05817	27.15	27.15	0	ANNUAL	LINE	5
581309.2	4198608	0.06359	26.99	26.99	0	ANNUAL	LINE	5
581312.1	4198706	0.07261	25.49	25.49	0	ANNUAL	LINE	5
581311	4198682	0.07037	25.87	25.87	0	ANNUAL	LINE	5
581310.2	4198662	0.06844	26.12	26.12	0	ANNUAL	LINE	5
581254.7	4198601	0.05472	27.69	27.69	0	ANNUAL	LINE	5
581250.7	4198570	0.05296	28	28	0	ANNUAL	LINE	5
581211.5	4198559	0.04825	28.61	28.61	0	ANNUAL	LINE	5
581362.5	4198405	0.05783	28.04	28.04	0	ANNUAL	LINE	5
581382.5	4198393	0.05933	28.04	28.04	0	ANNUAL	LINE	5
581334.5	4198385	0.05287	28.98	28.98	0	ANNUAL	LINE	5
581357.4	4198366	0.05401	29	29	0	ANNUAL	LINE	5
581397.4	4198364	0.05901	28	28	0	ANNUAL	LINE	5
581362.1	4198337	0.05278	29	29	0	ANNUAL	LINE	5
581395.5	4198336	0.0569	28	28	0	ANNUAL	LINE	5
581395.8	4198449	0.06501	27.95	27.95	0	ANNUAL	LINE	5
581365.7	4198450	0.06104	28	28	0	ANNUAL	LINE	5
581341.3	4198449	0.05781	28.18	28.18	0	ANNUAL	LINE	5
581304	4198443	0.05271	28.99	28.99	0	ANNUAL	LINE	5
581281.6	4198446	0.05061	29	29	0	ANNUAL	LINE	5
581268.5	4198445	0.04923	29.07	29.07	0	ANNUAL	LINE	5
581249.9	4198435	0.04686	29.56	29.56	0	ANNUAL	LINE	5
581244.5	4198454	0.04737	29.08	29.08	0	ANNUAL	LINE	5
581237.1	4198483	0.04781	29.02	29.02	0	ANNUAL	LINE	5
581285.1	4198471	0.05216	28.81	28.81	0	ANNUAL	LINE	5
581224	4198500	0.04724	29	29	0	ANNUAL	LINE	5
581399.2	4198525	0.0737	27	27	0	ANNUAL	LINE	5
581394.4	4198479	0.06692	27.98	27.98	0	ANNUAL	LINE	5
581368.4	4198485	0.0636	28	28	0	ANNUAL	LINE	5
581338.3	4198481	0.0594	28	28	0	ANNUAL	LINE	5
581373.3	4198519	0.06677	27.63	27.63	0	ANNUAL	LINE	5
581347.9	4198517	0.06266	27.97	27.97	0	ANNUAL	LINE	5
581323.3	4198517	0.05935	27.98	27.98	0	ANNUAL	LINE	5
581296.4	4198514	0.05588	28.02	28.02	0	ANNUAL	LINE	5
581273.6	4198518	0.05346	28	28	0	ANNUAL	LINE	5
581251.2	4198526	0.05106	28.51	28.51	0	ANNUAL	LINE	5
581210.2	4198528	0.04692	29	29	0	ANNUAL	LINE	5
581387.4	4198569	0.07447	27	27	0	ANNUAL	LINE	5
581358.3	4198579	0.06995	27	27	0	ANNUAL	LINE	5
581353.8	4198557	0.06801	27	27	0	ANNUAL	LINE	5
581333.8	4198578	0.06595	27	27	0	ANNUAL	LINE	5
581397.9	4198606	0.0837	26	26	0	ANNUAL	LINE	5
581378.7	4198596	0.07558	26.68	26.68	0	ANNUAL	LINE	5
581361.7	4198612	0.07286	26.81	26.81	0	ANNUAL	LINE	5
581334.2	4198602	0.06718	27	27	0	ANNUAL	LINE	5
581393.8	4198626	0.08399	26	26	0	ANNUAL	LINE	5
581362.5	4198634	0.07675	26.06	26.06	0	ANNUAL	LINE	5
581390	4198653	0.0847	26	26	0	ANNUAL	LINE	5
581354.2	4198659	0.07734	26	26	0	ANNUAL	LINE	5
581397.5	4198677	0.08836	25.65	25.65	0	ANNUAL	LINE	5
581396.4	4198703	0.09254	24.98	24.98	0	ANNUAL	LINE	5
581374.9	4198712	0.0874	25	25	0	ANNUAL	LINE	5
581348.9	4198712	0.08136	25	25	0	ANNUAL	LINE	5
581351.2	4198679	0.07823	25.56	25.56	0	ANNUAL	LINE	5
581307.8	4198731	0.07363	24.98	24.98	0	ANNUAL	LINE	5
581316.1	4198751	0.07586	24.65	24.65	0	ANNUAL	LINE	5
581343.6	4198756	0.08208	24	24	0	ANNUAL	LINE	5
581363.6	4198750	0.08645	24.2	24.2	0	ANNUAL	LINE	5
581394.5	4198754	0.09478	24.07	24.07	0	ANNUAL	LINE	5
581307.4	4199484	0.05761	23.64	23.64	0	ANNUAL	LINE	5
581306.6	4199519	0.05587	22.96	22.96	0	ANNUAL	LINE	5
581305.8	4199542	0.05461	22.93	22.93	0	ANNUAL	LINE	5
581308.4	4199565	0.05368	22.84	22.84	0	ANNUAL	LINE	5
581298.6	4199590	0.05169	22.36	22.36	0	ANNUAL	LINE	5
581245.8	4199606	0.04694	23.28	23.28	0	ANNUAL	LINE	5
581251.5	4199576	0.04845	24.42	24.42	0	ANNUAL	LINE	5
581253	4199520	0.05075	24.86	24.86	0	ANNUAL	LINE	5
581302.4	4199615	0.05083	21.42	21.42	0	ANNUAL	LINE	5
581302	4199640	0.04956	21.06	21.06	0	ANNUAL	LINE	5
581247.4	4199633	0.04609	22	22	0	ANNUAL	LINE	5
581242.8	4199662	0.04468	22.01	22.01	0	ANNUAL	LINE	5
581294.5	4199686	0.04686	21.31	21.31	0	ANNUAL	LINE	5
581296	4199664	0.04799	21.26	21.26	0	ANNUAL	LINE	5
581291.8	4199715	0.04533	22.36	22.36	0	ANNUAL	LINE	5
581294.9	4199751	0.04381	23.47	23.47	0	ANNUAL	LINE	5
581267.3	4199748	0.04246	24.25	24.25	0	ANNUAL	LINE	5
581242.5	4199753	0.04072	25.04	25.04	0	ANNUAL	LINE	5
581356.7	4199484	0.06311	22.79	22.79	0	ANNUAL	LINE	5
581388.7	4199483	0.06711	22.13	22.13	0	ANNUAL	LINE	5
581424.9	4199488	0.07123	21.59	21.59	0	ANNUAL	LINE	5
581350.7	4199517	0.06049	22.28	22.28	0	ANNUAL	LINE	5
581352.2	4199543	0.05906	21.86	21.86	0	ANNUAL	LINE	5
581349.5	4199567	0.05733	21.43	21.43	0	ANNUAL	LINE	5
581349.5	4199590	0.05598	20.68	20.68	0	ANNUAL	LINE	5
581345.4	4199617	0.05405	20.19	20.19	0	ANNUAL	LINE	5

581344.63	4199641.57	3603.44907	20	20	0	ANNUAL	AREA	5
581421.55	4199522.05	4953.3224	21.03	21.03	0	ANNUAL	AREA	5
581425.69	4199546.18	4827.46122	20.98	20.98	0	ANNUAL	AREA	5
581427.2	4199570.31	4670.1796	20.76	20.76	0	ANNUAL	AREA	5
581430.97	4199595.57	4522.90205	20.01	20.01	0	ANNUAL	AREA	5
581437	4199619.7	4401.46011	19.65	19.65	0	ANNUAL	AREA	5
581440.77	4199641.19	4277.68219	19.21	19.21	0	ANNUAL	AREA	5
581402.32	4199664.19	3866.68828	19.19	19.19	0	ANNUAL	AREA	5
581344.63	4199665.7	3496.11606	20.2	20.2	0	ANNUAL	AREA	5
581341.24	4199692.47	3360.75487	20.91	20.91	0	ANNUAL	AREA	5
581341.61	4199716.98	3259.06858	21.48	21.48	0	ANNUAL	AREA	5
581451.71	4199669.85	4152.29916	19	19	0	ANNUAL	AREA	5
581461.89	4199694.35	4044.34795	19	19	0	ANNUAL	AREA	5
581475.84	4199719.24	3948.0352	19.03	19.03	0	ANNUAL	AREA	5
581487.03	4199748.9	3798.04292	19.08	19.08	0	ANNUAL	AREA	5
581460.44	4199778.95	3496.19168	20	20	0	ANNUAL	AREA	5
581518.46	4199791.04	3637.97712	19	19	0	ANNUAL	AREA	5
581538.75	4199811.55	3567.1586	19	19	0	ANNUAL	AREA	5
581552.96	4199836.16	3444.02813	18.69	18.69	0	ANNUAL	AREA	5
581562.08	4199859.7	3315.68731	18.39	18.39	0	ANNUAL	AREA	5
581583.08	4199898.51	3124.07711	18	18	0	ANNUAL	AREA	5
581588.38	4199926.09	2977.10492	18	18	0	ANNUAL	AREA	5
581631.86	4199979.11	2758.05066	17.01	17.01	0	ANNUAL	AREA	5
581589.02	4199979.11	2704.3174	17.23	17.23	0	ANNUAL	AREA	5
581562.36	4199978.2	2673.71597	17.54	17.54	0	ANNUAL	AREA	5
581537.85	4199981.37	2626.11365	18.03	18.03	0	ANNUAL	AREA	5
581516.98	4199980.01	2601.87135	18.18	18.18	0	ANNUAL	AREA	5
581492.7	4199980.24	2564.51116	18.76	18.76	0	ANNUAL	AREA	5
581552.37	4199930.55	2892.45928	18	18	0	ANNUAL	AREA	5
581520.84	4199929.42	2843.07809	18.76	18.76	0	ANNUAL	AREA	5
581495.88	4199929.64	2795.68848	19.52	19.52	0	ANNUAL	AREA	5
581473.65	4199978.65	2541.25163	19.42	19.42	0	ANNUAL	AREA	5
581463.66	4199927.37	2741.03104	20.01	20.01	0	ANNUAL	AREA	5
581401.95	4199980.01	2411.00066	21.73	21.73	0	ANNUAL	AREA	5
581408.98	4199930.32	2609.96894	21.49	21.49	0	ANNUAL	AREA	5
581352.04	4199977.97	2319.50229	22.49	22.49	0	ANNUAL	AREA	5
581323.19	4199978.15	2259.66071	23.61	23.61	0	ANNUAL	AREA	5
581287.95	4199974.38	2194.82598	24.39	24.39	0	ANNUAL	AREA	5
581262.7	4199971.92	2145.4617	24.47	24.47	0	ANNUAL	AREA	5
581262.54	4199928.16	2258.72379	25	25	0	ANNUAL	AREA	5
581262.7	4199911.27	2304.34678	25	25	0	ANNUAL	AREA	5
581266.31	4199890.62	2370.96148	25	25	0	ANNUAL	AREA	5
581268.77	4199871.27	2432.7778	25	25	0	ANNUAL	AREA	5
581278.28	4199849.14	2527.687	25	25	0	ANNUAL	AREA	5
581301.06	4199848.65	2604.17752	25	25	0	ANNUAL	AREA	5
581246.47	4199838	2454.33277	25.85	25.85	0	ANNUAL	AREA	5
581242.54	4199793.41	2562.19341	25.59	25.59	0	ANNUAL	AREA	5
581263.03	4199793.57	2639.79671	25.21	25.21	0	ANNUAL	AREA	5
581292.7	4199794.89	2750.46021	24.76	24.76	0	ANNUAL	AREA	5
581318.11	4199801.77	2825.17099	24.38	24.38	0	ANNUAL	AREA	5
581341.88	4199796.36	2937.36729	23.13	23.13	0	ANNUAL	AREA	5
581362.53	4199800.3	3000.79484	21.89	21.89	0	ANNUAL	AREA	5
581323.52	4199847.18	2683.28763	24.58	24.58	0	ANNUAL	AREA	5
581343.03	4199849.14	2740.32883	23.99	23.99	0	ANNUAL	AREA	5
581364.5	4199849.47	2808.47536	22.96	22.96	0	ANNUAL	AREA	5
581390.4	4199807.51	3075.01788	21.12	21.12	0	ANNUAL	AREA	5
581445.97	4199817.34	3227.46356	20.26	20.26	0	ANNUAL	AREA	5
581425.97	4199850.62	2996.91748	20.92	20.92	0	ANNUAL	AREA	5
581409.94	4199874.8	2840.88496	21.46	21.46	0	ANNUAL	AREA	5
581409.66	4199902.74	2722.25313	21.47	21.47	0	ANNUAL	AREA	5
581371.49	4199931.51	2518.78283	22.61	22.61	0	ANNUAL	AREA	5
581375.36	4199912.7	2596.80354	22.61	22.61	0	ANNUAL	AREA	5
581375.91	4199891.4	2678.69883	22.59	22.59	0	ANNUAL	AREA	5
581376.47	4199871.76	2757.00871	22.57	22.57	0	ANNUAL	AREA	5
581461.11	4199895.55	2880.56743	20	20	0	ANNUAL	AREA	5
581468.03	4199866.23	3041.82876	20	20	0	ANNUAL	AREA	5
581497.63	4199875.63	3069.57883	19.54	19.54	0	ANNUAL	AREA	5
581479.09	4199836.08	3234.13574	20	20	0	ANNUAL	AREA	5
581492.92	4199814.78	3400.7377	19.69	19.69	0	ANNUAL	AREA	5
581336.7	4199748.12	3106.48012	21.96	21.96	0	ANNUAL	AREA	5
581373.21	4199756.97	3234.28429	20.68	20.68	0	ANNUAL	AREA	5
581402.26	4199763.06	3334.29349	19.88	19.88	0	ANNUAL	AREA	5
581428.26	4199770.53	3409.03698	19.84	19.84	0	ANNUAL	AREA	5
581303.4	4199932.97	2348.21029	24.24	24.24	0	ANNUAL	AREA	5
581303.4	4199915.73	2400.00887	24.35	24.35	0	ANNUAL	AREA	5
581303.72	4199889.36	2482.50988	25	25	0	ANNUAL	AREA	5
581322.93	4199889.69	2536.5316	24.5	24.5	0	ANNUAL	AREA	5
581338.22	4199891.64	2573.2301	23.97	23.97	0	ANNUAL	AREA	5
581337.25	4199911.82	2501.76137	23.88	23.88	0	ANNUAL	AREA	5
581335.29	4199934.6	2421.80139	23.93	23.93	0	ANNUAL	AREA	5
581660.43	4199983.35	2771.45099	17	17	0	ANNUAL	AREA	5
581684.84	4199976.51	2837.03322	17	17	0	ANNUAL	AREA	5
581758.4	4199984.65	2886.81573	17	17	0	ANNUAL	AREA	5
581784.44	4199982.05	2936.61213	17	17	0	ANNUAL	AREA	5
581816.02	4199984.98	2964.34317	17	17	0	ANNUAL	AREA	5
581918.55	4199982.05	3134.93121	17	17	0	ANNUAL	AREA	5
581946.87	4199983.02	3171.43564	17	17	0	ANNUAL	AREA	5
581994.06	4199980.75	3254.99755	17	17	0	ANNUAL	AREA	5
582111.24	4199980.42	3404.2268	16.25	16.25	0	ANNUAL	AREA	5
582160.39	4199979.77	3457.82037	16.09	16.09	0	ANNUAL	AREA	5
582207.59	4199983.02	3472.96749	16	16	0	ANNUAL	AREA	5
582284.08	4199981.07	3527.84657	16.73	16.73	0	ANNUAL	AREA	5
582327.7	4199982.05	3528.90079	17	17	0	ANNUAL	AREA	5
582373.6	4199981.4	3527.78346	17	17	0	ANNUAL	AREA	5
581315.24	4198399.36	3446.46794	29	29	0	ANNUAL	AREA	5
582134.71	4198990.12	650745.8291	19.14	19.14	0	ANNUAL	AREA	5
582125.44	4198926.15	577770.0205	20.33	20.33	0	ANNUAL	AREA	5
582252.02	4199100.18	145439.3917	19	19	0	ANNUAL	AREA	5
582255.58	4199204.8	65677.52896	18.73	18.73	0	ANNUAL	AREA	5
581419.33	4199014.86	7362.48658	22.15	22.15	0	ANNUAL	AREA	5
581399.98	4199020.94	6852.39546	22.79	22.79	0	ANNUAL	AREA	5
581428	4199033.85	7585.6612	22	22	0	ANNUAL	AREA	5
581405.32	4199060.39	6920.69827	22.61	22.61	0	ANNUAL	AREA	5
581419.7	4199048.41	7323.68672	22.13	22.13	0	ANNUAL	AREA	5
581509.1	4199094.3	10636.09479	23	23	0	ANNUAL	AREA	5
581516.42	4199089.9	11049.83106	23.09	23.09	0	ANNUAL	AREA	5
581526	4199084.85	11631.55465	23.41	23.41	0	ANNUAL	AREA	5
581532.63	4199094.65	11992.80349	23.63	23.63	0	ANNUAL	AREA	5
581537.11	4199109.97	12185.36247	23.78	23.78	0	ANNUAL	AREA	5
581526.79	4199116.24	11501.62758	23.44	23.44	0	ANNUAL	AREA	5
581398.77	4199308.68	5906.83367	25	25	0	ANNUAL	AREA	5

** CONCUNIT ug/ m^3
** DEPUNIT g/m^ 2

581344.6	4199642	0.05256	20	20	0	ANNUAL	LINE	5
581421.6	4199522	0.06795	21.03	21.03	0	ANNUAL	LINE	5
581425.7	4199546	0.06638	20.98	20.98	0	ANNUAL	LINE	5
581427.2	4199570	0.06453	20.76	20.76	0	ANNUAL	LINE	5
581431	4199596	0.06283	20.01	20.01	0	ANNUAL	LINE	5
581437	4199620	0.06143	19.65	19.65	0	ANNUAL	LINE	5
581440.8	4199641	0.06004	19.21	19.21	0	ANNUAL	LINE	5
581402.3	4199664	0.0554	19.19	19.19	0	ANNUAL	LINE	5
581344.6	4199666	0.0512	20.2	20.2	0	ANNUAL	LINE	5
581341.2	4199692	0.04952	20.91	20.91	0	ANNUAL	LINE	5
581341.6	4199717	0.04823	21.48	21.48	0	ANNUAL	LINE	5
581451.7	4199670	0.05865	19	19	0	ANNUAL	LINE	5
581461.9	4199694	0.05749	19	19	0	ANNUAL	LINE	5
581475.8	4199719	0.05652	19.03	19.03	0	ANNUAL	LINE	5
581487	4199749	0.05496	19.08	19.08	0	ANNUAL	LINE	5
581460.4	4199779	0.05136	20	20	0	ANNUAL	LINE	5
581518.5	4199791	0.05353	19	19	0	ANNUAL	LINE	5
581538.8	4199812	0.05299	19	19	0	ANNUAL	LINE	5
581553	4199836	0.05181	18.69	18.69	0	ANNUAL	LINE	5
581562.1	4199860	0.05048	18.39	18.39	0	ANNUAL	LINE	5
581583.1	4199899	0.04856	18	18	0	ANNUAL	LINE	5
581588.4	4199926	0.0469	18	18	0	ANNUAL	LINE	5
581631.9	4199979	0.04479	17.01	17.01	0	ANNUAL	LINE	5
581589	4199979	0.04364	17.23	17.23	0	ANNUAL	LINE	5
581562.4	4199978	0.04296	17.54	17.54	0	ANNUAL	LINE	5
581537.9	4199981	0.04211	18.03	18.03	0	ANNUAL	LINE	5
581517	4199980	0.04159	18.18	18.18	0	ANNUAL	LINE	5
581492.7	4199980	0.04088	18.76	18.76	0	ANNUAL	LINE	5
581552.4	4199931	0.04546	18	18	0	ANNUAL	LINE	5
581520.8	4199929	0.04451	18.76	18.76	0	ANNUAL	LINE	5
581495.9	4199930	0.04367	19.52	19.52	0	ANNUAL	LINE	5
581473.7	4199979	0.04041	19.42	19.42	0	ANNUAL	LINE	5
581463.7	4199927	0.0427	20.01	20.01	0	ANNUAL	LINE	5
581402	4199980	0.03818	21.73	21.73	0	ANNUAL	LINE	5
581409	4199930	0.04065	21.49	21.49	0	ANNUAL	LINE	5
581352	4199978	0.03671	22.49	22.49	0	ANNUAL	LINE	5
581323.2	4199978	0.03577	23.61	23.61	0	ANNUAL	LINE	5
581288	4199974	0.03478	24.39	24.39	0	ANNUAL	LINE	5
581262.7	4199972	0.03408	24.47	24.47	0	ANNUAL	LINE	5
581262.5	4199928	0.03551	25	25	0	ANNUAL	LINE	5
581262.7	4199911	0.03609	25	25	0	ANNUAL	LINE	5
581266.3	4199891	0.03695	25	25	0	ANNUAL	LINE	5
581268.8	4199871	0.03774	25	25	0	ANNUAL	LINE	5
581278.3	4199849	0.03894	25	25	0	ANNUAL	LINE	5
581301.1	4199849	0.03991	25	25	0	ANNUAL	LINE	5
581246.5	4199838	0.03673	25.85	25.85	0	ANNUAL	LINE	5
581242.5	4199793	0.0383	25.59	25.59	0	ANNUAL	LINE	5
581263	4199794	0.03997	25.21	25.21	0	ANNUAL	LINE	5
581292.7	4199795	0.04175	24.76	24.76	0	ANNUAL	LINE	5
581318.1	4199802	0.04269	24.38	24.38	0	ANNUAL	LINE	5
581341.9	4199796	0.04417	23.13	23.13	0	ANNUAL	LINE	5
581362.5	4199800	0.04507	21.89	21.89	0	ANNUAL	LINE	5
581323.5	4199847	0.04094	24.58	24.58	0	ANNUAL	LINE	5
581343	4199849	0.04172	23.99	23.99	0	ANNUAL	LINE	5
581364.5	4199849	0.04269	22.96	22.96	0	ANNUAL	LINE	5
581390.4	4199808	0.04607	21.12	21.12	0	ANNUAL	LINE	5
581446	4199817	0.04819	20.26	20.26	0	ANNUAL	LINE	5
581426	4199851	0.04537	20.92	20.92	0	ANNUAL	LINE	5
581409.9	4199875	0.04341	21.46	21.46	0	ANNUAL	LINE	5
581409.7	4199903	0.042	21.47	21.47	0	ANNUAL	LINE	5
581371.5	4199932	0.03925	22.61	22.61	0	ANNUAL	LINE	5
581375.4	4199913	0.04022	22.61	22.61	0	ANNUAL	LINE	5
581375.9	4199891	0.04121	22.59	22.59	0	ANNUAL	LINE	5
581376.5	4199872	0.04215	22.57	22.57	0	ANNUAL	LINE	5
581461.1	4199896	0.04431	20	20	0	ANNUAL	LINE	5
581468	4199866	0.04625	20	20	0	ANNUAL	LINE	5
581497.6	4199876	0.04688	19.54	19.54	0	ANNUAL	LINE	5
581479.1	4199836	0.04856	20	20	0	ANNUAL	LINE	5
581492.9	4199815	0.05059	19.69	19.69	0	ANNUAL	LINE	5
581336.7	4199748	0.04634	21.96	21.96	0	ANNUAL	LINE	5
581373.2	4199757	0.04793	20.68	20.68	0	ANNUAL	LINE	5
581402.3	4199763	0.04918	19.88	19.88	0	ANNUAL	LINE	5
581428.3	4199771	0.05016	19.84	19.84	0	ANNUAL	LINE	5
581303.4	4199933	0.03677	24.24	24.24	0	ANNUAL	LINE	5
581303.4	4199916	0.03741	24.35	24.35	0	ANNUAL	LINE	5
581303.7	4199889	0.0384	25	25	0	ANNUAL	LINE	5
581322.9	4199890	0.03915	24.5	24.5	0	ANNUAL	LINE	5
581338.2	4199892	0.03968	23.97	23.97	0	ANNUAL	LINE	5
581337.3	4199912	0.0388	23.88	23.88	0	ANNUAL	LINE	5
581335.3	4199935	0.03781	23.93	23.93	0	ANNUAL	LINE	5
581660.4	4199983	0.04527	17	17	0	ANNUAL	LINE	5
581684.8	4199977	0.04635	17	17	0	ANNUAL	LINE	5
581758.4	4199985	0.04766	17	17	0	ANNUAL	LINE	5
581784.4	4199982	0.04848	17	17	0	ANNUAL	LINE	5
581816	4199985	0.04903	17	17	0	ANNUAL	LINE	5
581918.6	4199982	0.05161	17	17	0	ANNUAL	LINE	5
581946.9	4199983	0.05212	17	17	0	ANNUAL	LINE	5
581994.1	4199981	0.05322	17	17	0	ANNUAL	LINE	5
582111.2	4199980	0.05503	16.25	16.25	0	ANNUAL	LINE	5
582160.4	4199980	0.05566	16.09	16.09	0	ANNUAL	LINE	5
582207.6	4199983	0.05581	16	16	0	ANNUAL	LINE	5
582284.1	4199981	0.05657	16.73	16.73	0	ANNUAL	LINE	5
582327.7	4199982	0.05668	17	17	0	ANNUAL	LINE	5
582373.6	4199981	0.05683	17	17	0	ANNUAL	LINE	5
581315.2	4198399	0.05172	29	29	0	ANNUAL	LINE	5
582134.7	4198990	1.9933	19.14	19.14	0	ANNUAL	LINE	5
582125.4	4198926	3.50924	20.33	20.33	0	ANNUAL	LINE	5
582252	4199100	0.83784	19	19	0	ANNUAL	LINE	5
582255.6	4199205	0.47339	18.73	18.73	0	ANNUAL	LINE	5
581419.3	4199015	0.10529	22.15	22.15	0	ANNUAL	LINE	5
581400	4199021	0.09816	22.79	22.79	0	ANNUAL	LINE	5
581428	4199034	0.10764	22	22	0	ANNUAL	LINE	5
581405.3	4199060	0.09836	22.61	22.61	0	ANNUAL	LINE	5
581419.7	4199048	0.10397	22.13	22.13	0	ANNUAL	LINE	5
581509.1	4199094	0.13702	23	23	0	ANNUAL	LINE	5
581516.4	4199090	0.14123	23.09	23.09	0	ANNUAL	LINE	5
581526	4199085	0.14667	23.41	23.41	0	ANNUAL	LINE	5
581532.6	4199095	0.14901	23.63	23.63	0	ANNUAL	LINE	5
581537.1	4199110	0.14938	23.78	23.78	0	ANNUAL	LINE	5
581526.8	4199116	0.14318	23.44	23.44	0	ANNUAL	LINE	5
581398.8	4199309	0.08095	25	25	0	ANNUAL	LINE	5

** CONCUNIT m^3
** DEPUNIT g 2