Ministry of Energy and Mineral Resources

The Hashemite Kingdom Of Jordan

# WADI LUBNAN

***"PROPOSED AREA FOR INVESTMENT OPPORTUNITY"***

***"Gold, Base Metals, & REEs"***

***"Brief"***

**Geology and Mining Directorate**

**Geological and Geochemical Surveys Division**

**JANUARY 23, 2025**

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# 1. OVERVIEW

## 1.1. Objective

The aim is to open the area for private sector investment for exploration as it has been identified through a previous regional geochemical survey as containing significant anomalies indicating the presence of base metals, REEs and niobium, and elevated values of gold.

## 1.2. Area of Interest

The proposed area is located in the Aqaba Governorate region, about 13 km southeast of the city of Aqaba, and encompassing approximately 80 $\mathrm{km}^2$ (Table-1) (Fig. 1).

Its proximity to infrastructures such as tarmac roads, power lines, and the Aqaba port, enhances the project's development potential.

High mountains with rugged surfaces form the prominent terrain element with wide, deeply incised valleys. Elevations range from 416m to 1424m a.m.s.l (Fig. 2).

Table 1: Wadi Lubnan proposed investment area coordinates.

| P | X (WGS 84 / UTM 36N) | Y (WGS 84 / UTM 36N) |
|---|---|---|
| 1 | 704839 | 3247031 |
| 2 | 698378 | 3248353 |
| 3 | 698560 | 3253412 |
| 4 | 702470 | 3258612 |
| 5 | 703451 | 3257773 |
| 6 | 707483 | 3258819 |
| 7 | 708531 | 3252794 |
| 8 | 705904 | 3251741 |

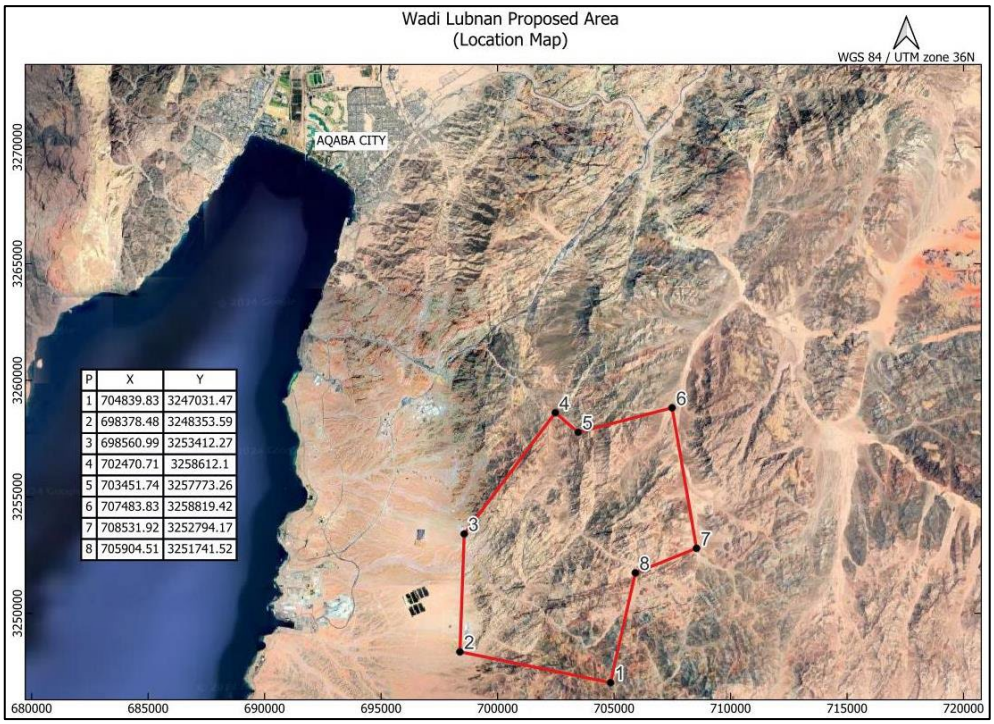


Figure 1: Location map of Wadi Lubnan proposed area.

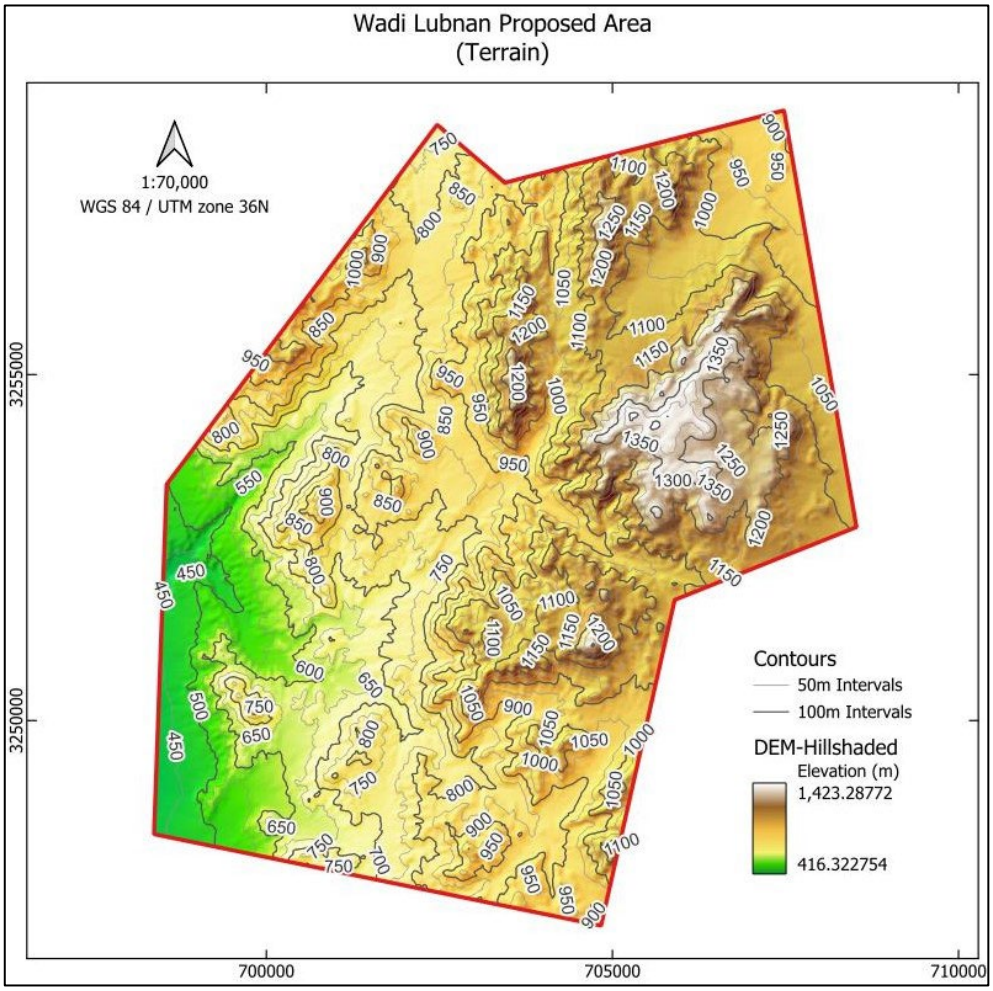


Figure 2: DEM and elevations of Wadi Lubnan proposed area.

## 1.3. Previous Work

A regional geochemical survey was conducted on the basement igneous rocks in the southern part of the Kingdom by the Geochemical Survey Division (formerly part of the Natural Resources Authority), in cooperation with the French Geological Survey (BRGM). The survey involved collecting samples of stream sediments and heavy minerals.

This survey, reported in 1994, identified several areas in the Aqaba and Wadi Araba regions that contained elements at above-normal concentrations, known as geochemical anomalies.

These elements included zinc, lead, copper, and other elements, which suggest the presence of mineralized zones.

The study recommended continued exploration in these anomaly areas in detail, including the proposed Wadi Lubnan area.

# 2. REGIONAL BACKGROUND

## 2.1. Geological Setting

The proposed area is underlain by basement igneous and metamorphic rocks, which are considered the northernmost extension of the Arabian-Nubian Shield (Fig. 3).

The igneous rocks are primarily represented by the Yutum Granite suite, which is the dominant, and the Ruman Granodiorite suite, which has a geochemical profile rich in iron group elements with a more potassic fringe of an alkaline tendency (BRGM, 1994).

The metamorphic rocks are represented by the Janub Metamorphic suite, which is outcropped in the southernmost part of the area and largely overlapping with the Ruman Granodiorite suite. It consists mainly of quartzite and a few undifferentiated meta-sedimentary facies, as well as acidic and basic volcanites. It is metamorphosed in the greenschist facies and is cut by major NW-SE, NE-SW and N-S faults.

The Yutum suite contains outcrops of the Abu Jeddah granite, which is overlapping with the Humrat granite units in the north of the area, while the Ruman suite consists of the Sabil granodiorite unit, which shows Ba enrichment.

The area is interspersed with acidic and basic dykes with a dominant ENE-WSW and NE-SW directions, and other secondary directions, especially NW-SE and E-W.

The area is strongly influenced by structures associated with the Dead Sea Transform Fault System (DSTFS), which formed in the Miocene, as well as by Precambrian faults that contributed to the opening of the Red Sea and the submergence of the Aqaba Gulf by water near the end of the Miocene.

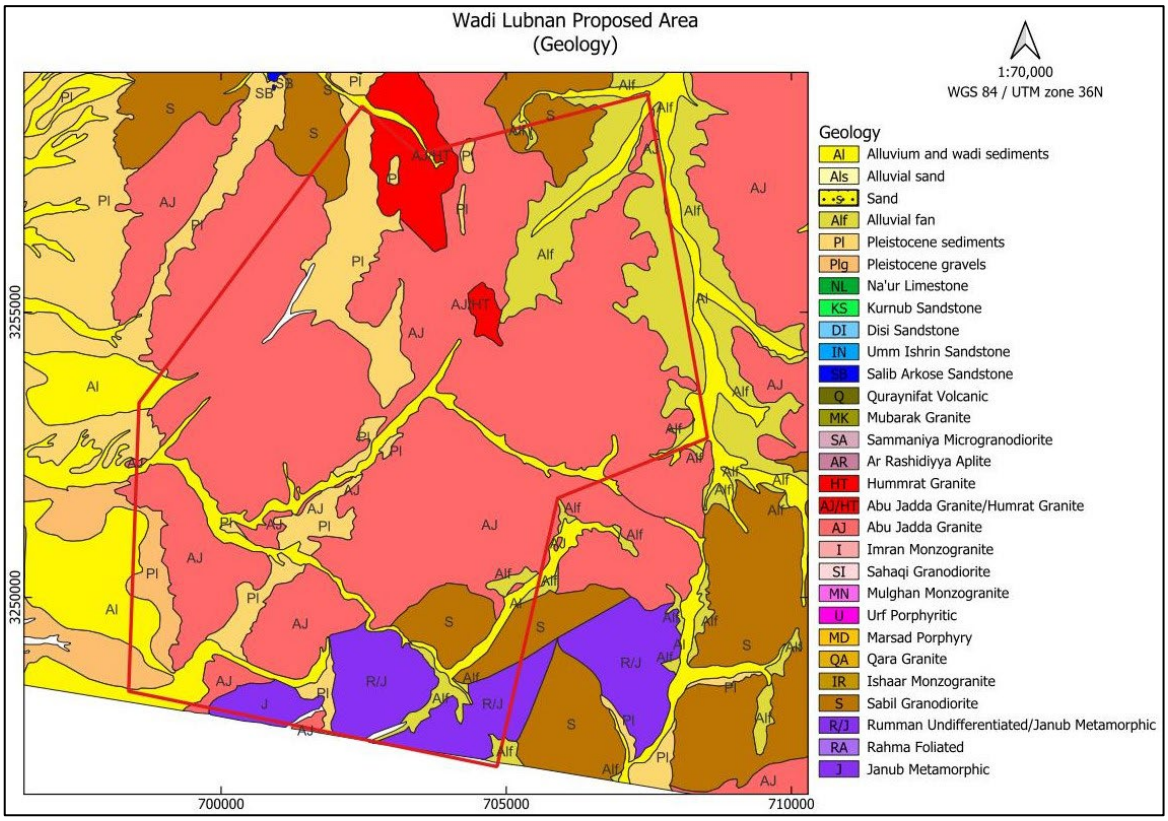


Figure 3: Geology of Wadi Lubnan proposed area. *Legend includes units other than those within the area's boundaries*.

## 2.2. Geochemical Survey Results

### 2.2.1. Survey Results

The Wadi Lubnan proposed area was surveyed by collecting stream sediment (SS) samples (Appendix 1).

The results from the BRGM regional geochemical survey provide valuable insights into the mineral potential of the proposed investment area (Table 2).

The survey identified significant geochemical anomalies that highlight prospective zones for mineral exploration (Fig. 4).

- **Zinc, Lead, and Copper**

Zinc, lead, and copper values up to 1288 ppm, 424 ppm, and 238 ppm, respectively, were observed in stream sediment samples. Most of the highest Zn, Pb and Cu values fell within the Janub Metamorphic suite in the south in

association with elevated gold values, where only few high values fell within the Abu Jeddah granite unit in the western part of the area.

The elevated Pb values within the Abu Jeddah granite unit are likely related to alkaline differentiation within the granite, where Zn values correlate with high V, $Fe_2O_3$, and $TiO_2$values characterize the basic rocks, i.e., is related to the lithology.

- **REEs and Niobium**

Yttrium, cerium, and lanthanum, as proxies for REEs, elevated values up to 224 ppm, 951 ppm, and 240 ppm, respectively, were observed in stream sediment samples in association with anomalous phosphorous values within the Abu Jeddah granite unit in the western part of the area.

Niobium elevated values up to 262 ppm were observed in association with REEs within the Abu Jeddah granite unit in the western part of the area.

- **Gold**

Maximum gold values detected in a detailed (50x100 m grid) geochemical rock and soil survey, conducted by the BRGM within the Janub Metamorphic suite in the south, were 69 ppb and 31 ppb in rock and soil samples respectively. The lower gold value in soil samples may be due to the fact that gold is very fine and thus lost during the sieving process to 250-1000 µm fraction.

Table 2: Summary statistics of BRGM base metals, REEs, and Nb results.

| | SS (ppm) | | | | | | |
|---|---|---|---|---|---|---|---|
| | **Zn** | **Pb** | **Cu** | **Y** | **La** | **Ce** | **Nb** |
| **Min.** | 46.0 | 7.0 | 6.0 | 12.0 | 24.0 | 24.0 | 5.0 |
| **Max.** | 1288.0 | 424.0 | 238.0 | 224.0 | 240.0 | 951.0 | 262.0 |
| **Range** | 1242.0 | 417.0 | 232.0 | 212.0 | 216.0 | 927.0 | 257.0 |
| **Mean** | 161.9 | 36.4 | 21.7 | 38.6 | 63.2 | 126.2 | 43.1 |
| **St. Dev.** | 152.2 | 56.4 | 26.2 | 35.0 | 39.7 | 151.5 | 32.3 |
| **Qr1** | 115.0 | 26.0 | 15.0 | 25.0 | 45.0 | 65.3 | 28.0 |
| **Qr2** | 149.5 | 33.0 | 19.0 | 34.0 | 54.0 | 124.0 | 43.0 |
| **Qr3** | 215.0 | 46.0 | 29.0 | 57.0 | 87.0 | 209.0 | 65.8 |
| **Skew.** | 3.9 | 3.9 | 4.8 | 2.5 | 1.8 | 2.2 | 2.0 |
| **kurt.** | 20.2 | 17.4 | 30.3 | 6.9 | 3.5 | 6.2 | 7.2 |
| $\mathbf{CI_{95\%}}$ | 143.1-180.6 | 29.4-43.3 | 18.5-24.9 | 34.3-42.9 | 58.3-68.1 | 107.6-144.8 | 39.1-47.0 |

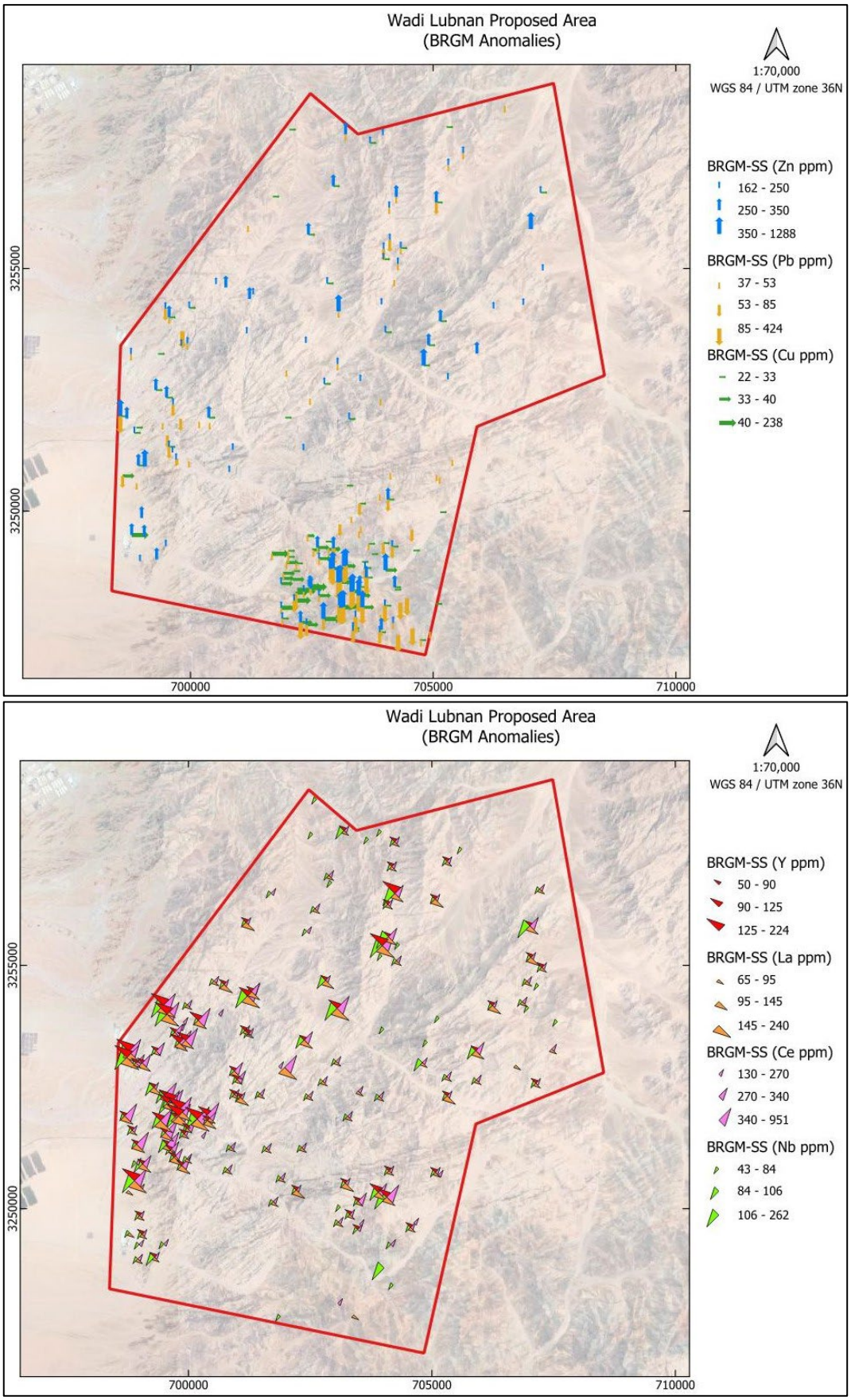


Figure 4: BRGM anomaly concentrations in SS samples.

### 2.2.2. Anomaly Areas

The survey results were mapped to identify two anomalous areas (Fig. 5), which are outlined as follows:

- **Anomaly-1 (southern part)**

This area exhibits anomalous Zn, Pb, and Cu concentrations with elevated Au values within the Janub Metamorphic suite.

According to BRGM, the Zn, Pb, Cu, and Au anomalies in this anomaly area represent three types of mineralization, where only quartz veinlets with chalcopyrite type is known as disseminated sulfide mineralization mainly with Au, Pb, and Zn in rhyolite, which is kaolinized in places.

An extension of sampling grid to the north and west of the detail-studied area (MUNRA-1) is recommended (Fig. 6). Further details are in BRGM (1994).

- **Anomaly-2 (western parts)**

This area exhibits anomalous REEs and Nb concentrations along with elevated values of Zn and Pb within the Abu Jeddah granite unit.

The identified anomaly area (1) was found to be almost identical to that identified by BRGM, while the anomaly area (2) was largely inconsistent in terms of size, possibly due to the way the data were interpreted (Fig. 7)

These anomalous areas represent the primary targets for further prospecting and exploration works.

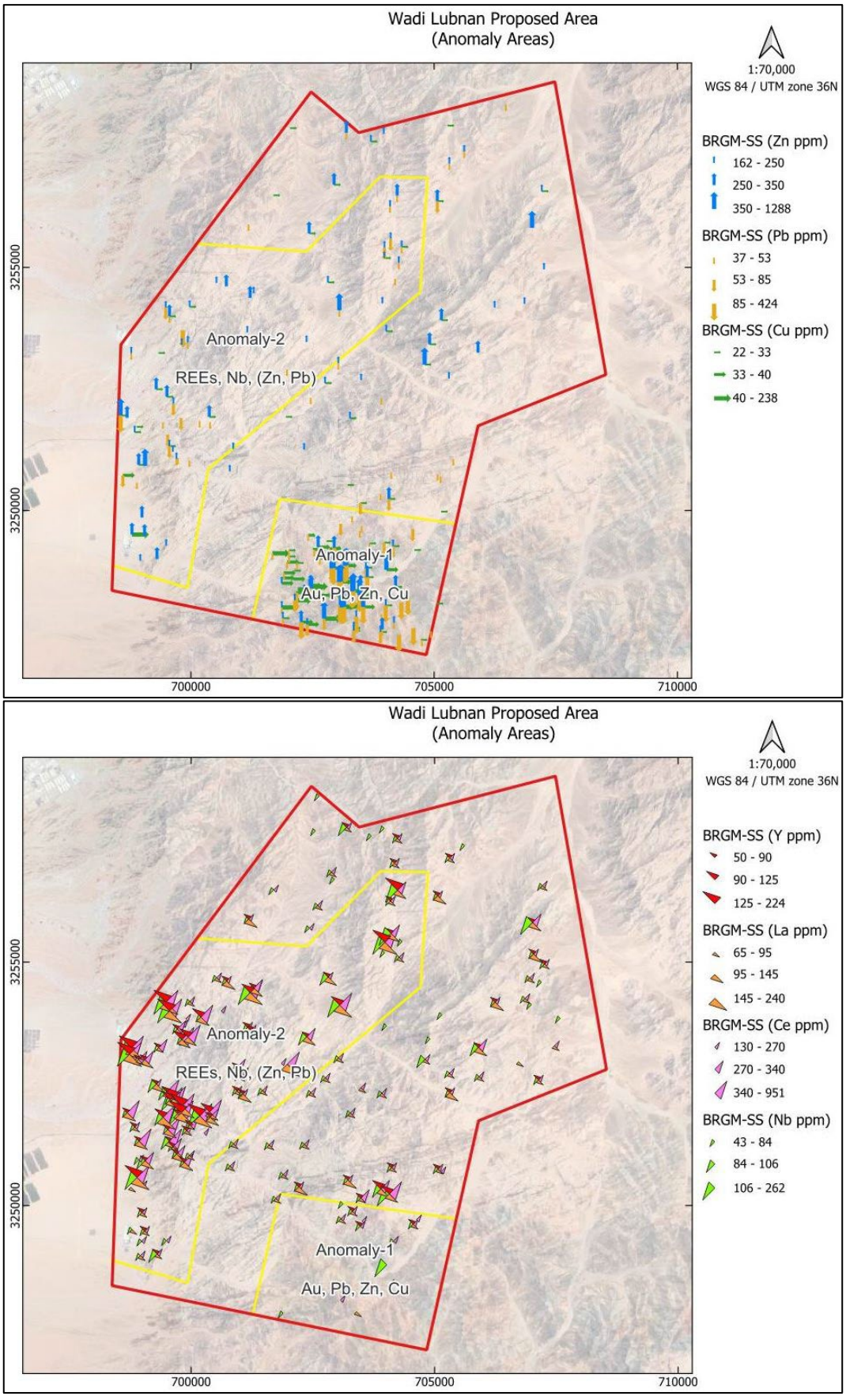


Figure 5: Anomaly areas identified in Wadi Lubnan proposed area.

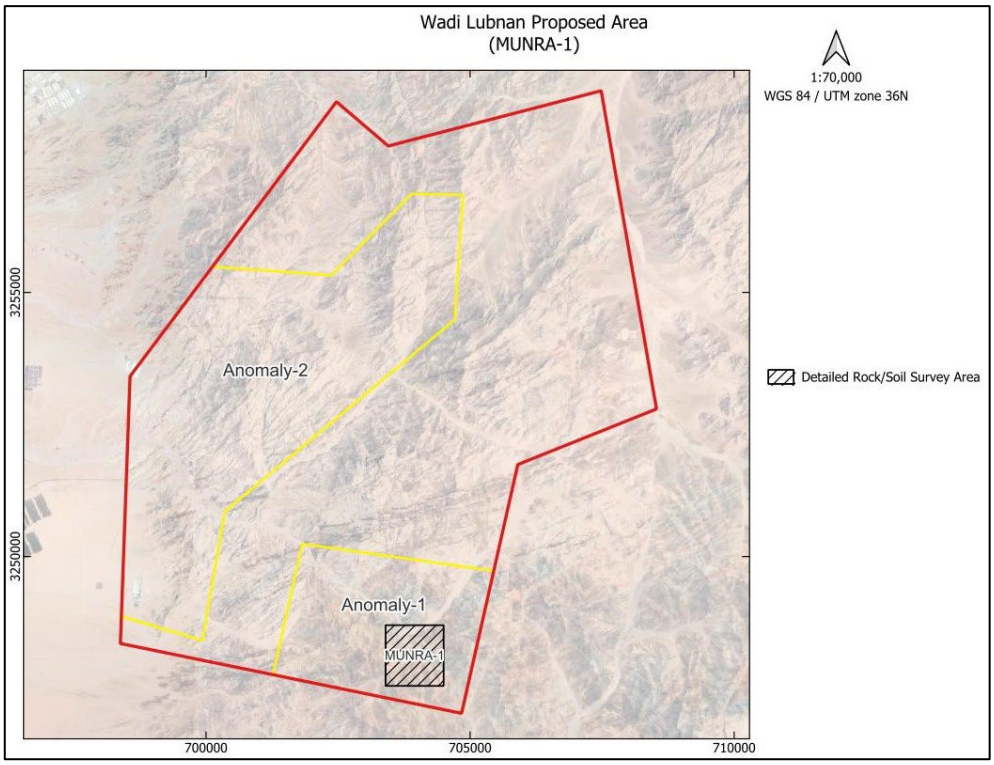


Figure 6: BRGM's detail rock/soil surveyed area (MUNRA-1).

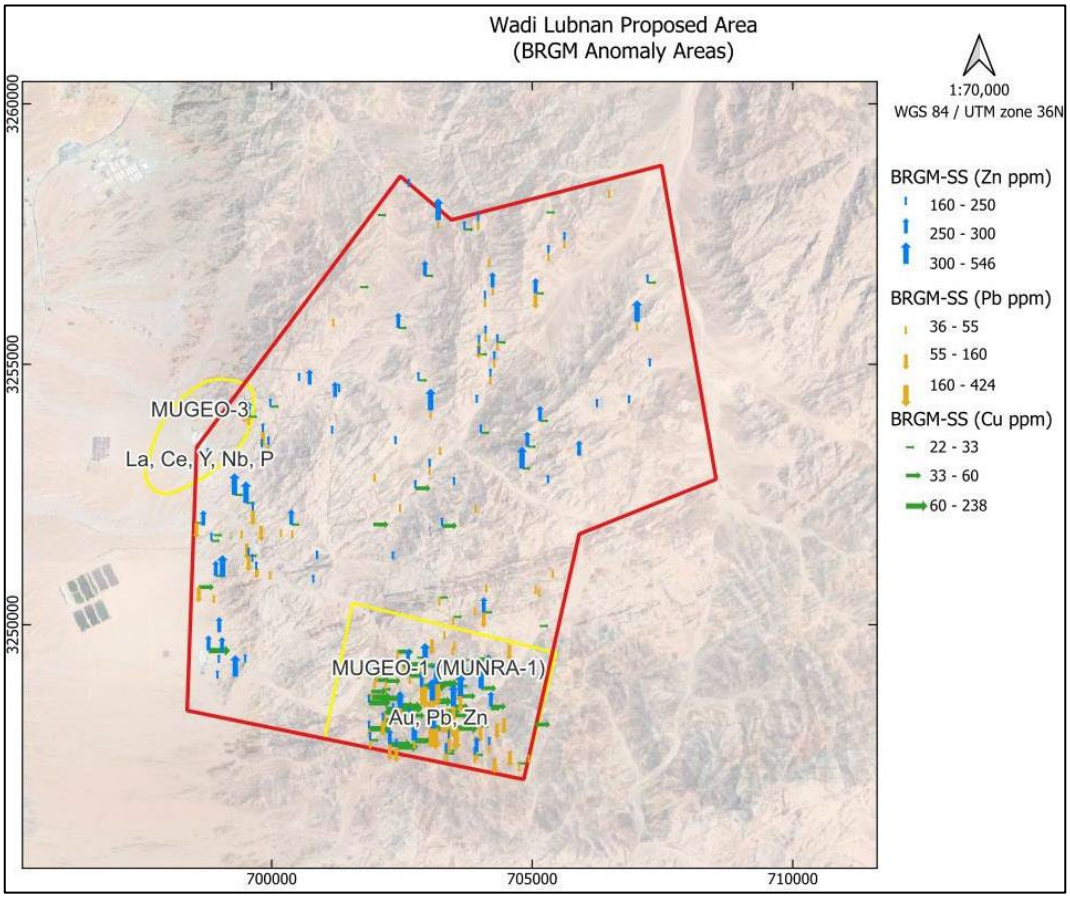


Figure 7: Anomaly areas identified by the BRGM in Wadi Lubnan proposed area.

# 3. REFERENCES

BRGM. (1994). Geochemical and Mineral Exploration of Aqaba-Araba Complex, *Ministry of Energy & Mineral Resources, Amman, Jordan. Internal Report.*

# 4. APPENDICES

Appendix 1: Analysis results of BRGM's stream sediment (SS) samples.

| SS | X | Y | SiO2 | Al2O3 | Fe2O3 | CaO | MgO | K2O | MnO | TiO2 | Zn | Pb | Cu | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SID | WGS84/UTM36N | WGS84/UTM36N | % | % | % | % | % | % | % | % | ppm | ppm | ppm | ppm |
| 1 | 698554 | 3251955 | 43.9 | 7.4 | 6 | 4.6 | 1.7 | 1.1 | 0.3 | 1.48 | 1104 | 99 | 33 | 24 |
| 4 | 698601 | 3250723 | 27.1 | 4.2 | 3.2 | 5.8 | 1.1 | 0.8 | 0.1 | 0.69 | 128 | 76 | 43 | 12 |
| 5 | 698763 | 3250375 | 59 | 11.7 | 14.3 | 4.6 | 2.8 | 2 | 0.2 | 3.08 | 139 | 15 | 20 | 37 |
| 7 | 698994 | 3249856 | 47.2 | 9.1 | 24.7 | 4.1 | 2.3 | 1.8 | 0.4 | 6.16 | 269 | 24 | 17 | 56 |
| 8 | 698789 | 3249505 | 58 | 10.3 | 23.9 | 5.6 | 3.4 | 1.8 | 0.3 | 6.62 | 297 | 17 | 97 | 42 |
| 16 | 701677 | 3249119 | 74.4 | 13.8 | 9.7 | 5.1 | 2.6 | 2.6 | 0.3 | 2.43 | 152 | 46 | 238 | 25 |
| 20 | 703068 | 3248056 | 70.2 | 12.2 | 3.8 | 5.7 | 0.9 | 3 | 0.4 | 0.53 | 275 | 297 | 19 | 28 |
| 21 | 703489 | 3248433 | 58.5 | 11.6 | 11.4 | 5.7 | 2.6 | 2.4 | 0.4 | 2.94 | 337 | 151 | 39 | 24 |
| 22 | 703597 | 3248825 | 68.1 | 12.9 | 9.3 | 6.7 | 2 | 2.9 | 0.3 | 2.14 | 175 | 81 | 27 | 27 |
| 23 | 703971 | 3249338 | 69.5 | 13.2 | 9.4 | 4.8 | 2.2 | 2.8 | 0.2 | 1.89 | 137 | 75 | 37 | 28 |
| 24 | 704020 | 3248781 | 20.5 | 5.5 | 41 | 3 | 2.1 | 0.7 | 0.5 | 18.9 | 506 |  | 53 | 21 |
| 25 | 703916 | 3247870 | 55.5 | 11.2 | 9.1 | 5.8 | 2.2 | 2.6 | 0.3 | 2.12 | 120 | 42 | 21 | 28 |
| 26 | 704462 | 3248200 | 62.1 | 11.6 | 5.4 | 5.6 | 1.2 | 2.9 | 0.3 | 0.94 | 116 | 86 | 15 | 24 |
| 27 | 704472 | 3247684 | 55.6 | 10.7 | 18.1 | 5 | 1.8 | 2.3 | 0.2 | 2.57 | 90 | 23 | 18 | 28 |
| 28 | 705054 | 3248085 | 54.7 | 12.3 | 13.9 | 7.1 | 3.2 | 1.8 | 0.2 | 4.22 | 156 | 30 | 36 | 36 |
| 29 | 704726 | 3247338 | 61.3 | 11.9 | 8.2 | 5.4 | 2.1 | 2.5 | 0.2 | 2 | 97 | 27 | 22 | 24 |
| 30 | 704847 | 3247387 | 65.7 | 13 | 4.2 | 3.4 | 1.4 | 3.2 | 0.1 | 0.88 | 55 | 14 | 14 | 15 |
| 31 | 704593 | 3249186 | 58.8 | 12.6 | 8.1 | 4.7 | 2.4 | 2.4 | 0.2 | 1.66 | 110 | 24 | 26 | 24 |
| 32 | 705146 | 3249977 | 53.1 | 12.5 | 11.3 | 5.4 | 2.9 | 2 | 0.2 | 2.57 | 121 | 10 | 30 | 24 |
| 34 | 705071 | 3250748 | 63.4 | 11.4 | 11.6 | 3.2 | 1.3 | 4.2 | 0.2 | 1.62 | 95 | 41 | 14 | 61 |
| 36 | 705937 | 3252027 | 69.6 | 12.1 | 3.5 | 4.2 | 0.9 | 5 | 0.1 | 0.7 | 46 | 30 | 7 | 23 |
| 109 | 707134 | 3252579 | 50.2 | 10.3 | 23.1 | 3.9 | 1.5 | 2.3 | 0.3 | 2.11 | 117 | 24 | 14 | 74 |
| 110 | 707462 | 3253280 | 63 | 12.5 | 6.9 | 4.1 | 1.9 | 2.8 | 0.1 | 1.53 | 72 | 28 | 13 | 36 |
| 111 | 707581 | 3253844 | 57.6 | 12.3 | 8.5 | 5.2 | 2.4 | 2.5 | 0.2 | 2.22 | 107 | 25 | 17 | 35 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 269 | 705902 | 3253247 | 43.3 | 9.3 | 29.3 | 6.6 | 2.5 | 1.6 | 0.3 | 4.89 | 258 | 27 | 17 | 67 |
| 273 | 706954 | 3254673 | 58 | 13.1 | 8.9 | 5.8 | 2 | 2.3 | 0.2 | 1.8 | 101 | 7 | 14 | 29 |
| 274 | 707196 | 3254586 | 54.5 | 12.1 | 12.4 | 7.9 | 2.7 | 2 | 0.2 | 2.69 | 125 | 13 | 19 | 28 |
| 275 | 706990 | 3254126 | 54.3 | 12.1 | 12.3 | 7.9 | 2.7 | 2 | 0.2 | 2.64 | 124 | 12 | 19 | 28 |
| 276 | 706859 | 3254253 | 51.7 | 11.4 | 18.2 | 7.7 | 2.7 | 1.9 | 0.3 | 3.53 | 166 | 17 | 18 | 41 |
| 277 | 706244 | 3254177 | 43.2 | 9.6 | 28 | 6.6 | 2.4 | 1.6 | 0.3 | 3.95 | 200 | 21 | 16 | 58 |
| 278 | 707014 | 3255815 | 35.1 | 7.4 | 37.8 | 6.5 | 2.2 | 1.2 | 0.6 | 8.62 | 351 | 36 | 20 | 89 |
| 279 | 707215 | 3256569 | 61.1 | 13.3 | 20.3 | 9.9 | 4.2 | 1.9 | 0.4 | 5.45 | 200 | 7 | 27 | 36 |
| 282 | 702053 | 3257439 | 60.9 | 12.5 | 10.7 | 7.5 | 2.8 | 2.3 | 0.2 | 2.13 | 128 | 12 | 21 | 20 |
| 301 | 699050 | 3252996 | 64.9 | 11.7 | 16.4 | 3.1 | 0.8 | 2.8 | 0.2 | 1.1 | 99 | 27 | 6 | 57 |
| 302 | 699832 | 3253706 | 69.3 | 12.8 | 7.7 | 4.6 | 1.9 | 3.1 | 0.2 | 1.17 | 160 | 102 | 19 | 26 |
| 303 | 699975 | 3254190 | 49.5 | 10.6 | 17 | 8.9 | 3.9 | 1.5 | 0.3 | 3.8 | 170 | 9 | 25 | 44 |
| 304 | 700336 | 3254286 | 68.6 | 12.4 | 5.7 | 3.9 | 1.9 | 3 | 0.2 | 1.17 | 115 | 10 | 11 | 20 |
| 305 | 700729 | 3254611 | 40.3 | 8.3 | 31.1 | 7.1 | 3 | 1.2 | 0.4 | 6.94 | 285 | 16 | 21 | 59 |
| 306 | 701217 | 3254373 | 42.9 | 8.2 | 29.5 | 7.7 | 3 | 1.2 | 0.4 | 7.54 | 276 | 22 | 16 | 106 |
| 307 | 701292 | 3254468 | 49.1 | 10.6 | 24 | 6.7 | 2.7 | 1.5 | 0.3 | 4.55 | 207 | 13 | 17 | 66 |
| 308 | 700526 | 3254679 | 51.7 | 9.5 | 24.8 | 4.1 | 1.4 | 2.3 | 0.3 | 4.33 | 203 | 28 | 9 | 47 |
| 309 | 702884 | 3256849 | 47.9 | 11.1 | 14.4 | 9.9 | 4.5 | 1.4 | 0.3 | 3.53 | 143 | 18 | 21 | 26 |
| 310 | 701697 | 3256484 | 52.8 | 12.3 | 14.4 | 8.5 | 3.5 | 2 | 0.3 | 3.32 | 157 | 13 | 22 | 37 |
| 311 | 701185 | 3255885 | 59.2 | 12.4 | 11.3 | 5.4 | 2 | 2.4 | 0.2 | 1.87 | 122 | 39 | 11 | 57 |
| 313 | 702038 | 3257866 | 54.7 | 11.7 | 13.7 | 8.3 | 3.4 | 1.8 | 0.2 | 3.19 | 145 | 19 | 22 | 22 |
| 601 | 701063 | 3252291 | 57.5 | 11.9 | 10.6 | 7 | 2.7 | 1.9 | 0.2 | 2.6 | 126 | 27 | 18 | 58 |
| 602 | 700940 | 3252831 | 60.7 | 10.5 | 14.4 | 5.6 | 2.2 | 2 | 0.2 | 3.09 | 134 | 29 | 13 | 60 |
| 603 | 701468 | 3252359 | 54.7 | 11.5 | 11.3 | 7.2 | 2.5 | 2 | 0.2 | 2.66 | 135 | 33 | 17 | 48 |
| 604 | 701952 | 3251926 | 39.6 | 7.6 | 12.1 | 4.7 | 2.1 | 1.7 | 0.2 | 2.66 | 133 | 24 | 34 | 20 |
| 605 | 701853 | 3252922 | 43.3 | 10.2 | 8.9 | 4.6 | 2.3 | 1.8 | 0.2 | 2.08 | 103 | 13 | 14 | 31 |
| 606 | 701976 | 3252903 | 32.4 | | 7.2 | 2.6 | 1.5 | | 0.1 | 1.42 | 98 | 49 | 11 | 12 |
| 607 | 702377 | 3253466 | 57.7 | 10.6 | 17.3 | 8.3 | 3.3 | 1.6 | 0.3 | 4.39 | 184 | 33 | 19 | 71 |
| 608 | 703052 | 3254117 | 55.4 | 6.6 | 47.5 | 6.6 | 2.5 | 0.9 | 0.5 | 7.34 | 389 | 46 | 16 | 102 |
| 609 | 702464 | 3252319 | 72.1 | 13 | 12.2 | 5.6 | 2 | 2.8 | 0.2 | 2.33 | 148 | 40 | 16 | 31 |
| 610 | 702758 | 3252621 | 59.4 | 11.9 | 18.9 | 7.7 | 3.1 | 2 | 0.3 | 4.15 | 215 | 33 | 34 | 31 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 611 | 703270 | 3251899 | 62.5 | 12.8 | 13.8 | 7.5 | 2.9 | 2.2 | 0.2 | 2.93 | 168 | 34 | 37 | 27 |
| 612 | 703032 | 3253030 | 63.5 | 11.2 | 18.5 | 5.8 | 2.3 | 2.3 | 0.3 | 3.5 | 204 | 38 | 18 | 32 |
| 613 | 703500 | 3252680 | 64.5 | 12.1 | 12.9 | 7 | 2.5 | 2.3 | 0.2 | 2.58 | 164 | 29 | 17 | 21 |
| 614 | 703488 | 3252418 | 61.5 | 11.8 | 13.4 | 6.4 | 2.4 | 2.2 | 0.2 | 2.52 | 157 | 29 | 21 | 29 |
| 615 | 703917 | 3252307 | 67.8 | 12 | 13 | 5.5 | 2.1 | 2.6 | 0.2 | 2.28 | 143 | 45 | 18 | 26 |
| 616 | 703234 | 3253415 | 65.7 | 11.7 | 13.7 | 6.5 | 2.3 | 2.3 | 0.2 | 2.78 | 158 | 36 | 15 | 21 |
| 617 | 703937 | 3254260 | 56.8 | 11.7 | 16.2 | 9.3 | 3.3 | 1.8 | 0.3 | 3.5 | 186 | 31 | 18 | 28 |
| 618 | 704080 | 3254443 | 77.3 | 12.6 | 4.9 | 3.9 | 1.3 | 3.1 | 0.1 | 0.83 | 67 | 31 | 8 | 25 |
| 619 | 704199 | 3254764 | 60.3 | 12.7 | 14.3 | 9.4 | 3.3 | 2 | 0.2 | 3.02 | 160 | 38 | 19 | 24 |
| 620 | 704274 | 3255097 | 57.1 | 10.9 | 19.4 | 8.5 | 3.4 | 1.6 | 0.3 | 4.44 | 225 | 41 | 18 | 37 |
| 621 | 703976 | 3255193 | 52.8 | 11.6 | 19.6 | 8.1 | 3.6 | 1.3 | 0.3 | 5.01 | 199 | 28 | 24 | 33 |
| 622 | 703980 | 3255407 | 49 | 8.8 | 30.2 | 6 | 2.1 | 1.4 | 0.9 | 7.47 | 238 | 66 | 18 | 187 |
| 623 | 704334 | 3255423 | 57.2 | 11.7 | 14.1 | 9.1 | 4.1 | 1.6 | 0.2 | 3.59 | 166 | 38 | 23 | 30 |
| 624 | 704107 | 3255589 | 53.5 | 9.2 | 25.8 | 7.4 | 2.9 | 1.6 | 0.5 | 6.28 | 244 | 54 | 19 | 83 |
| 625 | 704016 | 3253688 | 56.7 | 11 | 18.3 | 9 | 3.8 | 1.5 | 0.3 | 4.86 | 194 | 32 | 30 | 25 |
| 626 | 704377 | 3253355 | 67.7 | 11.8 | 9.6 | 7.1 | 2.6 | 2.4 | 0.2 | 1.94 | 104 | 10 | 19 | 20 |
| 627 | 704234 | 3252994 | 69.7 | 11.6 | 7.4 | 5.2 | 2 | 2.7 | 0.1 | 1.48 | 91 | 19 | 16 | 17 |
| 628 | 704806 | 3253002 | 40.3 | 7.6 | 33.9 | 8 | 3.4 | 1 | 0.5 | 9.35 | 359 | 21 | 27 | 35 |
| 629 | 704980 | 3253153 | 64.8 | 11.9 | 11.4 | 6.5 | 2.7 | 2.2 | 0.2 | 2.52 | 132 | 16 | 16 | 24 |
| 630 | 704909 | 3253419 | 45.2 | 9.3 | 28.5 | 7.5 | 3.2 | 1.3 | 0.4 | 7.08 | 289 | 25 | 26 | 29 |
| 631 | 705151 | 3253915 | 44.8 | 9.3 | 27.7 | 7.6 | 3.2 | 1.2 | 0.4 | 6.89 | 272 | 22 | 26 | 30 |
| 632 | 704746 | 3252597 | 78.8 | 11.9 | 5.3 | 4.1 | 1.4 | 3 | 0.1 | 1.06 | 55 | 20 | 17 | 15 |
| 633 | 705306 | 3252716 | 56.9 | 9.9 | 20.1 | 6.9 | 3.2 | 1.6 | 0.3 | 4.43 | 215 | 28 | 19 | 39 |
| 634 | 705314 | 3252319 | 66 | 11.8 | 13.6 | 4.3 | 1.7 | 2.3 | 0.3 | 1.87 | 123 | 33 | 17 | 50 |
| 635 | 705916 | 3252647 | 69.4 | 12.6 | 10.9 | 6.8 | 3 | 2.1 | 0.2 | 2.45 | 115 | 26 | 17 | 33 |
| 636 | 706727 | 3252952 | 71.6 | 13.4 | 8.1 | 5.8 | 2.4 | 2.4 | 0.2 | 1.68 | 84 | 27 | 15 | 24 |
| 645 | 707034 | 3255167 | 62.3 | 11.6 | 15.7 | 5.5 | 1.9 | 2 | 0.2 | 2.4 | 140 | 32 | 13 | 63 |
| 646 | 707259 | 3254959 | 52.1 | 9.7 | 28.6 | 5.8 | 1.9 | 1.8 | 0.3 | 4.12 | 218 | 31 | 13 | 53 |
| 901 | 700799 | 3250806 | 60 | 10.1 | 18.9 | 6.8 | 2.5 | 2 | 0.3 | 4.88 | 184 | 26 | 17 | 38 |
| 902 | 700870 | 3251266 | 64.9 | 10.8 | 18 | 5.9 | 2.1 | 2.2 | 0.3 | 3.76 | 169 | 25 | 17 | 44 |
| 903 | 701605 | 3251242 | 75.9 | 11.7 | 11.2 | 5.4 | 2.1 | 2.5 | 0.2 | 2.3 | 116 | 24 | 16 | 34 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 904 | 702327 | 3251254 | 68.3 | 11.4 | 15.1 | 6.4 | 2.6 | 2.2 | 0.3 | 3.25 | 175 | 28 | 20 | 35 |
| 905 | 701894 | 3250635 | 70.8 | 11.7 | 14.8 | 6.7 | 2.7 | 2.2 | 0.3 | 3.28 | 159 | 26 | 21 | 35 |
| 906 | 701743 | 3250143 | 76.9 | 10.7 | 12.2 | 4.7 | 1.7 | 2.4 | 0.2 | 2.95 | 129 | 18 | 14 | 35 |
| 907 | 702216 | 3250385 | 74.2 | 11.6 | 13.7 | 5.4 | 1.7 | 2.4 | 0.2 | 2.39 | 133 | 29 | 17 | 50 |
| 908 | 702422 | 3249480 | 78.2 | 12.5 | 7.5 | 6.2 | 1.8 | 2.5 | 0.2 | 1.55 | 134 | 30 | 34 | 16 |
| 909 | 702884 | 3256849 | 70.7 | 12.3 | 8 | 7.2 | 2.2 | 2.7 | 0.2 | 1.4 | 126 | 35 | 14 | 47 |
| 910 | 702944 | 3256700 | 51.7 | 10.1 | 26.3 | 9.4 | 4.3 | 1 | 0.4 | 7.18 | 260 | 29 | 25 | 36 |
| 911 | 702600 | 3256165 | 86.9 | 13.3 | 5.8 | 4 | 0.7 | 2.8 | 0.2 | 0.82 | 99 | 32 | 8 | 45 |
| 912 | 702431 | 3255700 | 52.4 | 10 | 28.1 | 8.4 | 3.5 | 1.1 | 0.4 | 6.9 | 271 | 31 | 23 | 38 |
| 913 | 702817 | 3254694 | 55.4 | 8.7 | 23.4 | 11 | 4.6 | 1 | 0.3 | 5.72 | 215 | 32 | 26 | 61 |
| 914 | 702124 | 3257160 | 85.3 | 12.3 | 4.5 | 5.6 | 1.4 | 2.5 | 0.1 | 0.69 | 53 | 24 | 12 | 12 |
| 915 | 702553 | 3257695 | 78.9 | 11.2 | 10.9 | 6.1 | 2.1 | 2.1 | 0.2 | 2.3 | 109 | 30 | 17 | 28 |
| 1201 | 699287 | 3252494 | 43.2 | 9.4 | 30.8 | 6.1 | 3.6 | 1 | 0.4 | 7.39 | 326 | 35 | 33 | 85 |
| 1202 | 699640 | 3252196 | 41.5 | 7.6 | 39.7 | 4.4 | 1.7 | 1.3 | 0.3 | 3.18 | 198 | 65 | 12 | 168 |
| 1203 | 699723 | 3251886 | 61.6 | 12 | 14.9 | 5.6 | 2.6 | 1.8 | 0.2 | 2.77 | 158 | 34 | 18 | 79 |
| 1204 | 699731 | 3251081 | 69.6 | 11.4 | 11 | 4 | 1.9 | 2.6 | 0.2 | 1.88 | 111 | 41 | 14 | 44 |
| 1205 | 699969 | 3251029 | 71.9 | 11.7 | 10.7 | 5.1 | 2.5 | 2.4 | 0.2 | 2.5 | 117 | 38 | 19 | 39 |
| 1261 | 702631 | 3258410 | 50.8 | 10.3 | 16.7 | 5.4 | 2.8 | 2 | 0.3 | 4.81 | 160 | 25 | 17 | 42 |
| 1262 | 703197 | 3257770 | 27.6 | 5.9 | 37 | 5.5 | 2.7 | 0.8 | 0.6 | 11.5 | 345 | 44 | 16 | 89 |
| 1265 | 703700 | 3257590 | 43.5 | 10.1 | 22.3 | 6.7 | 4.4 | 1.1 | 0.3 | 6.16 | 223 | 28 | 24 | 41 |
| 1266 | 703964 | 3257748 | 46.4 | 10.3 | 19.8 | 6.6 | 4.2 | 1.4 | 0.3 | 5.56 | 204 | 36 | 21 | 45 |
| 1267 | 704234 | 3257542 | 61.1 | 11.4 | 11.1 | 4.1 | 2 | 2.4 | 0.3 | 2.2 | 132 | 32 | 12 | 61 |
| 1268 | 704177 | 3257031 | 61.6 | 12.1 | 9.1 | 4.4 | 2.3 | 2.2 | 0.2 | 1.98 | 126 | 36 | 16 | 63 |
| 1269 | 704241 | 3256478 | 41.5 | 8.9 | 29.1 | 5.4 | 3.4 | 1.1 | 0.6 | 6.85 | 292 | 43 | 17 | 129 |
| 1270 | 704095 | 3256256 | 57.9 | 11.9 | 13.6 | 4.9 | 3 | 1.9 | 0.3 | 3.47 | 171 | 43 | 21 | 73 |
| 1277 | 703403 | 3248795 | 52.8 | 11.5 | 10.4 | 5.9 | 3.3 | 2.3 | 0.2 | 2.13 | 148 | 35 | 19 | 32 |
| 1285 | 705066 | 3256364 | 51.1 | 10.8 | 18.9 | 5.7 | 2.8 | 1.9 | 0.3 | 3.28 | 258 | 74 | 29 | 65 |
| 1286 | 705314 | 3257138 | 49.9 | 10.4 | 15.3 | 6.2 | 3.3 | 1.7 | 0.3 | 3.03 | 194 | 50 | 18 | 68 |
| 1287 | 705619 | 3257386 | 48.5 | 10.3 | 18.4 | 6.9 | 4.1 | 1.5 | 0.3 | 4.51 | 206 | 37 | 21 | 42 |
| 1288 | 706476 | 3258351 | 53 | 10.1 | 20.9 | 5.2 | 2.5 | 1.8 | 0.2 | 2.33 | 153 | 41 | 17 | 33 |
| 1311 | 705277 | 3257918 | 57.9 | 9.1 | 9.1 | 5.8 | 3.3 | 1.8 | 0.1 | 1.56 | 90 | 29 | 22 | 23 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1501 | 702782 | 3249874 | 56.8 | 11.9 | 10.1 | 6.9 | 3.5 | 1.7 | 0.2 | 2.21 | 116 | 30 | 20 | 26 |
| 1502 | 703121 | 3250033 | 72.8 | 13.5 | 4.9 | 2.3 | 1.1 | 3 | 0.2 | 0.91 | 74 | 35 | 11 | 42 |
| 1503 | 703221 | 3250525 | 65 | 11.6 | 9.7 | 4.6 | 2.4 | 2.1 | 0.2 | 2.8 | 111 | 36 | 24 | 72 |
| 1504 | 703899 | 3250340 | 66.6 | 12.6 | 13.9 | 3 | 1.4 | 2.3 | 0.3 | 1.95 | 117 | 52 | 13 | 104 |
| 1505 | 704121 | 3250779 | 69.2 | 13.4 | 10.3 | 4.7 | 2.3 | 2.4 | 0.2 | 2.4 | 109 | 43 | 21 | 59 |
| 1506 | 703078 | 3249726 | 71.6 | 12.8 | 11 | 4.1 | 1.6 | 2.5 | 0.2 | 1.57 | 108 | 68 | 19 | 47 |
| 1507 | 702946 | 3249234 | 77.2 | 13.3 | 6.4 | 5.1 | 1.6 | 2.5 | 0.3 | 1.22 | 323 | 111 | 29 | 23 |
| 1508 | 698825 | 3253138 | 77.7 | 13.4 | 7.4 | 5.8 | 2.2 | 2 | 0.2 | 1.55 | 120 | 36 | 13 | 38 |
| 1510 | 699483 | 3254174 | 37.6 | 7.5 | 38.2 | 5.7 | 2.4 | 1.2 | 0.3 | 4.69 | 236 | 66 | 14 | 161 |
| 3001 | 704573 | 3247574 | 61.6 | 11 | 7.2 | 6.3 | 1.9 | 2.9 | 0.34 | 1.61 | 155 | 92 | 16 | 29 |
| 3003 | 704596 | 3247757 | 62.8 | 11.1 | 7.4 | 4.9 | 1.9 | 2.4 | 0.14 | 1.42 | 91 | 27 | 15 | 20 |
| 3004 | 704660 | 3247732 | 63.4 | 13.1 | 9.4 | 5.3 | 2.2 | 2.4 | 0.13 | 1.96 | 112 | 35 | 18 | 25 |
| 3005 | 704741 | 3247683 | 69 | 13.5 | 4.4 | 4.3 | 1.7 | 2.9 | 0.08 | 0.83 | 88 | 29 | 19 | 15 |
| 3006 | 704889 | 3247519 | 62.5 | 12.8 | 7.9 | 4.6 | 1.7 | 2.8 | 0.12 | 1.45 | 93 | 32 | 16 | 21 |
| 3007 | 704937 | 3247510 | 65.9 | 13.2 | 7.9 | 4.6 | 1.7 | 2.7 | 0.11 | 1.35 | 91 | 37 | 17 | 21 |
| 3008 | 704749 | 3247337 | 66.8 | 12.8 | 6.5 | 6.2 | 1.9 | 2.7 | 0.12 | 1.35 | 105 | 38 | 20 | 20 |
| 3009 | 704818 | 3247233 | 66 | 12.7 | 5.7 | 6.9 | 1.9 | 2.8 | 0.11 | 1.19 | 103 | 33 | 19 | 19 |
| 3010 | 703934 | 3247556 | 65.5 | 13.3 | 8.6 | 4.2 | 2 | 2 | 0.28 | 1.64 | 278 | 44 | 19 | 30 |
| 3011 | 703898 | 3247500 | 58.8 | 11.4 | 13.5 | 6.4 | 2.2 | 2.4 | 0.39 | 3.05 | 200 | 55 | 24 | 34 |
| 3012 | 704176 | 3247414 | 57.2 | 11.6 | 9.4 | 6.2 | 2.8 | 2.3 | 0.22 | 2.26 | 126 | 32 | 21 | 28 |
| 3013 | 704272 | 3247395 | 61.2 | 11.5 | 6.1 | 6.6 | 1.6 | 2.9 | 0.21 | 1.33 | 111 | 36 | 13 | 27 |
| 3014 | 704279 | 3247442 | 55 | 10.7 | 7.2 | 8 | 2 | 2.3 | 0.37 | 1.33 | 125 | 93 | 18 | 30 |
| 3015 | 704175 | 3247690 | 57.1 | 11.1 | 10.5 | 6.5 | 2.2 | 2.4 | 0.28 | 2.42 | 164 | 51 | 20 | 30 |
| 3016 | 704006 | 3248048 | 58.9 | 12.1 | 6.8 | 6.3 | 2 | 2.4 | 0.45 | 1.08 | 199 | 141 | 23 | 31 |
| 3017 | 704325 | 3248109 | 58.3 | 11.3 | 6.2 | 5.5 | 1.3 | 2.6 | 0.31 | 1.13 | 143 | 128 | 16 | 25 |
| 3018 | 704477 | 3248198 | 58.6 | 12.3 | 6.9 | 4.4 | 1.8 | 2.8 | 0.13 | 1.34 | 105 | 27 | 15 | 22 |
| 3019 | 704443 | 3248244 | 60 | 12.6 | 6 | 4.4 | 1.8 | 2.9 | 0.12 | 1.19 | 104 | 31 | 15 | 21 |
| 3020 | 704213 | 3248380 | 58 | 12.7 | 10.7 | 5 | 2.1 | 2.4 | 0.2 | 3.01 | 139 | 23 | 25 | 25 |
| 3021 | 704208 | 3248429 | 41.5 | 10.5 | 23 | 6 | 2.8 | 1.7 | 0.36 | 9.29 | 289 | 27 | 38 | 23 |
| 3022 | 703467 | 3248257 | 54.5 | 12.2 | 11.8 | 6.1 | 2.6 | 2.4 | 0.47 | 2.89 | 660 | 263 | 41 | 28 |
| 3023 | 703320 | 3248334 | 48.6 | 11.8 | 14.8 | 6.3 | 3.1 | 1.8 | 0.49 | 3.72 | 692 | 206 | 47 | 30 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3024 | 703341 | 3248362 | 56.9 | 13.1 | 6.4 | 6.9 | 2.3 | 2.6 | 0.5 | 1.12 | 876 | 320 | 33 | 25 |
| 3025 | 703627 | 3248629 | 60.3 | 13.8 | 8.9 | 4.7 | 2.3 | 2.5 | 0.22 | 1.55 | 317 | 146 | 34 | 26 |
| 3026 | 703533 | 3248953 | 58.3 | 12.3 | 13.4 | 5.1 | 2.5 | 2.2 | 0.2 | 2.77 | 132 | 34 | 32 | 34 |
| 3027 | 703200 | 3248881 | 64.2 | 14.1 | 7.4 | 5 | 1.8 | 2.9 | 0.32 | 1.45 | 412 | 146 | 37 | 24 |
| 3028 | 703166 | 3248864 | 64.9 | 13.9 | 8 | 4.9 | 1.9 | 2.8 | 0.39 | 1.59 | 447 | 174 | 68 | 25 |
| 3029 | 702933 | 3248817 | 59.6 | 12.9 | 12.8 | 5 | 2.2 | 2.3 | 0.65 | 2.71 | 590 | 301 | 61 | 31 |
| 3030 | 702880 | 3248806 | 62.4 | 14 | 5.2 | 3.5 | 1.5 | 2.8 | 0.19 | 0.97 | 254 | 84 | 29 | 18 |
| 3031 | 703045 | 3248528 | 48.3 | 10.5 | 20 | 4.8 | 2 | 2 | 0.8 | 4.26 | 657 | 424 | 66 | 33 |
| 3032 | 703083 | 3248543 | 55.7 | 12.1 | 9.4 | 4.5 | 1.9 | 2.4 | 0.42 | 1.95 | 501 | 217 | 44 | 25 |
| 3033 | 702792 | 3249369 | 61.5 | 12.5 | 7.4 | 3.5 | 1.8 | 2.3 | 0.16 | 1.82 | 94 | 35 | 25 | 26 |
| 3034 | 702761 | 3249336 | 62.4 | 13.4 | 6.2 | 3.5 | 1.6 | 2.5 | 0.12 | 1.16 | 78 | 30 | 20 | 20 |
| 3035 | 702852 | 3249210 | 58.5 | 11.8 | 11.7 | 4.3 | 2.3 | 2 | 0.26 | 2.93 | 135 | 46 | 41 | 34 |
| 3036 | 702506 | 3249213 | 60 | 13.8 | 5.5 | 5.3 | 1.9 | 2.8 | 0.14 | 1.34 | 95 | 31 | 28 | 21 |
| 3037 | 702535 | 3249187 | 59.3 | 13.1 | 7.7 | 5.3 | 2 | 2.6 | 0.2 | 1.91 | 114 | 48 | 40 | 25 |
| 3038 | 702617 | 3249247 | 51.3 | 11.2 | 16.1 | 5.2 | 2.2 | 2.1 | 0.28 | 3.85 | 258 | 47 | 48 | 26 |
| 3039 | 702648 | 3249018 | 56.9 | 12.2 | 10.8 | 5.2 | 2.3 | 2.1 | 0.22 | 2.32 | 237 | 41 | 46 | 25 |
| 3040 | 702413 | 3249503 | 54.6 | 12 | 10.2 | 5.7 | 3.7 | 1.8 | 0.2 | 2.18 | 130 | 37 | 32 | 31 |
| 3041 | 702130 | 3249557 | 69.2 | 12.5 | 5.8 | 3.3 | 1.5 | 3.1 | 0.12 | 1.32 | 83 | 33 | 11 | 29 |
| 3042 | 701946 | 3249363 | 75.9 | 12.3 | 3.7 | 2.5 | 1.2 | 3.2 | 0.1 | 0.68 | 65 | 35 | 14 | 22 |
| 3043 | 702015 | 3249181 | 60.1 | 12.1 | 9.6 | 4.2 | 2.3 | 2.3 | 0.22 | 1.99 | 134 | 43 | 40 | 27 |
| 3044 | 702015 | 3249056 | 68.3 | 13.1 | 5.7 | 2.7 | 1.2 | 3.2 | 0.2 | 0.97 | 100 | 50 | 36 | 23 |
| 3045 | 701977 | 3248939 | 60 | 13.5 | 7.6 | 5 | 1.6 | 2.8 | 0.21 | 1.74 | 102 | 42 | 49 | 25 |
| 3046 | 702184 | 3248921 | 61.2 | 14.2 | 6.3 | 5.3 | 1.5 | 2.9 | 0.17 | 1.29 | 94 | 37 | 40 | 21 |
| 3047 | 701910 | 3248717 | 54.5 | 12.4 | 13.6 | 5.8 | 1.9 | 2.3 | 0.22 | 3.06 | 139 | 46 | 52 | 28 |
| 3048 | 702129 | 3248762 | 57.8 | 13.1 | 5.2 | 5.5 | 1.7 | 2.4 | 0.11 | 1.12 | 82 | 27 | 31 | 17 |
| 3049 | 701886 | 3248611 | 52.8 | 12.1 | 12.1 | 5.3 | 2.9 | 2 | 0.22 | 3.16 | 157 | 35 | 66 | 26 |
| 3050 | 702106 | 3248590 | 53.9 | 12.6 | 11.4 | 5.1 | 2.6 | 2.1 | 0.2 | 2.75 | 156 | 33 | 60 | 24 |
| 3051 | 701867 | 3248503 | 49.6 | 10.9 | 13.7 | 5.1 | 2.6 | 1.7 | 0.21 | 3.53 | 181 | 35 | 64 | 24 |
| 3052 | 702164 | 3248308 | 60.8 | 13.1 | 5.2 | 4.8 | 1.7 | 2.7 | 0.23 | 0.95 | 145 | 154 | 45 | 23 |
| 3053 | 702199 | 3248375 | 58 | 12.9 | 9.1 | 4.3 | 2 | 2.3 | 0.19 | 1.68 | 127 | 35 | 132 | 24 |
| 3054 | 702332 | 3248343 | 57.9 | 12.9 | 8.7 | 4.9 | 2.2 | 2.2 | 0.28 | 1.88 | 225 | 42 | 49 | 27 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3055 | 702432 | 3248460 | 54.6 | 11.9 | 14.9 | 5.6 | 2.9 | 1.9 | 0.23 | 3.62 | 215 | 33 | 49 | 25 |
| 3056 | 702463 | 3248435 | 61.9 | 13.5 | 8.4 | 3.7 | 1.9 | 2.6 | 0.25 | 1.73 | 300 | 44 | 73 | 23 |
| 3057 | 702482 | 3248397 | 67.3 | 14.4 | 5.5 | 2.7 | 1.4 | 3.1 | 0.19 | 1.11 | 300 | 37 | 66 | 21 |
| 3058 | 702647 | 3248256 | 60.7 | 13.5 | 9.5 | 5.3 | 2.5 | 2.2 | 0.33 | 1.99 | 250 | 50 | 54 | 29 |
| 3059 | 701869 | 3248005 | 60.8 | 14.1 | 8.8 | 6 | 2.8 | 2.4 | 0.26 | 1.81 | 164 | 45 | 178 | 24 |
| 3060 | 702135 | 3248154 | 56.7 | 13.2 | 11.2 | 6 | 2.8 | 2.2 | 0.32 | 2.51 | 193 | 56 | 211 | 25 |
| 3061 | 701891 | 3247784 | 67.2 | 11.4 | 9.7 | 3.5 | 1.6 | 2.5 | 0.28 | 2.04 | 163 | 52 | 32 | 45 |
| 3062 | 702269 | 3247703 | 65.7 | 13.2 | 7.4 | 2.9 | 1.7 | 3 | 0.33 | 1.57 | 297 | 117 | 65 | 31 |
| 3063 | 702392 | 3247655 | 59.2 | 13.5 | 9.9 | 4.4 | 2.2 | 2.5 | 0.41 | 2.12 | 242 | 79 | 64 | 28 |
| 3064 | 702739 | 3247775 | 54.1 | 12.9 | 13.6 | 4.7 | 2.5 | 1.7 | 0.51 | 2.63 | 373 | 54 | 89 | 37 |
| 3065 | 703104 | 3248005 | 58.3 | 13.2 | 11.2 | 5.8 | 2.5 | 1.7 | 0.38 | 2.11 | 442 | 147 | 44 | 34 |
| 3066 | 703147 | 3248021 | 61.8 | 13.1 | 11.2 | 4.7 | 2.2 | 210 | 0.61 | 1.97 | 1288 | 371 | 109 | 43 |
| 3067 | 703543 | 3248015 | 50.3 | 12 | 16.8 | 6.6 | 3.7 | 1.3 | 0.49 | 3.81 | 1031 | 278 | 64 | 34 |
| 3068 | 703400 | 3247815 | 61.5 | 12.6 | 7.1 | 8.2 | 1.8 | 2.6 | 0.43 | 1.28 | 204 | 138 | 18 | 34 |
| 3069 | 703348 | 3247579 | 61.5 | 12.9 | 11.6 | 6.5 | 3 | 2.4 | 0.37 | 2.25 | 198 | 46 | 26 | 32 |
| 3070 | 703348 | 3247528 | 65.1 | 12.6 | 10.5 | 6 | 2.4 | 2.4 | 0.42 | 1.89 | 217 | 55 | 31 | 30 |
| 3294 | 703315 | 3249882 | 66.8 | 13.5 | 6.6 | 2.9 | 1.2 | 3.1 | 0.19 | 1.03 | 103 | 53 | 14 | 59 |
| 3295 | 703485 | 3250152 | 54.8 | 12.1 | 13.4 | 6.1 | 2.6 | 2.1 | 0.24 | 2.3 | 138 | 54 | 33 | 70 |
| 3296 | 704072 | 3250237 | 46.8 | 9.5 | 30.2 | 4.9 | 2.4 | 1.8 | 0.4 | 5.97 | 258 | 72 | 26 | 119 |
| 3297 | 703510 | 3249680 | 69.1 | 13.4 | 5.3 | 4.5 | 1.3 | 3.2 | 0.14 | 0.88 | 75 | 38 | 15 | 41 |
| 3298 | 703475 | 3249576 | 70 | 12.9 | 6 | 3.9 | 1.2 | 3.2 | 0.14 | 0.92 | 76 | 37 | 15 | 50 |
| 3299 | 703670 | 3249324 | 61 | 12.4 | 12.9 | 6.2 | 2.6 | 2.3 | 0.17 | 2.12 | 125 | 42 | 33 | 30 |
| 3300 | 703738 | 3249111 | 61.9 | 12.4 | 10.6 | 7.1 | 3.1 | 2.3 | 0.14 | 1.87 | 98 | 24 | 27 | 28 |
| 3301 | 704157 | 3249267 | 61.6 | 10.9 | 18.6 | 5.2 | 2.5 | 2.3 | 0.24 | 2.97 | 164 | 74 | 35 | 42 |
| 3302 | 704562 | 3249616 | 59 | 10.5 | 8 | 3.2 | 1.6 | 2.3 | 0.18 | 1.27 | 131 | 57 | 16 | 50 |
| 3303 | 705415 | 3250042 | 62.9 | 10.8 | 4.4 | 3 | 1.1 | 2.6 | 0.1 | 0.83 | 74 | 31 | 9 | 28 |
| 3304 | 704630 | 3249708 | 54.6 | 10.7 | 9.1 | 4.6 | 1.3 | 2.3 | 0.18 | 1.18 | 103 | 29 | 11 | 34 |
| 3308 | 705134 | 3250696 | 63.2 | 11.5 | 7.8 | 3.6 | 1.6 | 2.8 | 0.14 | 1.38 | 79 | 43 | 12 | 39 |
| 3309 | 705244 | 3250785 | 65.4 | 11.8 | 5.4 | 3.4 | 1.4 | 3 | 0.11 | 0.99 | 70 | 27 | 11 | 30 |
| 3310 | 705316 | 3251083 | 50.9 | 9.4 | 4.3 | 2.8 | 1.2 | 2.6 | 0.08 | 0.73 | 68 | 12 | 11 | 28 |
| 3311 | 705397 | 3251058 | 69.4 | 10.4 | 5.6 | 5.3 | 1.3 | 3.1 | 0.1 | 0.94 | 63 | 52 | 13 | 23 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3328 | 698774 | 3253235 | 50.4 | 8.8 | 40.7 | 4.3 | 1.5 | 1.7 | 0.37 | 4.9 | 233 | 45 | 12 | 224 |
| 3329 | 699560 | 3253995 | 50.1 | 9.5 | 34.4 | 7.2 | 3.3 | 1.5 | 0.43 | 5.9 | 264 | 48 | 24 | 183 |
| 3330 | 698734 | 3253106 | 47.4 | 8.5 | 19.2 | 3.3 | 1 | 1.7 | 0.2 | 2.81 | 106 | 29 | 8 | 191 |
| 3331 | 698922 | 3252995 | 51.5 | 9.6 | 14.8 | 4.2 | 1.8 | 1.5 | 0.19 | 1.76 | 124 | 25 | 12 | 61 |
| 3332 | 699335 | 3253241 | 45.9 | 9 | 17.2 | 4.7 | 2.4 | 1.2 | 0.24 | 2.83 | 157 | 24 | 31 | 68 |
| 3333 | 699719 | 3253624 | 53.7 | 9.7 | 9.1 | 4.7 | 2.1 | 1.7 | 0.18 | 1.68 | 109 | 25 | 16 | 66 |
| 3334 | 699811 | 3253410 | 44.7 | 8.3 | 20.9 | 4.2 | 2.2 | 1.4 | 0.25 | 3.57 | 189 | 27 | 16 | 97 |
| 3335 | 699938 | 3253458 | 46.2 | 8.3 | 20.8 | 4.2 | 2.2 | 1.3 | 0.26 | 3.63 | 182 | 40 | 15 | 116 |
| 3336 | 699891 | 3253833 | 53.7 | 9.7 | 8.1 | 4.2 | 2.2 | 1.8 | 0.16 | 1.66 | 102 | 28 | 16 | 32 |
| 3337 | 700200 | 3253870 | 65.9 | 12 | 12.6 | 5.1 | 2.4 | 2.3 | 0.21 | 2.52 | 132 | 12 | 15 | 99 |
| 3338 | 700621 | 3253997 | 76.8 | 13 | 4.9 | 2.8 | 1.3 | 3.2 | 0.15 | 0.86 | 101 | 14 | 7 | 36 |
| 3339 | 699507 | 3252338 | 45.9 | 9.4 | 35.2 | 6.1 | 3.7 | 1.2 | 0.42 | 7.93 | 347 | 23 | 27 | 87 |
| 3340 | 699566 | 3252170 | 62.8 | 11.4 | 13.4 | 5.5 | 2.6 | 1.9 | 0.22 | 2.81 | 132 | 26 | 21 | 102 |
| 3341 | 699424 | 3251813 | 72.2 | 12 | 12.2 | 3.6 | 1.4 | 3.1 | 0.18 | 1.59 | 106 | 39 | 9 | 121 |
| 3342 | 699816 | 3252045 | 59.1 | 10.9 | 21.1 | 4.8 | 2 | 2.1 | 0.24 | 2.96 | 156 | 25 | 12 | 147 |
| 3343 | 699797 | 3251902 | 43.3 | 6.7 | 30.7 | 3.7 | 1.1 | 1.5 | 0.23 | 2.67 | 138 | 63 | 13 | 157 |
| 3344 | 699524 | 3251560 | 46.4 | 8.2 | 17.7 | 5.2 | 1.9 | 1.7 | 0.22 | 2.86 | 151 | 66 | 17 | 69 |
| 3345 | 699557 | 3251324 | 48.3 | 7.9 | 22.4 | 4.6 | 1.9 | 1.7 | 0.33 | 5.26 | 221 | 60 | 24 | 71 |
| 3346 | 699629 | 3251206 | 61.3 | 11.6 | 15 | 5.2 | 2.3 | 2.3 | 0.26 | 3.39 | 162 | 34 | 16 | 66 |
| 3347 | 699704 | 3251058 | 61.1 | 11.8 | 17.6 | 5.4 | 2.8 | 2.1 | 0.27 | 3.23 | 201 | 39 | 21 | 62 |
| 3348 | 699864 | 3250887 | 67.2 | 11.3 | 13.7 | 4 | 2 | 2.6 | 0.21 | 2.28 | 132 | 30 | 13 | 57 |
| 3349 | 699976 | 3251653 | 61.8 | 11.7 | 12.9 | 5.4 | 2.7 | 1.9 | 0.22 | 2.61 | 146 | 19 | 19 | 78 |
| 3350 | 700178 | 3251840 | 53.1 | 9.6 | 27 | 4.5 | 1.4 | 1.8 | 0.24 | 2.6 | 141 | 39 | 9 | 191 |
| 3351 | 700378 | 3251925 | 41.6 | 8.8 | 33.7 | 5.7 | 3 | 1.1 | 0.37 | 6.06 | 285 | 30 | 22 | 105 |
| 3352 | 700394 | 3251816 | 64 | 12 | 10.9 | 5 | 2.3 | 2.1 | 0.2 | 1.8 | 139 | 41 | 14 | 76 |
| 3353 | 699910 | 3251538 | 67 | 12.1 | 8.1 | 4.6 | 2 | 2.3 | 0.17 | 1.58 | 121 | 27 | 13 | 62 |
| 3354 | 700264 | 3251485 | 65.1 | 11.8 | 9.1 | 4.7 | 2.2 | 2.4 | 0.16 | 1.8 | 116 | 22 | 13 | 40 |
| 3355 | 700944 | 3252352 | 77.3 | 12.6 | 5.7 | 3.1 | 1.3 | 3.2 | 0.13 | 1.11 | 92 | 18 | 9 | 57 |
| 3356 | 700999 | 3252656 | 76.9 | 12.4 | 6 | 2.5 | 1 | 3.4 | 0.13 | 1.23 | 79 | 16 | 12 | 72 |
| 3357 | 701237 | 3253606 | 60.6 | 11.9 | 14.6 | 5.4 | 3.2 | 2 | 0.21 | 3.04 | 151 | 10 | 18 | 58 |
| 3358 | 701161 | 3253664 | 60.3 | 10.6 | 19.5 | 4.2 | 2.1 | 2.6 | 0.23 | 3.89 | 169 | 8 | 14 | 61 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3359 | 698689 | 3251906 | 53.9 | 9.8 | 30.7 | 4.1 | 1.9 | 2.2 | 0.35 | 5.23 | 251 | 24 | 14 | 80 |
| 3360 | 698887 | 3251721 | 56.8 | 11.5 | 12.7 | 7.8 | 3.5 | 1.8 | 0.25 | 2.17 | 116 | 16 | 29 | 30 |
| 3361 | 698844 | 3251611 | 50.8 | 11.6 | 19.4 | 6.7 | 3.6 | 1.9 | 0.29 | 5.12 | 191 | 24 | 22 | 54 |
| 3362 | 699492 | 3249276 | 58.9 | 10.3 | 18.4 | 5.1 | 3.2 | 2.1 | 0.28 | 4.02 | 198 | 18 | 19 | 39 |
| 3363 | 698987 | 3249266 | 62.4 | 11.9 | 15.4 | 5.4 | 3.2 | 2.3 | 0.22 | 3.05 | 160 | 21 | 21 | 37 |
| 3364 | 699303 | 3249003 | 47.7 | 8.4 | 33 | 4.7 | 2.5 | | 0.43 | 7.75 | 349 | 17 | 20 | 57 |
| 3365 | 698959 | 3248967 | 56.1 | 9.4 | 19.3 | 5.4 | 3.3 | 1.7 | 0.3 | 5.04 | 204 | 21 | 19 | 44 |
| 3366 | 699048 | 3249475 | 48.8 | 8.4 | 28.5 | 4.4 | 2.3 | 1.8 | 0.38 | 6.18 | 297 | 29 | 17 | 52 |
| 3367 | 698994 | 3250408 | 56.5 | 11.4 | 11.6 | 6.3 | 2.3 | 2 | 0.2 | 2.33 | 133 | 26 | 21 | 45 |
| 3368 | 698890 | 3250573 | 46.3 | 8.1 | 35.1 | 3.3 | 2.7 | 1.9 | 0.27 | 2.34 | 135 | 38 | 6 | 161 |
| 3369 | 699058 | 3250921 | 39.3 | 8.1 | 39.5 | 5 | 1 | 1.3 | 0.45 | 8.67 | 362 | 33 | 19 | 82 |
| 3370 | 698928 | 3250939 | 45.2 | 10.8 | 24 | 7.2 | 3.7 | 1.2 | 0.33 | 6.41 | 256 | 26 | 26 | 43 |
| 3371 | 698931 | 3251323 | 60.4 | 10.9 | 15.3 | 4.8 | 1.9 | 2.2 | 0.23 | 2.83 | 143 | 33 | 15 | 90 |

| **SS** | **La** | **Ce** | **Nb** | **P** | **Li** | **V** | **Cr** | **Co** | **Ni** | **Sr** | **Sn** | **Ba** | **Zr** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SID** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** | **ppm** |
| 1 | 31 | 56 | 26 | 2083 | 11 | 119 | 183 | 15 | 49 | 318 | 9 | 329 | 410 |
| 4 | 24 | 24 | 13 | 2247 | 7 | 60 | 75 | 8 | 36 | 297 | 10 | 180 | 217 |
| 5 | 66 | 124 | 41 | 3085 | 29 | 310 | 103 | 36 | 65 | 316 | 12 | 336 | 235 |
| 7 | 84 | 172 | 80 | 2876 | 25 | 626 | 164 | 43 | 61 | 205 | 6 | 278 | 387 |
| 8 | 69 | 128 | 60 | 4661 | 29 | 577 | 194 | 50 | 81 | 291 | 38 | 321 | 321 |
| 16 | 43 | 94 | 28 | 3266 | 24 | 158 | 34 | 39 | 71 | 359 | 33 | 593 | 251 |
| 20 | 57 | 133 | 16 | 1015 | 14 | 69 | 14 | 18 | 30 | 181 | 25 | 853 | 287 |
| 21 | 39 | 95 | 28 | 2317 | 20 | 243 | 43 | 35 | 60 | 320 | 15 | 486 | 234 |
| 22 | 44 | 100 | 28 | 2772 | 18 | 165 | 28 | 26 | 49 | 338 | 32 | 653 | 470 |
| 23 | 48 | 99 | 29 | 3479 | 26 | 159 | 39 | 27 | 52 | 349 | 33 | 571 | 361 |
| 24 | 34 | 99 | 143 | 3728 | 15 | ### | 29 | 75 | 53 | 216 | 20 | 176 | 3278 |
| 25 | 40 | 91 | 24 | 2315 | 19 | 141 | 35 | 15 | 36 | 248 | 18 | 675 | 913 |
| 26 | 46 | 98 | 14 | 1411 | 15 | 61 | 23 | 4 | 17 | 306 | 12 | 573 | 269 |
| 27 | 47 | 89 | 31 | 2788 | 21 | 261 | 92 | 13 | 33 | 362 | 17 | 591 | 517 |
| 28 | 61 | 117 | 42 | 3281 | 26 | 253 | 45 | 23 | 43 | 631 | 20 | 460 | 508 |
| 29 | 42 | 82 | 23 | 2411 | 19 | 145 | 29 | 13 | 34 | 421 | 14 | 614 | 302 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 31 | 55 | 12 | 1445 | 21 | 61 | 20 | 2 | 20 | 374 | 9 | 840 | 208 |
| 31 | 42 | 81 | 20 | 2931 | 24 | 128 | 43 | 16 | 37 | 410 | 17 | 607 | 517 |
| 32 | 38 | 71 | 26 | 3314 | 21 | 211 | 38 | 21 | 52 | 452 | 22 | 824 | 351 |
| 34 | 78 | 174 | 64 | 1670 | 20 | 145 | 20 | 17 | 33 | 166 | 21 | 308 | 589 |
| 36 | 49 | 90 | 28 | 803 | 18 | 34 | 14 | 5 | 21 | 168 | 16 | 331 | 290 |
| 109 | 89 | 199 | 75 | 1634 | 30 | 305 | 43 | 26 | 50 | 159 | 21 | 243 | 519 |
| 110 | 74 | 137 | 42 | 1954 | 30 | 107 | 37 | 21 | 40 | 183 | 24 | 297 | 201 |
| 111 | 61 | 115 | 43 | 2420 | 28 | 154 | 52 | 25 | 51 | 230 | 26 | 348 | 206 |
| 269 | 141 | 316 | 89 | 4120 | 29 | 582 | 214 | 40 | 63 | 239 | 20 | 319 | 603 |
| 273 | 71 | 147 | 43 | 3371 | 30 | 177 | 39 | 21 | 46 | 250 | 28 | 348 | 239 |
| 274 | 54 | 116 | 43 | 4130 | 28 | 282 | 84 | 32 | 60 | 283 | 27 | 400 | 286 |
| 275 | 54 | 115 | 43 | 4095 | 28 | 279 | 84 | 31 | 61 | 283 | 29 | 398 | 253 |
| 276 | 86 | 190 | 63 | 2954 | 28 | 350 | 103 | 34 | 59 | 279 | 29 | 398 | 385 |
| 277 | 116 | 263 | 82 | 4139 | 25 | 464 | 125 | 31 | 56 | 239 | 24 | 322 | 553 |
| 278 | 129 | 322 | 160 | 5995 | 24 | 633 | 69 | 37 | 53 | 173 | 34 | 247 | 684 |
| 279 | 69 | 154 | 80 | 7722 | 30 | 321 | 32 | 45 | 57 | 436 | 34 | 546 | 341 |
| 282 | 49 | 101 | 33 | 5811 | 29 | 206 | 65 | 27 | 55 | 357 | 32 | 633 | 213 |
| 301 | 122 | 279 | 62 | 1887 | 25 | 166 | 26 | 10 | 26 | 128 | 15 | 299 | 575 |
| 302 | 58 | 130 | 32 | 1732 | 37 | 140 | 15 | 17 | 44 | 223 | 21 | 503 | 252 |
| 303 | 87 | 196 | 55 | 4630 | 29 | 412 | 105 | 43 | 62 | 290 | 23 | 342 | 297 |
| 304 | 54 | 109 | 30 | 2593 | 36 | 137 | 24 | 13 | 33 | 207 | 20 | 531 | 159 |
| 305 | 108 | 260 | 79 | 3507 | 23 | 778 | 231 | 55 | 66 | 216 | 6 | 242 | 484 |
| 306 | 175 | 461 | 126 | 3927 | 25 | 744 | 219 | 54 | 69 | 208 | 15 | 236 | 497 |
| 307 | 116 | 284 | 77 | 4236 | 31 | 495 | 104 | 32 | 59 | 249 | 24 | 291 | 503 |
| 308 | 80 | 200 | 68 | 2329 | 18 | 502 | 150 | 24 | 48 | 186 | 10 | 469 | 478 |
| 309 | 35 | 88 | 31 | 5891 | 43 | 363 | 83 | 49 | 62 | 451 | 28 | 1200 | 187 |
| 310 | 61 | 147 | 54 | 7079 | 32 | 294 | 94 | 40 | 61 | 346 | 28 | 483 | 206 |
| 311 | 97 | 254 | 71 | 3148 | 33 | 147 | 43 | 11 | 35 | 203 | 21 | 277 | 447 |
| 313 | 43 | 85 | 36 | 7144 | 25 | 245 | 81 | 22 | 48 | 403 | 15 | 696 | 194 |
| 601 | 108 | 265 | 64 | 3687 | 27 | 213 | 54 | 21 | 49 | 298 | 28 | 311 | 275 |
| 602 | 111 | 279 | 71 | 3216 | 24 | 288 | 77 | 17 | 43 | 236 | 24 | 295 | 349 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 603 | 87 | 218 | 57 | 4521 | 29 | 213 | 40 | 19 | 39 | 283 | 27 | 354 | 270 |
| 604 | 31 | 66 | 30 | 4454 | 26 | 248 | 48 | 14 | 30 | 198 | 17 | 275 | 210 |
| 605 | 64 | 144 | 37 | 3045 | 38 | 183 | 54 | 19 | 37 | 284 | 11 | 233 | 177 |
| 606 | 159 | 549 | 31 | 2263 | | 154 | 40 | 358 | 676 | | | | 152 |
| 607 | 123 | 318 | 87 | 3569 | 28 | 400 | 139 | 47 | 68 | 275 | 30 | 271 | 381 |
| 608 | 164 | 410 | 118 | 3383 | 19 | 946 | 297 | 72 | 82 | 165 | 7 | 165 | 1054 |
| 609 | 80 | 178 | 54 | 4051 | 33 | 201 | 52 | 28 | 54 | 281 | 28 | 375 | 308 |
| 610 | 78 | 163 | 54 | 4395 | 31 | 386 | 90 | 47 | 82 | 328 | 28 | 349 | 336 |
| 611 | 65 | 134 | 44 | 4076 | 34 | 264 | 52 | 41 | 75 | 334 | 32 | 365 | 330 |
| 612 | 77 | 167 | 55 | 3640 | 28 | 368 | 120 | 33 | 63 | 255 | 23 | 364 | 378 |
| 613 | 46 | 97 | 30 | 5735 | 26 | 254 | 111 | 35 | 58 | 366 | 28 | 508 | 313 |
| 614 | 69 | 146 | 41 | 4024 | 33 | 259 | 75 | 32 | 57 | 280 | 28 | 376 | 322 |
| 615 | 68 | 147 | 43 | 3096 | 29 | 239 | 67 | 30 | 61 | 242 | 29 | 370 | 307 |
| 616 | 52 | 108 | 36 | 4833 | 27 | 273 | 76 | 35 | 56 | 296 | 27 | 430 | 289 |
| 617 | 59 | 124 | 34 | 7941 | 28 | 328 | 71 | 42 | 58 | 351 | 33 | 503 | 343 |
| 618 | 41 | 88 | 21 | 2437 | 22 | 85 | 36 | 22 | 40 | 191 | 28 | 356 | 188 |
| 619 | 50 | 106 | 30 | 7325 | 31 | 277 | 66 | 43 | 63 | 339 | 35 | 511 | 336 |
| 620 | 75 | 161 | 53 | 6470 | 25 | 416 | 134 | 47 | 70 | 320 | 29 | 381 | 351 |
| 621 | 50 | 115 | 56 | 5934 | 24 | 410 | 161 | 46 | 69 | 412 | 34 | 341 | 308 |
| 622 | 199 | 623 | 262 | 4749 | 29 | 422 | 46 | 46 | 53 | 177 | 50 | 241 | 1198 |
| 623 | 53 | 114 | 46 | 7179 | 32 | 228 | 92 | 44 | 65 | 385 | 39 | 420 | 278 |
| 624 | 102 | 287 | 120 | 5127 | 33 | 500 | 160 | 49 | 65 | 232 | 42 | 284 | 664 |
| 625 | 45 | 102 | 48 | 8642 | 24 | 324 | 51 | 51 | 67 | 381 | 40 | 492 | 300 |
| 626 | 42 | 80 | 29 | 4053 | 27 | 143 | 31 | 23 | 42 | 344 | 21 | 423 | 252 |
| 627 | 44 | 87 | 25 | 3657 | 24 | 96 | 57 | 18 | 38 | 275 | 17 | 471 | 253 |
| 628 | 65 | 142 | 102 | 5843 | 26 | 807 | 166 | 58 | 75 | 262 | 25 | 289 | 380 |
| 629 | 53 | 109 | 36 | 5637 | 29 | 184 | 105 | 24 | 46 | 358 | 19 | 506 | 259 |
| 630 | 54 | 115 | 73 | 5830 | 26 | 636 | 93 | 51 | 72 | 317 | 18 | 353 | 360 |
| 631 | 54 | 117 | 73 | 5819 | 24 | 586 | 87 | 48 | 69 | 308 | 19 | 348 | 391 |
| 632 | 49 | 96 | 28 | 1966 | 25 | 63 | 16 | 16 | 33 | 211 | 17 | 385 | 168 |
| 633 | 93 | 204 | 68 | 4065 | 31 | 448 | 138 | 44 | 64 | 266 | 25 | 333 | 361 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 634 | 122 | 263 | 78 | 1495 | 28 | 186 | 33 | 24 | 50 | 174 | 25 | 222 | 440 |
| 635 | 89 | 183 | 52 | 4416 | 33 | 177 | 68 | 30 | 50 | 302 | 24 | 393 | 281 |
| 636 | 84 | 128 | 41 | 3168 | 28 | 111 | 37 | 24 | 48 | 269 | 27 | 440 | 270 |
| 645 | 113 | 266 | 84 | 3619 | 31 | 210 | 46 | 23 | 49 | 203 | 36 | 275 | 526 |
| 646 | 93 | 213 | 77 | 3657 | 24 | 459 | 137 | 27 | 54 | 210 | 29 | 310 | 550 |
| 901 | 80 | 167 | 67 | 5291 | 28 | 318 | 98 | 28 | 58 | 247 | 31 | 411 | 394 |
| 902 | 93 | 206 | 77 | 2876 | 25 | 347 | 102 | 27 | 53 | 249 | 24 | 337 | 390 |
| 903 | 94 | 192 | 59 | 3177 | 26 | 192 | 53 | 22 | 50 | 265 | 29 | 418 | 305 |
| 904 | 84 | 170 | 61 | 3635 | 26 | 302 | 79 | 32 | 66 | 286 | 30 | 570 | 402 |
| 905 | 86 | 173 | 62 | 3837 | 26 | 308 | 81 | 33 | 66 | 301 | 35 | 602 | 356 |
| 906 | 81 | 168 | 67 | 3051 | 21 | 236 | 53 | 22 | 49 | 186 | 27 | 299 | 368 |
| 907 | 127 | 258 | 74 | 2681 | 24 | 206 | 32 | 25 | 55 | 226 | 34 | 286 | 489 |
| 908 | 38 | 84 | 28 | 3024 | 17 | 111 | 34 | 26 | 51 | 275 | 30 | 573 | 259 |
| 909 | 83 | 182 | 60 | 3398 | 38 | 102 | 42 | 22 | 45 | 188 | 37 | 309 | 431 |
| 910 | 51 | 122 | 72 | 6288 | 27 | 640 | 223 | 52 | 85 | 354 | 31 | 572 | 376 |
| 911 | 72 | 187 | 73 | 985 | 21 | 47 | 18 | 13 | 27 | 122 | 32 | 193 | 425 |
| 912 | 63 | 140 | 74 | 5235 | 23 | 669 | 213 | 51 | 81 | 313 | 32 | 336 | 422 |
| 913 | 107 | 261 | 92 | 4133 | 21 | 587 | 208 | 53 | 80 | 256 | 44 | 257 | 392 |
| 914 | 37 | 82 | 22 | 1589 | 16 | 60 | 48 | 22 | 38 | 264 | 31 | 470 | 197 |
| 915 | 52 | 112 | 48 | 2888 | 24 | 230 | 80 | 32 | 54 | 284 | 36 | 430 | 314 |
| 1201 | 103 | 234 | 85 | 4110 | 23 | 775 | 295 | 51 | 79 | 262 | 6 | 304 | 451 |
| 1202 | 188 | 460 | 117 | 3901 | 22 | 509 | 87 | 25 | 46 | 144 | 24 | 232 | 1257 |
| 1203 | 104 | 250 | 72 | 3949 | 31 | 254 | 44 | 23 | 40 | 253 | 27 | 373 | 372 |
| 1204 | 87 | 173 | 54 | 1778 | 29 | 212 | 35 | 23 | 46 | 193 | 30 | 305 | 280 |
| 1205 | 73 | 139 | 47 | 3431 | 24 | 224 | 52 | 31 | 55 | 253 | 33 | 398 | 220 |
| 1261 | 54 | 100 | 47 | 4469 | 28 | 402 | 142 | 24 | 46 | 308 | 9 | 592 | 297 |
| 1262 | 73 | 167 | 89 | 4725 | 24 | ### | 402 | 47 | 61 | 271 | | 840 | 596 |
| 1265 | 47 | 86 | 44 | 5181 | 28 | 572 | 156 | 41 | 61 | 368 | 10 | 359 | 254 |
| 1266 | 53 | 103 | 50 | 5943 | 39 | 479 | 135 | 37 | 58 | 348 | 16 | 420 | 298 |
| 1267 | 77 | 171 | 63 | 3652 | 34 | 184 | 61 | 11 | 36 | 209 | 22 | 325 | 364 |
| 1268 | 83 | 186 | 57 | 3495 | 43 | 163 | 42 | 13 | 39 | 204 | 21 | 287 | 300 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1269 | 114 | 307 | 125 | 3775 | 26 | 638 | 201 | 44 | 64 | 220 | 17 | 246 | 717 |
| 1270 | 86 | 201 | 73 | 3827 | 30 | 298 | 70 | 19 | 47 | 220 | 27 | 316 | 322 |
| 1277 | 41 | 81 | 20 | 4373 | 41 | 248 | 82 | 24 | 45 | 285 | 18 | 514 | 262 |
| 1285 | 101 | 211 | 61 | 4708 | 33 | 322 | 98 | 27 | 60 | 230 | 28 | 443 | 412 |
| 1286 | 78 | 176 | 63 | 4501 | 32 | 275 | 107 | 30 | 66 | 227 | 34 | 316 | 453 |
| 1287 | 47 | 100 | 45 | 5319 | 41 | 410 | 139 | 40 | 72 | 301 | 34 | 331 | 324 |
| 1288 | 46 | 94 | 31 | 3681 | 26 | 401 | 174 | 25 | 42 | 284 | 21 | 486 | 479 |
| 1311 | 34 | 54 | 16 | 3940 | 31 | 198 | 60 | 23 | 45 | 416 | 20 | 515 | 197 |
| 1501 | 39 | 66 | 20 | 3874 | 32 | 240 | 63 | 19 | 41 | 365 | 18 | 616 | 221 |
| 1502 | 46 | 106 | 45 | 927 | 17 | 106 | 54 | 2 | 28 | 81 | 12 | 191 | 955 |
| 1503 | 121 | 258 | 70 | 2764 | 23 | 227 | 42 | 18 | 49 | 235 | 22 | 353 | 381 |
| 1504 | 114 | 282 | 94 | 1629 | 27 | 176 | 34 | 14 | 40 | 129 | 20 | 287 | 977 |
| 1505 | 90 | 185 | 64 | 2591 | 20 | 204 | 62 | 19 | 49 | 204 | 21 | 360 | 441 |
| 1506 | 67 | 138 | 55 | 2108 | 17 | 193 | 65 | 14 | 40 | 209 | 18 | 529 | 667 |
| 1507 | 45 | 97 | 23 | 1915 | 14 | 136 | 48 | 14 | 38 | 266 | 18 | 703 | 614 |
| 1508 | 70 | 131 | 37 | 3278 | 32 | 163 | 58 | 16 | 44 | 210 | 23 | 387 | 545 |
| 1510 | 185 | 468 | 119 | 5159 | 23 | 576 | 118 | 27 | 52 | 155 | 18 | 421 | 940 |
| 3001 | 37 | 55 | 24 | 1516 | 15 | 135 | 26 | 14 | 49 | 195 | 14 | 595 | 280 |
| 3003 | 33 | 36 | 21 | 1943 | 21 | 133 | 42 | 1 | 38 | 336 | 15 | 704 | 260 |
| 3004 | 50 | 48 | 26 | 2460 | 23 | 177 | 55 | 5 | 40 | 466 | 15 | 725 | 353 |
| 3005 | 27 | 27 | 5 | 2046 | 19 | 97 | 22 | 3 | 22 | 400 | 20 | 836 | 223 |
| 3006 | 38 | 42 | 21 | 1730 | 27 | 142 | 47 | 3 | 18 | 375 | 17 | 858 | 312 |
| 3007 | 36 | 43 | 21 | 1766 | 26 | 148 | 50 | 5 | 27 | 371 | 18 | 835 | 294 |
| 3008 | 33 | 37 | 19 | 2141 | 20 | 128 | 30 | 7 | 34 | 395 | 23 | 762 | 234 |
| 3009 | 33 | 36 | 17 | 1656 | 21 | 116 | 39 | 8 | 19 | 386 | 24 | 859 | 290 |
| 3010 | 54 | 59 | 19 | 3661 | 34 | 153 | 44 | 17 | 55 | 225 | 24 | 714 | 261 |
| 3011 | 45 | 61 | 35 | 2655 | 24 | 244 | 32 | 22 | 62 | 232 | 35 | 983 | 353 |
| 3012 | 37 | 44 | 27 | 2132 | 20 | 186 | 41 | 12 | 55 | 245 | 20 | 654 | 294 |
| 3013 | 37 | 42 | 18 | 1572 | 16 | 116 | 21 | 3 | 37 | 198 | 18 | 894 | 297 |
| 3014 | 48 | 65 | 20 | 1924 | 17 | 128 | 32 | 8 | 35 | 231 | 19 | 374 | 284 |
| 3015 | 39 | 51 | 28 | 2201 | 19 | 206 | 37 | 10 | 50 | 235 | 20 | 742 | 302 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3016 | 52 | 79 | 18 | 1340 | 20 | 128 | 26 | 12 | 50 | 275 | 25 | 557 | 272 |
| 3017 | 47 | 56 | 15 | 1175 | 15 | 104 | 27 | 2 | 15 | 293 | 5 | 602 | 284 |
| 3018 | 40 | 41 | 17 | 1676 | 20 | 124 | 32 | 7 | 28 | 365 | 9 | 738 | 257 |
| 3019 | 39 | 39 | 14 | 1768 | 20 | 116 | 27 | 7 | 20 | 376 | 10 | 761 | 255 |
| 3020 | 38 | 37 | 27 | 1907 | 24 | 241 | 38 | 12 | 47 | 433 | 6 | 639 | 299 |
| 3021 | 33 | 33 | 65 | 2215 | 24 | 742 | 34 | 42 | 72 | 356 | 9 | 483 | 303 |
| 3022 | 46 | 59 | 31 | 2117 | 17 | 242 | 32 | 28 | 67 | 338 | 17 | 540 | 250 |
| 3023 | 46 | 55 | 37 | 2648 | 19 | 304 | 40 | 41 | 76 | 384 | 20 | 496 | 256 |
| 3024 | 48 | 54 | 22 | 2061 | 18 | 129 | 45 | 18 | 59 | 365 | 14 | 649 | 247 |
| 3025 | 40 | 46 | 18 | 2377 | 25 | 167 | 46 | 16 | 49 | 350 | 10 | 652 | 247 |
| 3026 | 46 | 48 | 35 | 2133 | 20 | 267 | 51 | 17 | 47 | 385 | 15 | 633 | 269 |
| 3027 | 46 | 55 | 18 | 1767 | 20 | 136 | 30 | 15 | 44 | 359 | 11 | 691 | 248 |
| 3028 | 45 | 59 | 19 | 1967 | 20 | 145 | 31 | 14 | 45 | 362 | 11 | 701 | 255 |
| 3029 | 51 | 74 | 29 | 2142 | 20 | 230 | 48 | 30 | 51 | 359 | 10 | 668 | 315 |
| 3030 | 30 | 29 | 5 | 1695 | 19 | 92 | 16 | | 11 | 358 | | 689 | 197 |
| 3031 | 50 | 86 | 40 | 1995 | 18 | 384 | 76 | 50 | 68 | 299 | 11 | 589 | 347 |
| 3032 | 43 | 63 | 25 | 2138 | 17 | 173 | 41 | 18 | 54 | 318 | 12 | 585 | 247 |
| 3033 | 44 | 47 | 27 | 2380 | 19 | 137 | 28 | 12 | 45 | 282 | 13 | 663 | 259 |
| 3034 | 40 | 39 | 17 | 2126 | 19 | 115 | 27 | 9 | 32 | 290 | 13 | 675 | 245 |
| 3035 | 51 | 60 | 37 | 3087 | 22 | 204 | 37 | 28 | 60 | 283 | 20 | 696 | 300 |
| 3036 | 44 | 44 | 29 | 3040 | 18 | 111 | 37 | 12 | 53 | 220 | 16 | 567 | 250 |
| 3037 | 50 | 49 | 38 | 3355 | 19 | 136 | 47 | 19 | 60 | 217 | 21 | 713 | 270 |
| 3038 | 43 | 50 | 41 | 3338 | 18 | 315 | 63 | 29 | 69 | 249 | 21 | 548 | 310 |
| 3039 | 41 | 50 | 28 | 3598 | 20 | 192 | 39 | 25 | 58 | 326 | 26 | 616 | 270 |
| 3040 | 45 | 46 | 37 | 4682 | 28 | 205 | 63 | 28 | 91 | 284 | 31 | 483 | 245 |
| 3041 | 50 | 52 | 35 | 2615 | 22 | 114 | 26 | 18 | 32 | 188 | 29 | 363 | 220 |
| 3042 | 39 | 43 | 22 | 1072 | 18 | 73 | 18 | 19 | 28 | 218 | 25 | 404 | 208 |
| 3043 | 39 | 45 | 26 | 3637 | 24 | 182 | 40 | 22 | 67 | 351 | 20 | 620 | 227 |
| 3044 | 44 | 46 | 23 | 1869 | 19 | 82 | 30 | 12 | 47 | 195 | 14 | 838 | 243 |
| 3045 | 49 | 54 | 26 | 2584 | 21 | 120 | 38 | 18 | 51 | 245 | 18 | 899 | 322 |
| 3046 | 45 | 48 | 19 | 2228 | 20 | 111 | 33 | 16 | 40 | 247 | 19 | 784 | 308 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3047 | 40 | 48 | 33 | 3381 | 18 | 245 | 65 | 24 | 58 | 288 | 15 | 803 | 324 |
| 3048 | 33 | 35 | 16 | 2125 | 16 | 97 | 25 | 14 | 36 | 286 | 14 | 583 | 205 |
| 3049 | 39 | 44 | 33 | 2893 | 19 | 237 | 41 | 30 | 65 | 276 | 18 | 560 | 267 |
| 3050 | 38 | 43 | 30 | 2917 | 19 | 219 | 42 | 25 | 62 | 269 | 20 | 573 | 279 |
| 3051 | 31 | 36 | 33 | 2623 | 17 | 288 | 35 | 28 | 65 | 264 | 23 | 459 | 234 |
| 3052 | 48 | 52 | 25 | 1685 | 20 | 90 | 41 | 15 | 49 | 181 | 15 | 538 | 229 |
| 3053 | 47 | 53 | 25 | 2309 | 23 | 131 | 48 | 25 | 56 | 316 | 20 | 636 | 342 |
| 3054 | 46 | 58 | 27 | 2635 | 17 | 152 | 28 | 26 | 61 | 341 | 26 | 540 | 262 |
| 3055 | 35 | 44 | 36 | 3167 | 17 | 310 | 41 | 33 | 71 | 324 | 33 | 514 | 263 |
| 3056 | 47 | 57 | 31 | 2825 | 19 | 127 | 36 | 23 | 48 | 289 | 23 | 623 | 274 |
| 3057 | 47 | 53 | 29 | 2823 | 18 | 92 | 27 | 20 | 25 | 247 | 23 | 634 | 255 |
| 3058 | 49 | 67 | 31 | 3000 | 19 | 165 | 30 | 28 | 63 | 358 | 33 | 556 | 262 |
| 3059 | 40 | 55 | 29 | 3587 | 24 | 154 | 38 | 28 | 68 | 392 | 33 | 717 | 262 |
| 3060 | 40 | 60 | 35 | 3459 | 24 | 197 | 44 | 45 | 78 | 373 | 36 | 703 | 295 |
| 3061 | 52 | 66 | 51 | 1907 | 20 | 174 | 41 | 22 | 33 | 174 | 28 | 334 | 358 |
| 3062 | 47 | 62 | 35 | 2385 | 20 | 119 | 29 | 19 | 48 | 249 | 16 | 621 | 303 |
| 3063 | 40 | 51 | 31 | 3408 | 22 | 172 | 23 | 28 | 61 | 401 | 21 | 757 | 271 |
| 3064 | 53 | 69 | 28 | 3394 | 24 | 240 | 28 | 51 | 78 | 382 | 24 | 565 | 256 |
| 3065 | 47 | 72 | 27 | 2410 | 21 | 217 | 42 | 34 | 66 | 384 | 26 | 395 | 307 |
| 3066 | 60 | 84 | 29 | 2584 | 19 | 191 | 27 | 33 | 60 | 356 | 29 | 410 | 309 |
| 3067 | 38 | 56 | 38 | 3584 | 28 | 360 | 75 | 59 | 100 | 410 | 30 | 361 | 251 |
| 3068 | 66 | 100 | 24 | 2230 | 20 | 113 | 32 | 28 | 59 | 261 | 30 | 958 | 355 |
| 3069 | 49 | 60 | 28 | 3763 | 30 | 196 | 36 | 36 | 76 | 324 | 37 | 880 | 297 |
| 3070 | 41 | 61 | 28 | 2815 | 26 | 178 | 33 | 36 | 64 | 309 | 35 | 773 | 304 |
| 3294 | 65 | 209 | 63 | 2034 | 18 | 82 | 20 | 29 | 54 | 121 | 34 | 232 | 1008 |
| 3295 | 87 | 281 | 66 | 3324 | 28 | 205 | 31 | 57 | 105 | 326 | 50 | 384 | 1441 |
| 3296 | 126 | 454 | 112 | 5075 | 25 | 571 | 74 | 68 | 109 | 226 | 33 | 321 | 1923 |
| 3297 | 52 | 148 | 42 | 2228 | 16 | 43 | 32 | 10 | 32 | 224 | 16 | 486 | 304 |
| 3298 | 51 | 154 | 46 | 2138 | 14 | 53 | 32 | 6 | 28 | 219 | 15 | 484 | 336 |
| 3299 | 45 | 119 | 32 | 5147 | 19 | 192 | 52 | 25 | 49 | 441 | 24 | 681 | 306 |
| 3300 | 40 | 104 | 30 | 4869 | 19 | 144 | 49 | 26 | 60 | 507 | 33 | 697 | 349 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3301 | 52 | 159 | 52 | 5465 | 20 | 313 | 81 | 39 | 69 | 349 | 26 | 545 | 368 |
| 3302 | 67 | 190 | 49 | 3681 | 24 | 96 | 24 | 15 | 36 | 191 | 23 | 271 | 281 |
| 3303 | 53 | 124 | 33 | 2943 | 19 | 45 | 14 | 3 | 17 | 185 | 21 | 266 | 193 |
| 3304 | 50 | 130 | 30 | 3624 | 18 | 97 | 25 | 2 | 25 | 284 | 16 | 703 | 282 |
| 3308 | 60 | 162 | 42 | 3540 | 22 | 90 | 19 | 17 | 32 | 184 | 21 | 318 | 331 |
| 3309 | 49 | 126 | 31 | 3071 | 20 | 51 | 15 | 12 | 35 | 180 | 19 | 319 | 350 |
| 3310 | 41 | 95 | 27 | 1454 | 18 | 42 | 14 | | 11 | 143 | 12 | 218 | 233 |
| 3311 | 54 | 116 | 29 | 3049 | 20 | 65 | 23 | 22 | 46 | 259 | 31 | 416 | 206 |
| 3328 | 240 | 951 | 149 | 6399 | 26 | 618 | 145 | 29 | 60 | 228 | 2 | 249 | 1190 |
| 3329 | 206 | 770 | 143 | 10778 | 35 | 572 | 128 | 49 | 91 | 281 | 38 | 533 | 906 |
| 3330 | 208 | 822 | 128 | 5743 | 21 | 216 | 25 | 19 | 49 | 182 | 18 | 239 | 710 |
| 3331 | 88 | 285 | 50 | 4989 | 30 | 189 | 56 | 26 | 56 | 234 | 13 | 261 | 323 |
| 3332 | 90 | 301 | 59 | 6574 | 29 | 283 | 94 | 38 | 61 | 267 | 19 | 285 | 352 |
| 3333 | 86 | 295 | 54 | 4118 | 29 | 117 | 36 | 28 | 64 | 227 | 22 | 289 | 255 |
| 3334 | 116 | 416 | 79 | 6193 | 23 | 370 | 139 | 40 | 68 | 210 | 12 | 271 | 477 |
| 3335 | 135 | 487 | 90 | 6252 | 26 | 359 | 110 | 38 | 63 | 211 | 26 | 267 | 546 |
| 3336 | 44 | 146 | 34 | 4149 | 20 | 125 | 47 | 36 | 51 | 247 | 26 | 333 | 201 |
| 3337 | 124 | 417 | 80 | 5313 | 32 | 181 | 50 | 28 | 49 | 265 | 31 | 372 | 357 |
| 3338 | 54 | 178 | 32 | 3354 | 22 | 46 | 16 | 22 | 35 | 224 | 28 | 415 | 220 |
| 3339 | 107 | 372 | 98 | 6658 | 28 | 859 | 324 | 74 | 108 | 325 | 9 | 314 | 458 |
| 3340 | 128 | 444 | 81 | 5905 | 28 | 195 | 70 | 50 | 74 | 317 | 48 | 354 | 371 |
| 3341 | 179 | 585 | 95 | 3041 | 32 | 121 | 22 | 44 | 65 | 203 | 48 | 391 | 535 |
| 3342 | 165 | 583 | 100 | 5410 | 30 | 278 | 56 | 8 | 42 | 233 | 16 | 322 | 609 |
| 3343 | 193 | 722 | 124 | 5167 | 22 | 371 | 66 | 96 | 119 | 186 | 87 | 220 | 849 |
| 3344 | 115 | 388 | 77 | 5558 | 28 | 295 | 78 | 108 | 128 | 240 | 98 | 293 | 391 |
| 3345 | 112 | 382 | 101 | 4402 | 22 | 470 | 109 | 106 | 135 | 244 | 92 | 301 | 660 |
| 3346 | 94 | 276 | 65 | 5647 | 25 | 250 | 51 | 24 | 43 | 271 | 16 | 396 | 464 |
| 3347 | 100 | 282 | 65 | 5016 | 28 | 323 | 81 | 43 | 71 | 282 | 34 | 311 | 646 |
| 3348 | 98 | 280 | 58 | 3507 | 32 | 229 | 43 | 21 | 43 | 230 | 27 | 313 | 618 |
| 3349 | 91 | 292 | 61 | 6488 | 31 | 182 | 35 | 11 | 24 | 300 | 20 | 374 | 439 |
| 3350 | 218 | 760 | 125 | 5757 | 34 | 289 | 41 | 4 | 27 | 185 | 9 | 255 | 970 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3351 | 120 | 404 | 93 | 9206 | 32 | 599 | 68 | 32 | 50 | 279 | 19 | 320 | 778 |
| 3352 | 99 | 308 | 57 | 5954 | 38 | 131 | 39 | 15 | 35 | 256 | 18 | 333 | 485 |
| 3353 | 82 | 251 | 49 | 4472 | 33 | 93 | 27 | 12 | 28 | 248 | 20 | 359 | 365 |
| 3354 | 55 | 150 | 38 | 5062 | 26 | 134 | 45 | 12 | 30 | 279 | 23 | 381 | 299 |
| 3355 | 79 | 234 | 44 | 2628 | 31 | 63 | 21 | | | 195 | | 378 | 245 |
| 3356 | 95 | 303 | 52 | 2438 | 24 | 70 | 16 | | | 178 | | 379 | 340 |
| 3357 | 72 | 209 | 45 | 6613 | 30 | 262 | 87 | | 16 | 324 | | 390 | 651 |
| 3358 | 78 | 243 | 56 | 5206 | 22 | 387 | 122 | | 14 | 244 | | 360 | 473 |
| 3359 | 105 | 354 | 80 | 5797 | 25 | 600 | 163 | 5 | 27 | 225 | | 330 | 686 |
| 3360 | 43 | 123 | 28 | 7519 | 42 | 188 | 93 | 16 | 30 | 390 | | 583 | 334 |
| 3361 | 66 | 179 | 51 | 9495 | 31 | 410 | 137 | 10 | 41 | 364 | 10 | 371 | 1214 |
| 3362 | 50 | 162 | 52 | 5471 | 25 | 405 | 148 | 14 | 28 | 271 | | 330 | 305 |
| 3363 | 49 | 146 | 43 | 5717 | 27 | 292 | 98 | 12 | 37 | 301 | | 369 | 226 |
| 3364 | 70 | 196 | 87 | 5555 | 9 | 818 | 226 | 27 | 53 | | | 5 | 360 |
| 3365 | 71 | 191 | 57 | 7259 | 23 | 420 | 138 | 18 | 41 | 245 | | 314 | 262 |
| 3366 | 75 | 216 | 76 | 5116 | 24 | 663 | 173 | 21 | 45 | 201 | | 289 | 419 |
| 3367 | 63 | 179 | 37 | 7800 | 32 | 196 | 76 | 13 | 27 | 306 | | 372 | 253 |
| 3368 | 220 | 738 | 123 | 4258 | 26 | 370 | 43 | 6 | 30 | 138 | 5 | 241 | 1081 |
| 3369 | 106 | 340 | 100 | 6289 | 24 | 931 | 275 | 33 | 57 | 214 | | 268 | 567 |
| 3370 | 46 | 133 | 53 | 11150 | 25 | 541 | 163 | 30 | 55 | 377 | | 406 | 297 |
| 3371 | 130 | 397 | 81 | 4445 | 28 | 239 | 50 | 17 | 38 | 218 | 9 | 307 | 453 |

***Note:*** *The sample locations are inaccurate as the shift can be up to a hundred meters from the actual location due to the methods adopted for conducting the regional survey in the 1990s.*