

Site and Sampling Description

Alfonso Rodriguez

r³ environmental technology Colombia SAS.

www.r3environmental.com.co

Segovia, Antioquia

- **Coordinates:** 7°, 04, '28" North latitude and 74°, 41, '56" West longitude.
- **Total Area:** 1.231 Km² (Urban: 5,6 Km² And Rural: 1.225,4 Km²)
- **Altitude of the municipal head:** 650 m.a.s.l.
- **Average Temperature:** 24°C
- **Reference distance:** 227 Km from Medellín, by uncovered roads and moderate conditions.

Source: (Mayoralty of Segovia-Antioquia, 2012)



In Colombia



In Antioquia



Municipality of Segovia

Source: (DigitalGlobe & Google, 2016)

Segovia, Antioquia

The economic activity of the municipality is mainly concentrated in the exploration and exploitation of the gold material, the municipality produces 39.4% of regional production in gold and 6.66% of the national production.

- (Mayoralty of Segovia-Antioquia, 2012).

In 2009, the United Nations warned that the area between Segovia and Remedios was the third most polluted in the world due to the misuse of mercury, chromium and cyanide, mainly in mining (it was estimated that there were emissions of 180 tons of mercury per year in the region)

- (Editorial Staff Vivir, 2013)

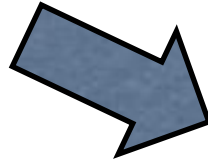
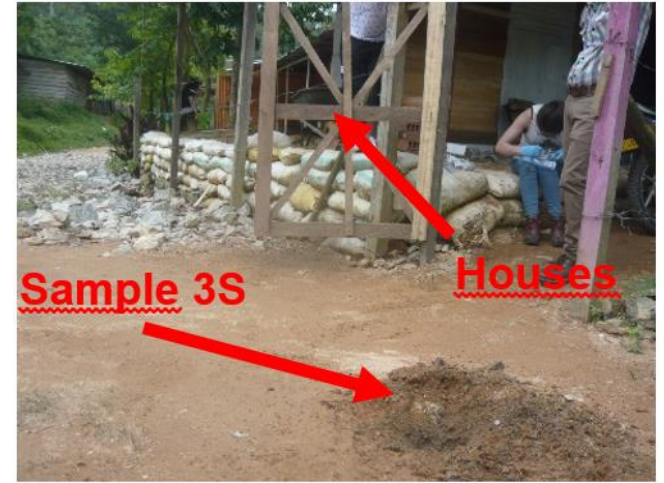
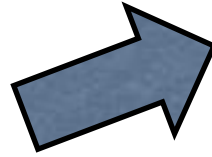
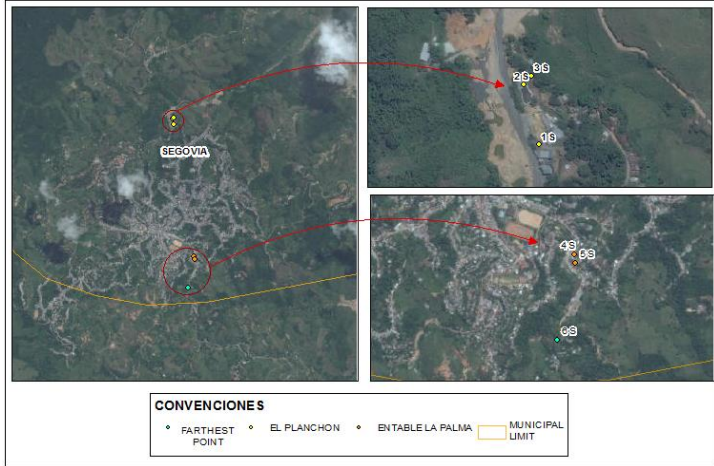
The most worrying thing about illegal mining in Antioquia is that it is falling into the hands of criminal gangs. According to complaints investigated by the General Attorney, Remedios and Segovia could be an example of this

- (Criminal gangs are taking illegal mining in Antioquia, 2015)



Source: (DigitalGlobe & Google, 2016)

Sampling



Tadó, Chocó

- **Total Area:** 878 Km²
- **Altitude of the municipal head:** 75 m.a.s.l.
- **Average Temperature:** 27°C - 28°C
- **Reference distance:** 66 Km from Quibdó, 549 Km from Bogotá
- **Located in** the eastern part of the department of Chocó, its municipal head is located at 76°73'10 "west longitude, to the left margin of the San Juan river and to the right of the river Mungarrá.

Source: (Mayoralty of Segovia-Antioquia, 2012)



Source: (DigitalGlobe & Google, 2016)

Tadó, Chocó

One of the most representative gold mining municipalities in gold mining tradition.

- PNUMA & MADS, 2012)

In the municipality stands out the community organization Asocasan, which led the initiative to improve the living conditions of the black population of the basin through the integration of communities.

- (Torres Gutiérrez, Pinzón Salcedo, Esquivia Zapata, Parra Pizarro, & Espitia Jiménez).

An experience of exploitation of gold denominated “Oro Verde” (Green Gold) has been developed mostly illegally, exploitation of precious metals is performed by means of backhoes open.

- (Torres Gutiérrez, Pinzón Salcedo, Esquivia Zapata, Parra Pizarro, & Espitia Jiménez).

The inhabitants are proud to say that for more than three years in the urban area there is no violent death.

- (Zapata Gallo, 2013)



Source: (DigitalGlobe & Google, 2016)

Sampling

