

# Placer Deposits

**Placer Deposits** are defined as economic accumulations of valuable minerals; such as gold, platinum, tin, tungsten, titanium, diamonds and zircon, which have been concentrated by mechanical action due to their high density and resistance to chemical weathering and physical abrasion. Alluvial deposits, formed by rivers and streams, are the biggest component of placers but the term also includes colluvial (gravity driven rock debris), eluvial (residual in-situ rock breakdown), beach and aeolian (wind transported) deposits, amongst others.

The nature of placer deposits can lead to cheaper excavation and processing costs than required for hard rock mining often providing the potential to generate early cash flow in a project to fund possible future hard rock exploration.



## SRK ES offers:

**Experience** in gold, platinum, tin and diamond placer deposits associated with ancient and recent geological terranes, in countries such as Guyana, Peru, Canada, Spain, Russia, Liberia, Guinea, Congo-Brazzaville, Zimbabwe, South Africa, Sierra Leone, Mali, Tanzania and the DRC.

**Expertise** in the management of the potentially severe environmental, social and economic implications of mining placer deposits. Principally this requires maintenance of good relationships with the local artisanal mining operations and other stakeholders on or near client properties.

**Innovation** through the use of the latest techniques for the evaluation of placer deposits including ground penetrating radar (GPR), sonic core drilling and vibracoring sampling techniques.

**Knowledge** of a wide range of recovery techniques and equipment design; from those used in small-scale workings to much larger mechanised operations that require dedicated processing plants. SRK ES understands that it is vital for the concentration and recovery equipment used during exploration should imitate as much as possible the proposed up-scaled recovery process to be used in future mining operations.

**A complete geological picture** of the prospective placer deposit by combining historical data with new information. This is collected by mapping, pitting, trenching, panning, stream sediment sampling, bulk sampling, trial mining, dredging and drilling (auger and reverse circulation) in combination with ground and airborne geophysical surveys, remote sensing interpretation and geological (including geomorphology, stratigraphy, sedimentology and granulometry) analysis.

SRK ES can ensure that rigorous geological control is enforced during the implementation of systematic exploration and sampling methods in order to obtain representative samples in compliance with internationally recognised standards and reporting codes.

To find out more about our technical services or discuss your project specific needs, please contact us;



**SRK Exploration Services Ltd**  
12 St. Andrews Crescent  
Cardiff  
CF10 3DD  
United Kingdom

**UK:** +44 (0) 2920 233 233  
**Moscow:** +7 (495) 692 24 28  
**Copenhagen:** +45 373 088 71  
**Email:** [enquiries@srkexploration.com](mailto:enquiries@srkexploration.com)  
**Web:** [www.srkexploration.com](http://www.srkexploration.com)