

# **China Coal Resources Pty Ltd**

**Lake Pieman Project – E.L. 15/2007**

**Annual Report for the Period**

**24 July 2010 to 23 July 2011**

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**Date:** 8<sup>th</sup> August 2011

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## 1. Introduction

This report covers exploration conducted on EL15/2007, Lake Pieman, during the reporting period 24 July 2010 to 23 July 2012. In-field exploration was conducted during April to May 2011. During the reporting period the tenement holder, ASF Resources Limited entered into a joint venture with China Coal Geology Engineering Corporation to explore for polymetallic mineralisation over the tenement under the joint venture company China Coal Resources Pty Ltd (CCR). The tenement has been transferred and registered to CCR. The tenement is valid until 23 July 2012.

The joint venture is exploring for epigenetic base metal mineralisation associated with Devonian granite emplacement with Renison Bell type mineralisation and skarn mineralisation being the primary exploration models.

## 2. Location and Access

EL15/2007 is located 15km west of Renison Bell tin mine and approximately 30km west of Rosebery in western Tasmania (Fig.1). The West Coast Highway, A10, borders the eastern side of the tenement while the Pieman Road, 245, provides limited access to the northern sector of the tenement. The Zeehan-Granville Harbour road provides limited access to the southern areas of the tenement. The Pieman River and Dam traverses the centre of the tenement area. Access is limited and topography rugged with much of the tenement comprising the steep sides of the Pieman valley.

The tenement is thickly vegetated with vegetation varying from button grass and heath through thick tea tree scrub and mature eucalypt forest. Altitude difference throughout the tenement is 300-400m. The GDA94 Coordinate System is used in this work and a 13.5° east declination correction was applied for compass bearings.

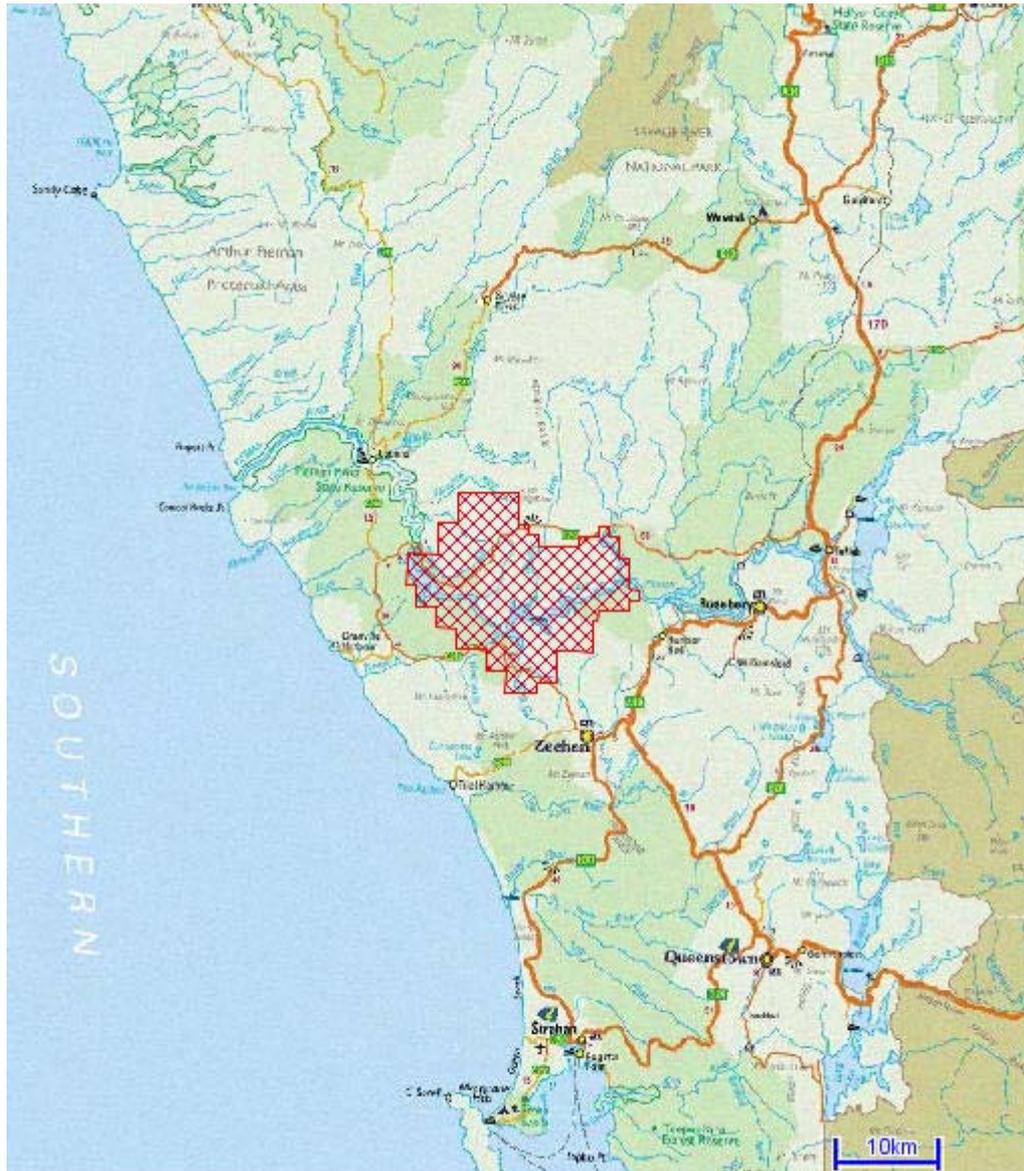


Figure 1: Location and Access E.L. 15/2007

## 3.0 Regional Geology and Mineralisation

### 3.1 Geology and Tectonics

The oldest rocks in the region are the Meso to Neoproterozoic quartzitic rocks of the Tyennan Block which provide basement to the younger sequences in western and south-western Tasmania (Fig.2). In the area of interest the Tyennan Group is overlain by the quartzwacke turbidite rocks of the Oonah Formation (1000-750Ma) which were deposited in an N-S trending basin which was probably a precursor to the later Dundas Trough. The upper sequence of the Oonah Formation is dominated by pelites and/or carbonates with some mafic rocks and conglomerates. This part of the

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sequence provides an important host to vein, skarn and replacement tin deposits at Zeehan and Mt. Bischoff.

The Oonah Formation is disconformably or unconformably overlain by the Success Creek and Crimson Creek Groups of the Togari Group of Upper Neoproterozoic to Lower Cambrian age (750-520Ma). In the area of interest these rocks tend to comprise a lower sequence of dolomitic shallow water sediments resting on basal conglomeratic sandstone followed by an upper mafic rift volcanics and associated volcanoclastic sediments. The lower dolomitic sequence is important hosts to the tin replacement deposits of Renison Bell.

The above sequence was subjected to a number of major deformations during the Tyennan Orogeny commencing with west the south directed compression (515 – 510Ma) followed by E-W extension from the Middle Cambrian which produced the linear narrow Dundas Trough. The Dundas Trough was an important depositional site for the Mount Read Volcanics and associated sediments and their associated polymetallic mineralisation.

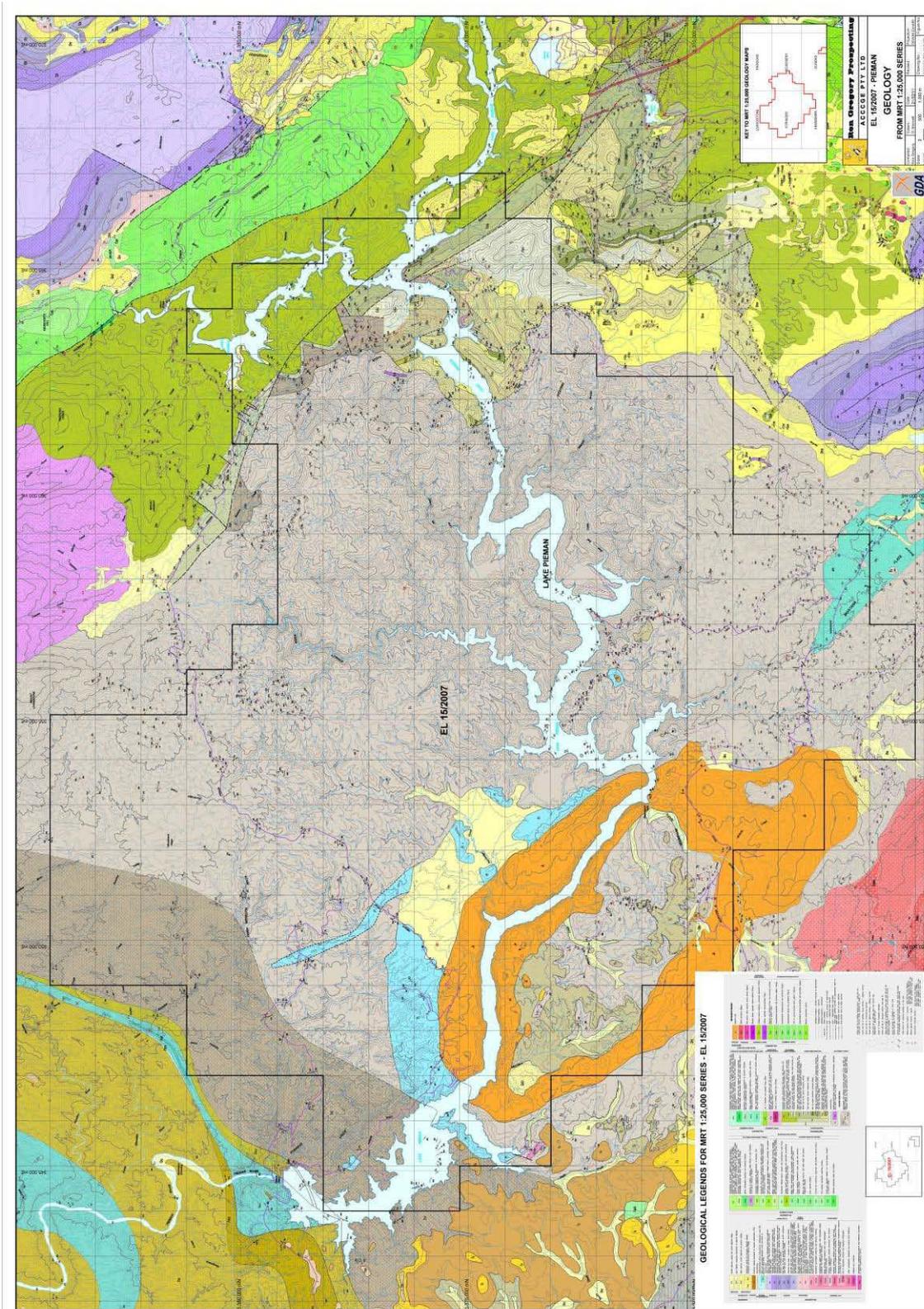
The Mount Read Volcanics (MRV) are divided into three sequences. The Central Volcanic Sequence (CVS) is comprised of marine, proximal volcanics comprised of rhyolite and dacite domes and crypto domes, massive pumice breccias, andesite and rare basalts. The CVS is host to most of the polymetallic volcanogenic mineralisation in the Dundas Trough (Rosebery, Hellyer, and Que River). The CVS inter fingers with the Western Volcano-Sedimentary Sequence to the west comprised of lithicwacke turbidites, mudstones, siltstones, shale with subordinate intrusive rocks and lavas. The CVS inter fingers with the Eastern Quartz Phyrlic Sequence (EQPS) to the east, comprised of quartz phyrlic lavas, intrusive porphyries and volcanoclastics intruded by magnetite series granite.

The MRV on the western side of the Dundas Trough is overlain by the Tyndall Group comprised of quartz bearing volcanoclastic sandstone and conglomerates of mixed felsic and andesitic provenance. Some workers (Seymour et al, 2007) have suggested that the Tyndall Group is a time correlate of the EQPS to the east.

In the Late Cambrian – Lower Ordovician, a period of E-W compression caused basin inversion of the Dundas Trough, resulting in uplift of the Tyennan Block to the west and subsequent deposition of the Owen Group conglomerate in a half graben on the western side of the Dundas Trough. Basin inversion also caused reactivation of the major faults in the Dundas Trough.

In the Middle Devonian, Tasmania was affected by polyphase deformation, attendant folding and intrusion by major I – type granite batholiths. In the west most

of the intrusions post-date the folding event and are represented by reduced, moderately to strongly fractionated I-type granite.



**Figure 2:** Regional Geological Map

## 3.2 Mineralisation

The tenement locates in a highly mineralised region with major deposits of volcanogenic base metals associated with the Mount Read Volcanics and epigenetic tin and base metal mineralisation associated with the late Devonian granite intrusions (Figure 3).

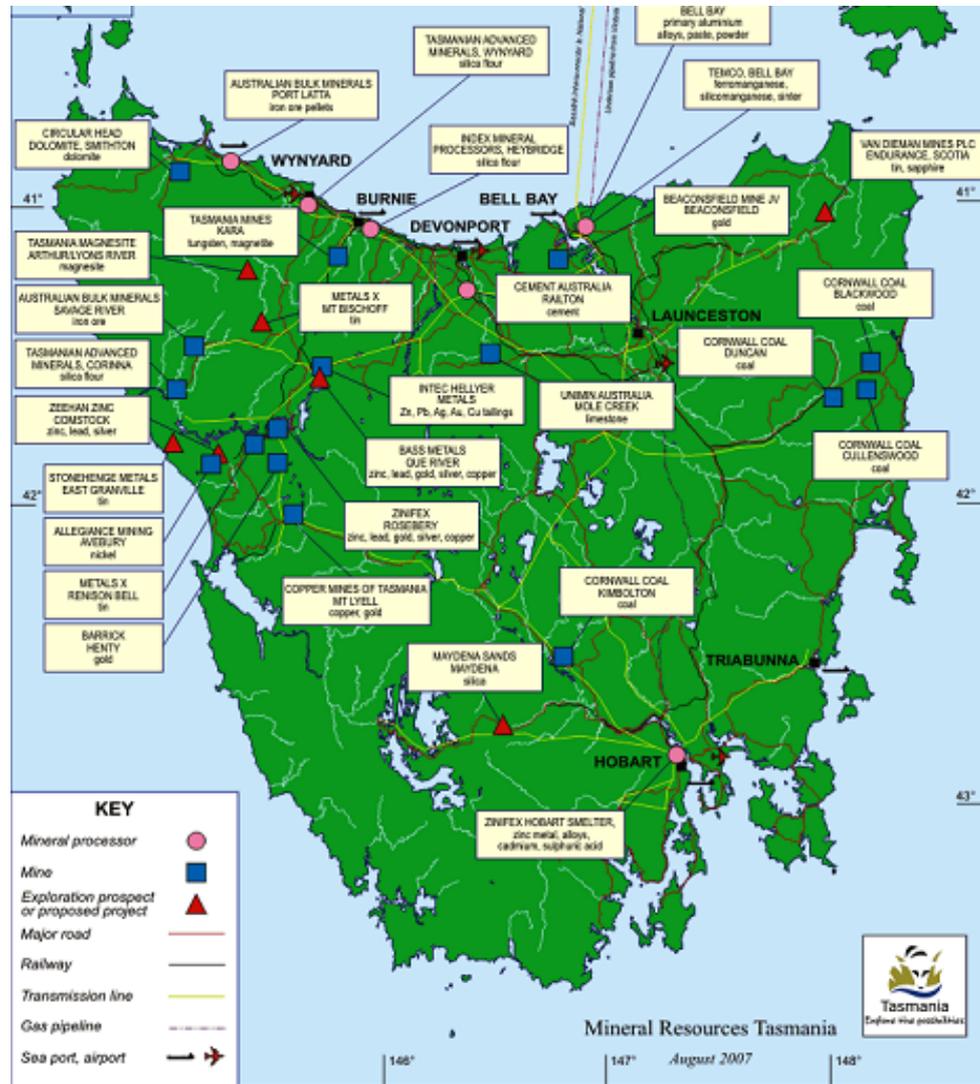


Figure 3: Locations of Major Tasmanian Mineral Deposits

### 3.2.1 Volcanogenic Massive Sulphide Deposits

These deposits are associated with the development of the Dundas Trough and hosted by the Mt. Read Volcanics. Examples are Mt. Lyell (311Mt @ Cu 0.97%, Au 0.31g/t), Rosebery ( 34.03 Mt @ Zn 13.8%, Pb 4.1%, Cu 0.57%, Ag 143g/t, Au 2.2g/t), Hellyer (16.50 Mt @ Zn 13.9%, Pb 7.2%, Ag 169g/t, Au 2.55g/t) and Henty ( 2.83 Mt @ Au12.5g/t).

Although the ore deposit observed in this tenement are related to Cambrian submarine volcanic activity, with further work the authors believe that the

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volcanogenic model does not apply to all the formation of the deposits. During the survey the authors observed that the formation of some ore deposits are obviously controlled by rift structures, such as at Rosebery and Henty gold mine, indicating that the enrichment of the metallogenic elements of these deposits takes place again at least after the volcanic activity, and the metallogenic elements with high content in Cambrian volcanic rock provide element source for the mineralisation in future. This fact expands our scope of exploration in that attention should be paid to not only the place where the central volcanic rock is, but also the area having similar structure environment and volcanic activity as Dundas geosyncline in the Cambrian period, Tasmania.

### **3.2.2 Epigenetic Mineralisation**

The mineralisation type is more common, which usually localised in the contact zone around the granite margins. The main deposit ore types are pyrometamorphic polymetallic ore including lead, silver, zinc, tin and skarn lead and zinc deposits. Examples include Renison Bell (24.54 Mt @ Sn1.41%), Mt Bischoff (10.54Mt @ Sn1.1%), Oceania (2.6Mt Pb7.7%, Zn2.5% and Ag55g/t).

Apart from the above mineral ores, there are also reported occurrences of alluvial tin, gold, osmium, iridium, platinum and lateritic nickel and cobalt, chromite. These findings indicate that it is possible that we can find relevant mineral ores in the ultrabasic rock which are constantly found in the tenement.

## **4.0 Tenement Geology, Structure and Mineralisation**

The geology of the EL is dominated by the Neo-Proterozoic (1000-750Ma) Oonah Formation, a sequence of greywacke, pelites, siltstones and quartz sandstones. This unit was probably the precursor to the Dundas Trough. In the NE sector of the tenement, the overlying early Cambrian Success Creek Formation is present: a sequence of sandstones, siltstones, volcanoclastics with minor carbonate beds and tholeiitic basalts (Figure 2).

Intrusive rocks in the tenement are represented by Oonah Formation gabbro in the southwest and a few diabase veins in the east. Granite is seen in a small number of locations with the exposed area of about 15m<sup>2</sup>.

Diabase veins are mainly distributed in the east of the work area. Their weathering surface is tan in colour. They have fine grained texture and massive structure (Photo 1). The main minerals are pyroxene and plagioclase, with less than 0.5 mm granularity. Some plagioclase have 1-2 mm granularity. Accessory minerals are sparsely disseminated iron pyrite and chalcopyrite with a grain size less than 0.1 mm and less than 0.1% content.

The weathering surface of granite is pale tan (Photo 2) with a massive structure, mainly composed of feldspar and quartz, with the granularity of 2-5 mm. Feldspar has been weathered to kaolin, with clear quartz grains.

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The strike of the strata in the tenement is mainly NW-SE and to a lesser extent, E-W and N-S direction. The rift structure mainly includes three direction groups: NW, NE and EW.

Based on the regional and local geological characteristics, CCR's exploration targets are iron ore, copper, zinc and tin of epigenetic vein and skarn styles as well as volcanogenic deposits.

To the immediate south of the tenement, tin mineralisation is developed within the aureole of the Devonian Heemskirk Granite both as veins associated with tourmaline and as alluvial deposits (Laffers, St. Dizier, and Tasman River). Similar tin deposits occur to the immediate north of the tenement associated with the large Livingstone Creek Devonian granite batholith. The large replacement tin deposit of Renison Bell locates approximately 5km to the east of the tenement eastern boundary.

Within the EL, the only known mineral occurrences are alluvial tin workings at the Eureka alluvial tin field near Heemskirk Falls, two minor lead prospects and two pyrite prospects.



**Photo 1: Diabase ( the bright yellow point on the right side is chalcopyrite )**



**Photo 2: Granite**

## 5. Review of previous work

Historically, it appears that there has been relatively little exploration undertaken over much of the area covered by EL 15/2007. The degree of overlap with prior tenements has been minimal, covering only small regions along the fringes of the present day licence, and in some instances exploration coverage may not have extended over these areas. Table 1 provides a brief summary of work completed by former tenement holders where overlap has occurred. A more detailed description of the nature of work and subsequent findings follows.

**Table 1: Previous Work by Other Companies over EL 15/2007**

| Company            | Period                     | Licence | Target                         | Exploration Activities   |
|--------------------|----------------------------|---------|--------------------------------|--|
| RGC<br>Exploration | 1989 – 1992<br>1993 - 1994 | 42/1987 | Base metals, tin               | C-horizon soil sampling, aeromagnetics, geological mapping & rock chip sampling. Diamond drilling at Sylvester (SY002 – SY016)) and one stratigraphic drill hole (PL001) at Parting Lake. Down hole SIROTEM survey of SY016. Feasibility study of Sylvester Prospect |
| Cavenridge<br>P/L  | )<br>) 1990-94?<br>)       | 23/1990 | Granite                        | Detailed review of previous exploration and follow-up field reconnaissance   |
| Cavenridge<br>P/L  | ) “<br>)                   | 29/1992 | Granite, tin                   | As above   |
| Bruce<br>Resources | 1995                       | 12/1994 | Chromite, gold,<br>osmiridium, | Detailed literature search & assessment of prior exploration   |

|   |                     |         |   |  |
|---|---------------------|---------|---|--|
| N.L.  |                     |         | platinoids & tin                                  |  |
| JV :<br>Goldstream<br>Mining N.L. &<br>Titan<br>Resources | 1995 - 1999<br>2000 | 43/1994 | Proterozoic iron<br>formation-hosted<br>lode gold | Stream sediment sampling & aeromag survey of<br>entire licence. Detailed follow-up of anomalous<br>areas incl. stream sediment & soil sampling, &<br>diamond drilling (8 cored DDH)<br>Airborne heli-EM survey |
| Adamus<br>Resources Ltd                                   | 2002 -<br>present   | 18/2002 | Ni, Platinoids & Au                               | Review of previous exploration & aeromag results<br>with follow-up stream sediment sampling and<br>analysis  |

**RGC Exploration** commenced work on **EL 42/1987** in 1989 with a programme including c-horizon soil sampling, aeromagnetics, detailed geological mapping and rock chip sampling. This EL had a small area of overlap in its top NW corner with EL 15/2007. Two areas were chosen for more detailed follow-up – Parting Lake and Comstock (later named Sylvester) - and grids were established to cover the areas. During 1990/1992 diamond drilling was undertaken at Sylvester: to test a 1.2 km Zn-Pb-(Sn-Au) anomaly (holes SY002 & SY003) associated with ironstones and decomposed carbonates of the Upper Oonah Formation, and to test the source of two intense magnetic anomalies associated with the Balstrup Fault (SY004 & SY005). These delineated a significant base metals skarn, and a further 10 holes were completed to test the extent of the deposit. Exploration ceased in 1992, however, when drilling failed to identify any such extension. A single stratigraphic hole (PL001) was drilled at Parting Lake to test for potential base metal / stanniferous replacement deposits above a gravity defined granite cupola, however the hole failed to intersect significant carbonates.

In 1992 the northern half of the EL (which included the overlap with EL 15/2007) was relinquished. Work on the remaining tenure included a down-hole SIROTEM survey of DDH SY016 and a feasibility study of the Sylvester Prospect was undertaken. In 1994 joint venture partners were sought, unsuccessfully, and in 1995 the remainder of the EL was relinquished.

During the early 1990's, **Cavenridge Pty Ltd** carried out an exploration programme in the Mt Heemskirk area on **EL 23/1990**, which was subsequently expanded toward the west coast to become **EL 29/1992**. The top NE corner of these EL's was coincident with EL 15/2007. Their target was the mineralized Devonian-Carboniferous Heemskirk Granite for dimension stone as well as tin and base metal potential. A detailed review of previous exploration and results was undertaken, together with some field reconnaissance, and based on favourable projections, recommendations for future work programmes were proposed. It appears from subsequent reports, however, that no further investigations eventuated, and the EL was relinquished around 1995.

Located to the NE of EL 15/2007, **Bruce Resources NL** commenced exploration over **EL 12/1994** during 1995. Overlap with the present day EL 15/2007 is confined to a very small corner in the top NE section. Again, work comprised a detailed literature

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search and assessment of past exploration, with interest primarily focused on chromite, gold, osmiridium, platinumoids and tin. The ultramafic rocks were regarded as being highly prospective for platinumoids, gold and chromite while the Mt Lindsay tin skarn was considered indicative for the area to host granite related mineralization. Despite optimistic projections for the area's potential, it appears that no further investigations proceeded and the tenure was relinquished in 1995.

Following the granting of **EL 43/1994** to Joint Venture partners **Goldstream Mining NL and Titan Resources NL** in February 1995, an extensive exploration programme was commenced. This tenement was located to the NW of EL 15/2007, and again the area of overlap is extremely small compared to the overall size of the EL. The primary target was Proterozoic iron formation-hosted lode gold. Work undertaken prior to 1999 included stream sediment sampling and an aeromagnetic survey of the entire licence, which highlighted three areas of interest; Lefroy Ridge East and known historical workings at Rocky River and Lucy Spur. The prospects were followed up with detailed stream sediment sampling, soil sampling and diamond drilling. A total of eight cored drill holes were completed over the three prospects, however with only low order gold anomalies identified, no further work was undertaken. In late 1999 approximately half of the EL (NW portion) was relinquished. In 2002 an airborne heli-EM survey was flown in conjunction with Mineral Resources Tasmania (MRT), targeting Cu-Zn bearing massive sulphides associated with the Savage River magnetite deposits. Follow-up investigations failed to identify any further areas of interest, and after extensive testing of all anomalies showed no economic mineralization, the remainder of the EL was relinquished in 2002.

Goldstream Mining also held several other tenements to the north and east of EL 43/1994 during the 1990's and beyond. In closest proximity to EL 15/2007 were EL 42/1996 and EL 22/1998, to the immediate north, however neither of these were coincident, and consequently have not been included in this review.

**EL 18/2002** which is located to the NE of EL 15/2007, was granted to **Adamus Resources Ltd** in 2002. Their principal target focused on primary nickel, platinumoid and gold mineralization. As can be seen in the EL Map for 2003 in Appendix 1, overlap occurred in the NE corner of EL 15/2007. Following a review of historic exploration data and publicly available aeromagnetic data, Adamus carried out a stream sediment sampling programme from drainages to the west of Serpentine Ridge. All samples were analysed for low-level Au, Pt and Pd, and Cr, Cu, Ni and S. A review of these results led Adamus to identify some areas within the tenement as non-prospective, and a total area of some 40 sq km was identified for release in 2004. Included in this relinquished zone was the overlap portion with EL 15/2007. Adamus continue to have tenure for the remaining areas of the EL.

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## 6. Exploration Conducted

Exploration during the reporting period comprised geological traverses along the stream valleys flowing north and south into Lake Pieman. Exploration was conducted on foot in rugged terrain with no access tracks or lines initiated. A total of 287 stream sediment samples were collected and 30 rock samples. Geological observations were made at a total of 51 sites. Geochemical results from this work had not been received at the time of writing this report.

### 6.1 Geological Reconnaissance

During reconnaissance a silicified ferruginous zone of inter-bedded red cherty mudstone and haematite was recognised. Strike of the sediments is dominantly NW with a dip of 40°—80° to the NE. The zone is traceable for over 1km with additional outcrops toward the south west.

Ferruginisation is dominantly haematite with strong silicification. The central point of this zone locates at coordinates (361960, 5379692). The ferruginisation is developed as lumps and is not distributed uniformly. At each survey site, 1-3 layers of massive haematite with 0.5-14m in width is typical. The iron content is around 50% by observation. (photos 3 and 4)

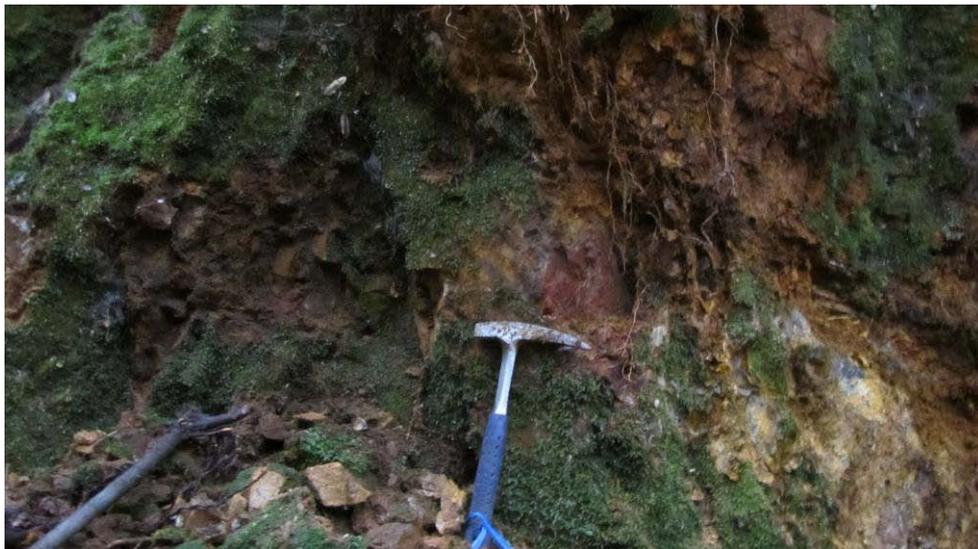


**Photo 3: Typical Haematite Alteration**



**Photo: 4 Outcrop of Haematite**

On both contacts of the massive haematite there are associated zones of silicification and haematisation. The lumpy ferromanganese can be seen in part. The haematite in the silicified rock are distributed as densely to sparse round – spherulitic oval masses (photo 5). The haematite content is around 20-30% by observation. In the spherulitic haematite, pyrite occurs occasionally. The altered belt has a width of up to 20m.



**Photo 5: Haematisation in the siliceous rock**

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**Occurrence No.1: Silicified ferruginous, pyrite and chalcopyrite site**

This site is at the south side of the northeast part of the working area. It is controlled by D0034 geological point (364636, 5375374). The ferruginisation is tan and brown in colour. The most ferruginous zones exhibit a honeycomb texture. Zones of silicification and pyrite are irregular and massive in occurrence. Chalcopyrite occurs in granular masses (photo 6). The mineralized outcrop is 2-3m in width and is traceable for 25m. The mineralisation is bounded by silicified, carbonaceous mudstone. Quartz occurs as a network of veinlets of 1-3mm in width. The altered zone strikes NE 70° with dips uncertain.



**Photo 6: Silicification with pyrite and chalcopyrite**

**Occurrence No.2: Silicified ferruginous zone**

This occurrence locates at the north east of the working area, controlled by D001 geological point (361880, 5379845). The mineralization is developed in grey white mudstone on either side of the contact with a diabase dyke. The strike of this zone is 138°, dip angle is 68° extent with a width of 5m on the southern contact and 2m on the northern side of the dyke. The strike extent of this zone is uncertain.

**Occurrence No.3: Silicification and ferruginisation.**

This occurrence of silicification and ferruginisation (photo 7) is at east of the working area. It is controlled by D0501 geological point (365878, 5377683). The host rock is granite and the zone is 3m in width and 5m in length. The strike of the zone is 48° and dip angle 56°. Ferruginisation occurs as network veins and as irregular masses. Ferruginous veins are 1mm in width and occur with quartz veins to 5cm in width. Ferruginisation is developed strongly on the margins of the quartz veins.



**Photo 7: Silicified limonitic zone**

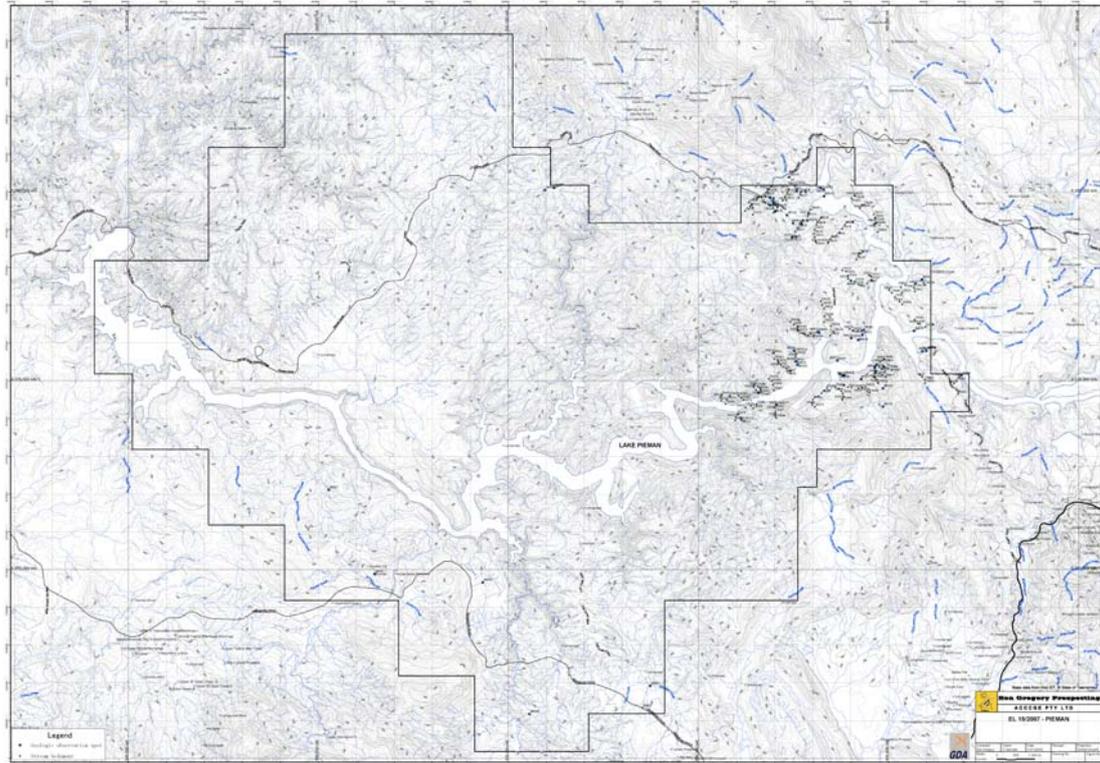
#### **Occurrence No.4: Silicified and phlogopite altered site**

This occurrence locates at the east-central part of the working area. It is controlled by D0511, 0512 geological points (361463, 5374888) and is over 300m in length. The altered zone occurs in black carbonaceous mudstone. Silicification is strong with zones of quartz veining of 1-5mm in width. The phlogopite occurs as dense disseminations of 0.1-1mm in width.

### **6.2 Stream Sediment Sampling**

Stream sediment sampling was undertaken in the northeast of the tenement area, selected on the basis of geology and CCG's geological reconnaissance results. A total of 287 samples were collected over an area of 26km<sup>2</sup> on a density of approximately 12 samples per km<sup>2</sup>. Samples were mostly from first order streams. Samples were collected as -16 mesh with a minimum weight of 150g. Analytical results were awaited at the time of writing this report. Sample locations are shown on in Figure 3.1 and the sampling data base is presented at Appendix 1.

**Samples distribution map of EL15/2007**  
SCALE 1:25000



**Figure 4: Geochemical sampling distribution map**

## 7. Environmental Considerations

All exploration was conducted by foot during the period of reporting. Consequently no track or other access involving clearing or disturbance was undertaken and no rehabilitation was necessary.

## 8. Forward Programme

The future exploration programme will partly depend on the results of both the stream sediment sampling programme and the results of the rock geochemistry. However the zone of limonite and hematite formation warrants further geological reconnaissance particularly with the discovery of copper mineralisation associated with the hematite at the No.1 prospect. Further sampling and trenching is planned in addition to soil geochemistry leading to possible drill target selection.

It is planned to follow up anomalous stream sediment samples with closer spaced sampling and geological reconnaissance and rock chip sampling where appropriate. Well defined anomalies and obvious areas of mineralisation will be subjected to grid soil geochemistry.

## **Appendix 1**

### **Stream Sediment Database**

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**Appendix 1**

| <b>No.</b> | <b>Location of the Sampling Point</b> | <b>X</b> | <b>Y</b> | <b>Sampling Medium</b> | <b>Description of the Surrounding Lithology</b> | <b>Date of Sampling</b> | <b>Sampling Person</b> | <b>Remarks</b> |
|------------|---------------------------------------|----------|----------|------------------------|---|-------------------------|------------------------|----------------|
| C0001      |                                       | 358519   | 5366339  | stream sediment        |   | 2011.4.15.              |                        |                |
| C0002      |                                       | 366822   | 5374651  | stream sediment        |   | 2011.4.16.              |                        |                |
| C0003      |                                       | 362573   | 5380046  | stream sediment        | brownish-red mudstone                           |                         |                        |                |
| C0004      |                                       | 363285   | 5380069  | stream sediment        | yellowish-brown mudstone                        |                         |                        |                |
| C0006      |                                       | 364018   | 5376131  | stream sediment        |   |                         |                        |                |
| C0007      |                                       | 363654   | 5375535  | stream sediment        | crusty limonite                                 |                         |                        |                |
| C0008      |                                       | 363166   | 5376277  | stream sediment        |   |                         |                        |                |
| C0009      |                                       | 363143   | 5376299  | stream sediment        |   |                         |                        |                |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                 | Date of Sampling | Sampling Person                       | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---------------------------------------|---------|
| C0010 |                                | 364652 | 5375256 | stream sediment |  |                  |                                       |         |
| C0011 |                                | 364634 | 5375338 | stream sediment |  |                  |                                       |         |
| C0012 | around the mouth of the trench | 365323 | 5377474 | stream sediment | no outcrop around the point, only found mudstone floater | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0013 | around the mouth of the trench | 365444 | 5377533 | stream sediment | no outcrop around the point                              | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0014 | around the mouth of the trench | 365716 | 5377573 | stream sediment | no outcrop around the point                              | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0015 | around the trench              | 365690 | 5377560 | stream sediment | no outcrop around the point                              | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0016 | around the trench              | 365666 | 5377448 | stream sediment | found black and grey white mudstone along the gully      | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG     |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology  | Date of Sampling | Sampling Person                       | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|---------------------------------------|---------|
|       |                                |        |         |                 |   |                  | Wei                                   |         |
| C0017 | around the trench              | 365686 | 5377367 | stream sediment | found black and grey white mudstone and yellow siltstone along the gully  | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0018 | around the trench              | 365884 | 5377673 | stream sediment | no outcrop around the point   | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0019 | around the trench              | 365919 | 5377587 | stream sediment | found black mudstone along the gully  | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0020 | around the trench              | 365961 | 5377540 | stream sediment | found black argillaceous siltstone and yellow mudstone along the gully; have outcrop with medium hardness after water erosion | 2011.4.28.       | ZHANG Jiansheng, ZHANG Zhao, YANG Wei |         |
| C0021 | around the mouth of the trench | 365353 | 5377335 | stream sediment | stream sampling; no outcrop around the point  | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei       |         |
| C0022 | around the mouth of the trench | 364279 | 5376324 | stream sediment | stream sampling; have outcrop around; black siltstone and yellow mudstone   | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei       |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                                      | Date of Sampling | Sampling Person                   | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|-----------------------------------|---------|
| C0023 | around the trench              | 364191 | 5376326 | stream sediment | no outcrop around the point; black argillaceous siltstone and yellow mudstone | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei   |         |
| C0024 | around the trench              | 364080 | 5376328 | stream sediment | heavy overburden layer; no outcrop  | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei   |         |
| C0025 | around the trench              | 363973 | 5376367 | stream sediment | found black argillaceous siltstone and yellow mudstone along the stream       | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei   |         |
| C0026 | around the trench              | 364047 | 5376326 | stream sediment | heavy overburden layer; no outcrop  | 2011.4.29.       | ZHANG Zhao, WANG Chen, YANG Wei   |         |
| C0027 | within the trench              | 361828 | 5380067 | stream sediment | yellow mudstone   | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0028 | within the trench              | 361820 | 5379991 | stream sediment | black and yellow mudstone   | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0029 | within the trench              | 361750 | 5379902 | stream sediment | black and yellow mudstone   | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0030 | trench intersection            | 361662 | 5379867 | stream          | black and yellow mudstone   | 2011.5.2.        | ZHANG Wanyi,                      |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                   | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|-----------------------------------|---------|
|       |                                |        |         | sediment        |  |                  | ZHANG Zhao, YANG Wei              |         |
| C0031 | at the mouth of the trench     | 361657 | 5379859 | stream sediment | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0032 | at the mouth of the trench     | 361664 | 5379864 | stream sediment | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0033 | within the trench              | 361704 | 5379779 | stream sediment | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0034 | trench intersection            | 361745 | 5379713 | stream sediment | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0035 | trench intersection            | 361748 | 5379718 | stream sediment | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG Wei |         |
| C0036 | trench intersection            | 361750 | 5379718 | stream          | black and yellow mudstone                | 2011.5.2.        | ZHANG Wanyi, ZHANG Zhao, YANG     |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                | Date of Sampling | Sampling Person                        | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|--|---------|
|       |                                |        |         | sediment        |   |                  | Wei                                    |         |
| C0037 | within the trench              | 361826 | 5379672 | stream sediment | grey white mudstone                                     | 2011.5.2.        | ZHANG Wanyi,<br>ZHANG Zhao, YANG Wei   |         |
| C0038 | within the trench              | 362077 | 5379593 | stream sediment | grey white mudstone                                     | 2011.5.2.        | ZHANG Wanyi,<br>ZHANG Zhao, YANG Wei   |         |
| C0039 | within the trench              | 362043 | 5379502 | stream sediment | grey white mudstone                                     | 2011.5.2.        | ZHANG Wanyi,<br>ZHANG Zhao, YANG Wei   |         |
| C0040 | within the trench              | 361971 | 5379450 | stream sediment | grey white mudstone                                     | 2011.5.2.        | ZHANG Wanyi,<br>ZHANG Zhao, YANG Wei   |         |
| C0041 | at the mouth of the trench     | 362602 | 5375425 | stream sediment | black shale in the north, quartz sandstone in the south | 2011.5.3.        | ZHANG Wanyi,<br>ZHANG Zhao, WEI Dequan |         |
| C0042 | within the trench              | 362537 | 5375512 | stream sediment | siltstone   | 2011.5.3.        | ZHANG Wanyi,<br>ZHANG Zhao, WEI        |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                        | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--|---------|
|       |                                |        |         |                 |  |                  | Dequan                                 |         |
| C0043 | within the trench              | 362551 | 5375643 | stream sediment | yellow siltstone                         | 2011.5.3.        | ZHANG Wanyi,<br>ZHANG Zhao, WEI Dequan |         |
| C0044 | within the trench              | 362571 | 5375710 | stream sediment | yellow mudstone, siltstone               | 2011.5.3.        | ZHANG Wanyi,<br>ZHANG Zhao, WEI Dequan |         |
| C0045 | within the trench              | 362531 | 5375779 | stream sediment | grey white mudstone                      | 2011.5.3.        | ZHANG Wanyi,<br>ZHANG Zhao, WEI Dequan |         |
| C0046 | at the mouth of the trench     | 365826 | 5375164 | stream sediment | greyish black siltstone                  | 2011.5.10.       | ZHANG Jiansheng,ZHANG Zhao, WEI Dequan |         |
| C0047 | at the mouth of the trench     | 365883 | 5375114 | stream sediment | greyish black siltstone                  | 2011.5.10.       | ZHANG Jiansheng,ZHANG Zhao, WEI Dequan |         |
| C0048 | within the trench              | 365948 | 5375028 | stream sediment | black argillaceous siltstone             | 2011.5.10.       | ZHANG Jiansheng,<br>ZHANG Zhao, WEI    |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology  | Date of Sampling | Sampling Person                               | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|---|---------|
|       |                                |        |         |                 |   |                  | Dequan  |         |
| C0049 | within the trench              | 365955 | 5374939 | stream sediment | black argillaceous siltstone  | 2011.5.10.       | ZHANG Jiansheng,<br>ZHANG Zhao, WEI<br>Dequan |         |
| C0051 | at the mouth of the trench     | 360594 | 5374481 | stream sediment | grey white sandstone  | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0052 | within the trench              | 360580 | 5374577 | stream sediment | grey white sandstone; found quartz vein   | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0053 | within the trench              | 360614 | 5374623 | stream sediment | grey white sandstone; found quartz vein   | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0054 | within the trench              | 360742 | 5374500 | stream sediment | yellow and black mudstone   | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0055 | within the trench              | 360823 | 5374603 | stream sediment | yellow and black mudstone   | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0056 | at the mouth of the trench     | 360708 | 5374390 | stream sediment | yellow and black mudstone   | 2011.5.17        | ZHANG Zhao, YANG<br>Wei                       |         |
| C0057 | at the mouth of the            | 361241 | 5374290 | stream          | no outcrop around the point; found grey white sandstone and fine quartz vein in the | 2011.5.18        | ZHANG Zhao, YANG                              |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology   | Date of Sampling | Sampling Person                  | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------------------|---------|
|       | trench                         |        |         | sediment        | trench   |                  | Wei                              |         |
| C0058 | at the mouth of the trench     | 361376 | 5374335 | stream sediment | found grey white sandstone and fine quartz vein in the trench                          | 2011.5.18        | ZHANG Zhao, YANG Wei             |         |
| C0059 | within the trench              | 361437 | 5374271 | stream sediment | no outcrop around the point  | 2011.5.18        | ZHANG Zhao, YANG Wei             |         |
| C0060 | within the trench              | 361425 | 537400  | stream sediment | found grey white sandstone and fine quartz vein in the trench                          | 2011.5.18        | ZHANG Zhao, YANG Wei             |         |
| C0061 | at the mouth of the trench     | 363383 | 5374804 | stream sediment | no outcrop around the point  | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0062 | within the trench              | 363300 | 5374737 | stream sediment | no outcrop around the point; found black, yellow and grey white mudstone in the trench | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0063 | within the trench              | 363232 | 5374672 | stream sediment | no outcrop around the point  | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0064 | within the trench              | 363152 | 5374593 | stream sediment | no outcrop around the point  | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0065 | within the trench              | 363060 | 5374574 | stream          | no outcrop around the point  | 2011.5.20        | ZHANG Zhao, YANG                 |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology         | Date of Sampling | Sampling Person                  | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------------------|---------|
|       |                                |        |         | sediment        |  |                  | Wei, HAN Zhihua                  |         |
| C0066 | trench intersection            | 363012 | 5374505 | stream sediment | no outcrop around the point                      | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0067 | trench intersection            | 362997 | 5374421 | stream sediment | no outcrop around the point                      | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0068 | trench intersection            | 362997 | 5374422 | stream sediment | no outcrop around the point                      | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0069 | within the trench              | 362992 | 5374369 | stream sediment | no outcrop around the point                      | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0070 | within the trench              | 363055 | 5374310 | stream sediment | no outcrop around the point                      | 2011.5.20        | ZHANG Zhao, YANG Wei, HAN Zhihua |         |
| C0071 | at the mouth of the trench     | 363828 | 5374880 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei             |         |
| C0072 | within the trench              | 363931 | 5374833 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei             |         |
| C0073 | within the trench              | 364023 | 5374818 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei             |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology         | Date of Sampling | Sampling Person      | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------|---------|
| C0074 | within the trench              | 264109 | 5374767 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0075 | within the trench              | 364208 | 5374798 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0076 | trench intersection            | 364291 | 5374814 | stream sediment | found black mudstone and siltstone in the trench | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0077 | trench intersection            | 364303 | 5374811 | stream sediment | found plenty of red and yellow mud               | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0078 | within the trench              | 364380 | 5374837 | stream sediment | found grey white sandstone in the trench         | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0079 | within the trench              | 364434 | 5374719 | stream sediment | grey white quartz sandstone, yellow sandstone    | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0080 | within the trench              | 364496 | 5374684 | stream sediment | grey white quartz sandstone, yellow sandstone    | 2011.5.24        | ZHANG Zhao, YANG Wei |         |
| C0081 | at the mouth of the trench     | 364692 | 5375446 | stream sediment | no outcrop around the point                      | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0082 | within the trench              | 364775 | 5375494 | stream          | no outcrop around the point                      | 2011.5.26        | ZHANG Zhao, YANG     |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person      | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------|---------|
|       |                                |        |         | sediment        |  |                  | Wei                  |         |
| C0083 | within the trench              | 364835 | 5375543 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0084 | trench intersection            | 364876 | 5375569 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0085 | trench intersection            | 364887 | 5375571 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0086 | trench intersection            | 364880 | 5375579 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0087 | within the trench              | 365076 | 5375294 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0088 | within the trench              | 364996 | 5375320 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0089 | within the trench              | 364894 | 5375348 | stream sediment | found black siltstone in the trench      | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0090 | trench intersection            | 364824 | 5375308 | stream sediment | no outcrop around the point              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                 | Date of Sampling | Sampling Person      | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------|---------|
| C0091 | trench intersection            | 364826 | 5375310 | stream sediment | no outcrop around the point                              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0092 | trench intersection            | 364818 | 5375313 | stream sediment | no outcrop around the point                              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0093 | within the trench              | 364747 | 5375370 | stream sediment | no outcrop around the point                              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0094 | within the trench              | 364679 | 5375412 | stream sediment | no outcrop around the point                              | 2011.5.26        | ZHANG Zhao, YANG Wei |         |
| C0095 | at the mouth of the trench     | 364713 | 5378935 | stream sediment | yellow mudstone; it is drying in the trench              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0096 | at the mouth of the trench     | 364616 | 5379151 | stream sediment | yellow mudstone  | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0097 | trench intersection            | 364663 | 5379171 | stream sediment | mudstone; black weathering surface, yellow fresh surface | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0098 | trench intersection            | 364675 | 5379190 | stream sediment | no outcrop around the point                              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0099 | trench intersection            | 364665 | 5379194 | stream          | found black mudstone in the trench                       | 2011.5.30        | ZHANG Zhao, YANG     |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person      | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------|---------|
|       |                                |        |         | sediment        |  |                  | Wei                  |         |
| C0100 | trench intersection            | 364651 | 5379319 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0101 | trench intersection            | 364637 | 5379312 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0102 | trench intersection            | 264640 | 5379336 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0103 | trench intersection            | 364609 | 5379405 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0104 | at the mouth of the trench     | 364241 | 5379568 | stream sediment | found black mudstone in the trench       | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0105 | within the trench              | 364298 | 5379658 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0106 | within the trench              | 364352 | 5379663 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |
| C0107 | at the mouth of the trench     | 364027 | 5379829 | stream sediment | no outcrop around the point              | 2011.5.30        | ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                             | Date of Sampling | Sampling Person                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|------------------------------------|---------|
| C0108 | trench intersection            | 364118 | 5379902 | stream sediment | found black mudstone and siltstone in the trench                     | 2011.5.30        | ZHANG Zhao, YANG Wei               |         |
| C0109 | trench intersection            | 364112 | 5379909 | stream sediment | no outcrop around the point  | 2011.5.30        | ZHANG Zhao, YANG Wei               |         |
| C0110 | trench intersection            | 364090 | 5379901 | stream sediment | no outcrop around the point  | 2011.5.30        | ZHANG Zhao, YANG Wei               |         |
| C0111 | at the mouth of the trench     | 362944 | 5379535 | stream sediment | found quartz sandstone in the trench                                 | 2011.5.31        | SONG Shaowei, ZHANG Zhao, YANG Wei |         |
| C0112 | within the trench              | 362895 | 5379442 | stream sediment | found quartz sandstone in the trench                                 | 2011.5.31        | SONG Shaowei, ZHANG Zhao, YANG Wei |         |
| C0113 | trench intersection            | 362883 | 5379406 | stream sediment | no outcrop around the point  | 2011.5.31        | SONG Shaowei, ZHANG Zhao, YANG Wei |         |
| C0114 | trench intersection            | 362871 | 5379358 | stream sediment | found siliceous mudstone and feldspar quartz sandstone in the trench | 2011.5.31        | SONG Shaowei, ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                       | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---------------------------------------|---------|
| C0115 | within the trench              | 362860 | 5379255 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0116 | within the trench              | 362746 | 5379260 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0117 | trench intersection            | 362711 | 5379209 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0118 | trench intersection            | 362712 | 5379198 | stream sediment | no outcrop around the point              | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0119 | within the trench              | 362664 | 5379172 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0120 | within the trench              | 362616 | 5379060 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                       | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---------------------------------------|---------|
| C0121 | within the trench              | 362544 | 5378946 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0122 | trench intersection            | 362484 | 5378823 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0123 | trench intersection            | 362468 | 5378798 | stream sediment | no outcrop around the point              | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0124 | trench intersection            | 362462 | 5378804 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0125 | trench intersection            | 362448 | 5378803 | stream sediment | no outcrop around the point              | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0126 | trench intersection            | 362445 | 5378775 | stream sediment | found quartz sandstone in the trench     | 2011.5.31        | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                       | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---------------------------------------|---------|
| C0127 | at the mouth of the trench     | 364321 | 5378415 | stream sediment | volcaniclastic rock? diabase?            | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0128 | trench intersection            | 364267 | 5378370 | stream sediment | volcaniclastic rock? diabase?            | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0129 | trench intersection            | 364259 | 5378371 | stream sediment | volcaniclastic rock? diabase?            | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0130 | trench intersection            | 364205 | 5378310 | stream sediment | volcaniclastic rock? diabase?            | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0131 | within the trench              | 364152 | 5378211 | stream sediment | no outcrop around the point              | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |
| C0132 | within the trench              | 364220 | 5378381 | stream sediment | volcaniclastic rock? diabase?            | 2011.6.1         | SONG Shaowei,<br>ZHANG Zhao, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                     | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|-------------------------------------|---------|
| C0500 | around the mouth of the trench | 365019 | 5377403 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0501 | around the trench              | 365079 | 5377329 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0502 | around the trench              | 365166 | 5377214 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0503 | around the trench              | 365281 | 5377094 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0504 | around the trench              | 365355 | 5377025 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0505 | around the trench              | 365685 | 5376618 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0506 | around the trench              | 365766 | 5376512 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0507 | around the trench              | 365811 | 5376515 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN Zhihua, WEI Dequan |         |
| C0508 | around the mouth of            | 365967 | 5376427 | stream          | argillaceous siltstone and mudstone      | 2011.4.28.       | ZHANG Wanyi, HAN                    |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|------------------------------------|---------|
|       | the trench                     |        |         | sediment        |  |                  | Zihua, WEI Dequan                  |         |
| C0509 | around the mouth of the trench | 364550 | 5377650 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0510 | south of the intersection      | 364566 | 5377656 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0511 | around the trench              | 364522 | 5377770 | stream sediment | argillaceous siltstone and mudstone      | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0512 | around the trench              | 364480 | 5377799 | stream sediment | sandstone                                | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0513 | intersection                   | 364532 | 5377768 | stream sediment | sandstone                                | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0514 | around the trench              | 364549 | 5377669 | stream sediment | sandstone                                | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0515 | around the trench              | 364438 | 5377584 | stream sediment | sandstone                                | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |
| C0516 | around the trench              | 364277 | 5377540 | stream sediment | sandstone                                | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology           | Date of Sampling | Sampling Person                                   | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---|---------|
| C0517 | around the trench              | 364207 | 5377545 | stream sediment | sandstone  | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0518 | trench intersection            | 364106 | 5377631 | stream sediment | sandstone; plenty of limonite floater              | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0519 | trench intersection            | 364104 | 5377631 | stream sediment | sandstone; plenty of limonite floater              | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0520 | trench intersection            | 363940 | 5377707 | stream sediment | sandstone  | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0521 | around the trench              | 363929 | 5377776 | stream sediment | sandstone  | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0522 | around the trench              | 363876 | 5377903 | stream sediment | sandstone  | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0523 | around the trench              | 363779 | 5377922 | stream sediment | sandstone; found limonitized floater at the source | 2011.4.29.       | ZHANG Wanyi, HAN Zihua, WEI Dequan                |         |
| C0524 | around the trench              | 361595 | 5379863 | stream sediment | siltstone, mudstone                                | 2011.5.2         | ZHANG Jiansheng, HAN Zihua, WANG Chen, WEI Dequan |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                     | Date of Sampling | Sampling Person                                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--|---------|
| C0525 | trench intersection            | 361556 | 5379865 | stream sediment | siltstone, mudstone  | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0526 | around the trench              | 361536 | 5379827 | stream sediment | grey white mudstone; laminated structure; occurrence 28°<83° | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0527 | trench intersection            | 361445 | 5379816 | stream sediment | siltstone, mudstone  | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0528 | around the trench              | 361325 | 5379725 | stream sediment | siltstone, mudstone  | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0529 | around the trench              | 361398 | 5379676 | stream sediment | siltstone, mudstone  | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0530 | trench intersection            | 361394 | 5379648 | stream sediment | siltstone, mudstone  | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--|---------|
| C0531 | around the trench              | 361420 | 5379590 | stream sediment | siltstone, mudstone                      | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0532 | around the trench              | 361428 | 5379400 | stream sediment | siltstone, mudstone                      | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0533 | around the trench              | 361225 | 5379500 | stream sediment | siltstone, mudstone                      | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0534 | around the trench              | 361354 | 5379622 | stream sediment | siltstone, mudstone                      | 2011.5.2         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0535 | around the mouth of the trench | 362421 | 5375259 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua                     |         |
| C0536 | around the trench              | 362331 | 5375251 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua                     |         |
| C0537 | around the trench              | 362309 | 5375323 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua                     |         |

| No.   | Location of the Sampling Point   | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                | Remarks |
|-------|----------------------------------|--------|---------|-----------------|--|------------------|--------------------------------|---------|
| C0538 | around the trench                | 362157 | 5375421 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0539 | trench intersection              | 362109 | 5375460 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0540 | south of the trench intersection | 362097 | 5375501 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0541 | north of the trench intersection | 362098 | 5375503 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0542 | trench intersection              | 362078 | 5375550 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0543 | trench intersection              | 362000 | 5375574 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0544 | west of the trench intersection  | 361980 | 5375750 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0545 | east of the trench intersection  | 361950 | 5375725 | stream sediment | siltstone, mudstone                      | 2011.5.3         | YANG Wei, ZHAO Yan, HAN Zhihua |         |
| C0546 | around the mouth of              | 363032 | 5376204 | stream          | greyish black sandstone and yellow       | 2011.5.5         | WEI Dequan, HAN                |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology   | Date of Sampling | Sampling Person                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|------------------------------------|---------|
|       | the trench                     |        |         | sediment        | mudstone   |                  | Zhijia, ZHANG Zhao                 |         |
| C0547 | around the trench              | 362952 | 5376244 | stream sediment | greyish black sandstone and yellow mudstone; found interbedded floater and siltstone | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |
| C0548 | around the trench              | 362879 | 5376211 | stream sediment | greyish black sandstone and yellow mudstone; found interbedded floater and siltstone | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |
| C0549 | around the trench              | 362805 | 5376219 | stream sediment | greyish black sandstone and yellow mudstone; found interbedded floater and siltstone | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |
| C0550 | around the trench              | 362762 | 5376252 | stream sediment | greyish black sandstone and yellow mudstone; found interbedded floater and siltstone | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |
| C0551 | trench intersection            | 362600 | 5376375 | stream sediment | greyish black sandstone and yellow mudstone; found interbedded floater and siltstone | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |
| C0552 | trench intersection            | 362600 | 5376325 | stream sediment | greyish black sandstone and yellow mudstone; found fine quartz vein in the           | 2011.5.5         | WEI Dequan, HAN Zhijia, ZHANG Zhao |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                   | Date of Sampling | Sampling Person                    | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|------------------------------------|---------|
|       |                                |        |         |                 | floater  |                  |                                    |         |
| C0553 | trench intersection            | 362630 | 5376330 | stream sediment | greyish black sandstone and yellow mudstone                | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0554 | trench intersection            | 362613 | 5376430 | stream sediment | greyish black sandstone and yellow mudstone                | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0555 | trench intersection            | 362603 | 5376437 | stream sediment | greyish black sandstone and yellow mudstone                | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0556 | trench intersection            | 362602 | 5376444 | stream sediment | greyish black sandstone and yellow mudstone                | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0557 | around the trench              | 362503 | 5376493 | stream sediment | found yellow sandstone in the trench; poor gravel rounding | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0558 | around the trench              | 362411 | 5376560 | stream sediment | found yellow sandstone in the trench; poor gravel rounding | 2011.5.5         | WEI Dequan, HAN Zhihua, ZHANG Zhao |         |
| C0559 | around the mouth of the trench | 361565 | 5374691 | stream sediment | black mudstone, yellow sandstone; found fine quartz vein   | 2011.5.6         | YANG Wei, HAN Zhihua, ZHANG Zhao   |         |
| C0560 | around the trench              | 361510 | 5374756 | stream sediment | black mudstone, yellow sandstone; found fine quartz vein   | 2011.5.6         | YANG Wei, HAN Zhihua, ZHANG Zhao   |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology  | Date of Sampling | Sampling Person   | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|---|---------|
| C0561 | around the trench              | 361451 | 5374830 | stream sediment | black mudstone, yellow sandstone; found fine quartz vein  | 2011.5.6         | YANG Wei, HAN Zihua, ZHANG Zhao                             |         |
| C0562 | around the trench              | 361463 | 5374888 | stream sediment | black mudstone, yellow sandstone  | 2011.5.6         | YANG Wei, HAN Zihua, ZHANG Zhao                             |         |
| C0563 | around the mouth of the trench | 366715 | 5374920 | stream sediment | mudstone, sandstone   | 2011.5.7         | ZHANG Jiansheng, HAN Zihua, WANG Chen, WEI Dequan, YANG Wei |         |
| C0564 | around the trench              | 366785 | 5375000 | stream sediment | found plenty of diabase floater in the trench with star-like-distributed pyrite; particle mainly < 1mm. Greyish green fresh surface, shaped particle, mineral particle < 1mm; found a small amount of blue green mudstone | 2011.5.7         | ZHANG Jiansheng, HAN Zihua, WANG Chen, WEI Dequan, YANG Wei |         |
| C0565 | around the trench              | 366860 | 5375100 | stream sediment | mudstone, sandstone   | 2011.5.7         | ZHANG Jiansheng, HAN Zihua, WANG Chen, WEI Dequan, YANG Wei |         |

| No.   | Location of the Sampling Point                              | X      | Y       | Sampling Medium | Description of the Surrounding Lithology  | Date of Sampling | Sampling Person  | Remarks |
|-------|---|--------|---------|-----------------|---|------------------|--|---------|
| C0566 | at the intersection of the mouth of the trench and the lake | 366914 | 5375150 | stream sediment | West of the point: found gray purple mudstone around with tiny fine quartz vein; from point 0565 to this point, found greyish green and gray purple volcanoclastic rock and occasionally purple debris and crystal fragment in the gully along the way; found fine green mudstone vein with a width of 0.1mm, most of which have been weathered into limonite; found fine pyrite vein and spotted hematite. East of the point: steel gray siltstone with star-like pyrite and fine pyrite vein with particle < 1mm; the width of the vein is 0.1mm. The occurrence of purple mudstone: 55°<70°. | 2011.5.7         | ZHANG Jiansheng, HAN Zhihua, WANG Chen, WEI Dequan, YANG Wei |         |
| C0567 | around the mouth of the trench                              | 361979 | 5374747 | stream sediment | boulder conglomerate, cobble conglomerate, fine grain sandstone   | 2011.5.10        | YANG Wei, HAN Zhihua, WANG Chen                              |         |
| C0568 | within the trench   | 361954 | 5374893 | stream sediment | boulder conglomerate, cobble conglomerate, fine grain sandstone with quartz limonitization in the conglomerate  | 2011.5.10        | YANG Wei, HAN Zhihua, WANG Chen                              |         |
| C0569 | within the trench   | 361925 | 5375000 | stream sediment | boulder conglomerate, cobble conglomerate, fine grain sandstone   | 2011.5.10        | YANG Wei, HAN Zhihua, WANG Chen                              |         |

| No.   | Location of the Sampling Point  | X      | Y       | Sampling Medium | Description of the Surrounding Lithology                        | Date of Sampling | Sampling Person                  | Remarks |
|-------|---------------------------------|--------|---------|-----------------|---|------------------|----------------------------------|---------|
| C0570 | within the trench               | 361852 | 5375054 | stream sediment | boulder conglomerate, cobble conglomerate, fine grain sandstone | 2011.5.10        | YANG Wei, HAN Zihua, WANG Chen   |         |
| C0571 | at the mouth of the trench      | 361046 | 5374116 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0572 | trench intersection             | 361100 | 5374026 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0573 | around the trench intersection  | 361126 | 5374000 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0574 | west of the trench intersection | 361125 | 5373955 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0575 | east of the trench intersection | 361200 | 5373950 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0576 | at the mouth of the trench      | 361002 | 5374099 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0577 | within the trench               | 360973 | 5374034 | stream sediment | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN Zihua, WANG Chen |         |
| C0578 | within the trench               | 360963 | 5373955 | stream          | sandstone and conglomerate                                      | 2011.5.17        | WEI Dequan, HAN                  |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--------------------------------|---------|
|       |                                |        |         | sediment        |  |                  | Zihua, WANG Chen               |         |
| C0579 | at the mouth of the trench     | 361175 | 5374497 | stream sediment | conglomerate; found fine quartz vein     | 2011.5.18        | HAN Zihua, WANG Chen           |         |
| C0580 | within the trench              | 361118 | 5374551 | stream sediment | conglomerate; found fine quartz vein     | 2011.5.18        | HAN Zihua, WANG Chen           |         |
| C0581 | at the mouth of the trench     | 361521 | 5374382 | stream sediment | conglomerate; found fine quartz vein     | 2011.5.18        | HAN Zihua, WANG Chen, YANG Wei |         |
| C0582 | within the trench              | 361052 | 5374603 | stream sediment | conglomerate; found fine quartz vein     | 2011.5.18        | HAN Zihua, WANG Chen           |         |
| C0583 | at the mouth of the trench     | 361650 | 5374705 | stream sediment | sandstone and conglomerate               | 2011.5.19        | HAN Zihua, WANG Chen, YANG Wei |         |
| C0584 | trench intersection            | 361637 | 5374748 | stream sediment | sandstone and conglomerate               | 2011.5.19        | HAN Zihua, WANG Chen, YANG Wei |         |
| C0585 | within the trench              | 361623 | 5374786 | stream sediment | sandstone and conglomerate               | 2011.5.19        | HAN Zihua, WANG Chen, YANG Wei |         |
| C0586 | within the trench              | 361594 | 5374829 | stream sediment | sandstone and conglomerate               | 2011.5.19        | HAN Zihua, WANG Chen, YANG Wei |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology     | Date of Sampling | Sampling Person                  | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------------------|---------|
| C0587 | within the trench              | 361552 | 5374853 | stream sediment | sandstone and conglomerate                   | 2011.5.19        | HAN Zhihua, WANG Chen, YANG Wei  |         |
| C0588 | at the mouth of the trench     | 363599 | 5374840 | stream sediment | sandstone and mudstone; found quartz floater | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0589 | within the trench              | 363689 | 5374790 | stream sediment | sandstone and mudstone; found quartz floater | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0590 | within the trench              | 363756 | 5374717 | stream sediment | mudstone and conglomerate                    | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0591 | within the trench              | 363790 | 5374660 | stream sediment | mudstone and conglomerate                    | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0592 | within the trench              | 363811 | 5374578 | stream sediment | mudstone, conglomerate and sandstone         | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0593 | within the trench              | 363777 | 5374521 | stream sediment | mudstone                                     | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0594 | within the trench              | 363781 | 5374494 | stream sediment | mudstone and sandstone                       | 2011.5.24        | HAN Zhihua, WANG Chen            |         |
| C0595 | at the mouth of the            | 362025 | 5374365 | stream          | sandstone and conglomerate                   | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology     | Date of Sampling | Sampling Person                             | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---|---------|
|       | trench                         |        |         | sediment        |  |                  | ZHANG Zhao                                  |         |
| C0596 | within the trench              | 362007 | 5374296 | stream sediment | sandstone and conglomerate                   | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0597 | within the trench              | 362018 | 5374175 | stream sediment | sandstone and conglomerate                   | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0598 | trench intersection            | 362016 | 5374105 | stream sediment | sandstone and conglomerate                   | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0599 | within the trench              | 362012 | 5374064 | stream sediment | grey white sandstone; found fine quartz vein | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0600 | within the trench              | 362042 | 5374020 | stream sediment | grey white sandstone; found fine quartz vein | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0601 | at the mouth of the trench     | 362057 | 5374362 | stream sediment | black and yellow sandstone                   | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei,            |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                             | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|---|---------|
|       |                                |        |         |                 |  |                  | ZHANG Zhao                                  |         |
| C0602 | within the trench              | 362065 | 5374358 | stream sediment | black and yellow sandstone               | 2011.5.25        | HAN Zhihua, WANG Chen, YANG Wei, ZHANG Zhao |         |
| C0603 | at the mouth of the trench     | 364632 | 5375358 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0604 | trench intersection            | 364650 | 5375254 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0605 | within the trench              | 364635 | 5375198 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0606 | trench intersection            | 364619 | 5375190 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0607 | trench intersection            | 364618 | 5375117 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0608 | within the trench              | 364612 | 5375094 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan           |         |
| C0609 | within the trench              | 364617 | 5375098 | stream          | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG                            |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                   | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|-----------------------------------|---------|
|       |                                |        |         | sediment        |  |                  | Chen, WEI Dequan                  |         |
| C0610 | within the trench              | 364652 | 5375075 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0611 | within the trench              | 364686 | 5375026 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0612 | within the trench              | 364714 | 5374947 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0613 | within the trench              | 364733 | 5374940 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0614 | within the trench              | 364678 | 5375207 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0615 | within the trench              | 364755 | 5375188 | stream sediment | sandstone, conglomerate and mudstone     | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0616 | within the trench              | 364831 | 5375165 | stream sediment | sandstone, conglomerate and mudstone     | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |
| C0617 | within the trench              | 364922 | 5375097 | stream sediment | sandstone and conglomerate               | 2011.5.26        | HAN Zhihua, WANG Chen, WEI Dequan |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person                            | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--|---------|
| C0618 | within the trench              | 362063 | 5379592 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0619 | within the trench              | 362091 | 5379695 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0620 | within the trench              | 362214 | 5379771 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0621 | within the trench              | 362302 | 5379789 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0622 | within the trench              | 362275 | 5379873 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0623 | within the trench              | 362342 | 5379983 | stream sediment | sandstone and conglomerate               | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology   | Date of Sampling | Sampling Person                            | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|--|---------|
| C0624 | within the trench              | 362365 | 5380074 | stream sediment | sandstone and conglomerate                 | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0625 | within the trench              | 362520 | 5380162 | stream sediment | sandstone and conglomerate                 | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0626 | within the trench              | 362573 | 5380178 | stream sediment | sandstone and conglomerate                 | 2011.5.30        | SONG Shaowei, HAN Zihua, WANG Chen, XU Kun |         |
| C0627 | at the mouth of the trench     | 363230 | 5379315 | stream sediment | sandstone, conglomerate and black mudstone | 2011.5.31        | HAN Zihua, WANG Chen, XU Kun               |         |
| C0628 | within the trench              | 363175 | 5379265 | stream sediment | sandstone, conglomerate and black mudstone | 2011.5.31        | HAN Zihua, WANG Chen, XU Kun               |         |
| C0629 | within the trench              | 363119 | 5379208 | stream sediment | sandstone, conglomerate and black mudstone | 2011.5.31        | HAN Zihua, WANG Chen, XU Kun               |         |
| C0630 | within the trench              | 363104 | 5379133 | stream sediment | sandstone, conglomerate and black mudstone | 2011.5.31        | HAN Zihua, WANG Chen, XU Kun               |         |
| C0631 | within the trench              | 363056 | 5379004 | stream          | sandstone, conglomerate and black          | 2011.5.31        | HAN Zihua, WANG                            |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology    | Date of Sampling | Sampling Person               | Remarks |
|-------|--------------------------------|--------|---------|-----------------|---|------------------|-------------------------------|---------|
|       |                                |        |         | sediment        | mudstone                                    |                  | Chen, XU Kun                  |         |
| C0632 | within the trench              | 363033 | 5378893 | stream sediment | sandstone, conglomerate and black mudstone  | 2011.5.31        | HAN Zhihua, WANG Chen, XU Kun |         |
| C0633 | within the trench              | 363052 | 5378803 | stream sediment | sandstone, conglomerate and yellow mudstone | 2011.5.31        | HAN Zhihua, WANG Chen, XU Kun |         |
| C0634 | within the trench              | 363081 | 5378689 | stream sediment | sandstone, conglomerate and black mudstone  | 2011.5.31        | HAN Zhihua, WANG Chen, XU Kun |         |
| C0635 | within the trench              | 363087 | 5378669 | stream sediment | sandstone, conglomerate and black mudstone  | 2011.5.31        | HAN Zhihua, WANG Chen, XU Kun |         |
| C0636 | at the mouth of the trench     | 364057 | 5379209 | stream sediment | mudstone and sandstone                      | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0637 | within the trench              | 363899 | 5379193 | stream sediment | sandstone, conglomerate and mudstone        | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0638 | within the trench              | 363854 | 5379141 | stream sediment | sandstone, conglomerate and mudstone        | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0639 | within the trench              | 363780 | 5379027 | stream sediment | sandstone, conglomerate and mudstone        | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person               | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|-------------------------------|---------|
| C0640 | within the trench              | 363709 | 5378927 | stream sediment | sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0641 | within the trench              | 363625 | 5378843 | stream sediment | Sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0642 | within the trench              | 363525 | 5378827 | stream sediment | Sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0643 | within the trench              | 363465 | 5378750 | stream sediment | sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0644 | within the trench              | 363418 | 5378669 | stream sediment | sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0645 | within the trench              | 363403 | 5378651 | stream sediment | sandstone, conglomerate and mudstone     | 2011.6.1         | HAN Zhihua, WANG Chen, XU Kun |         |
| C0646 | within the trench              | 362675 | 5379947 | stream sediment | sandstone and conglomerate               | 2011.6.2         | WANG Chen, XU Kun             |         |
| C0647 | within the trench              | 362629 | 5379849 | stream sediment | sandstone and conglomerate               | 2011.6.2         | WANG Chen, XU Kun             |         |
| C0648 | within the trench              | 362706 | 5380000 | stream          | sandstone and conglomerate               | 2011.6.2         | WANG Chen, XU Kun             |         |

| No.   | Location of the Sampling Point | X      | Y       | Sampling Medium | Description of the Surrounding Lithology | Date of Sampling | Sampling Person      | Remarks |
|-------|--------------------------------|--------|---------|-----------------|--|------------------|----------------------|---------|
|       |                                |        |         | sediment        |  |                  |                      |         |
| C0652 | at the mouth of the trench     | 363462 | 5376197 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0653 | within the trench              | 363555 | 5376303 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0654 | within the trench              | 363478 | 5376444 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0655 | within the trench              | 363305 | 5376555 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0656 | within the trench              | 363309 | 5376705 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0657 | within the trench              | 363296 | 5376910 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0658 | trench intersection            | 363245 | 5377006 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |
| C0659 | trench intersection            | 363217 | 5377107 | stream sediment | sandstone and conglomerate               | 2011.6.2         | YANG Wei, HAN Zhihua |         |

