

Chapter 3 I-4 Area and Southern I-4 Area

In the I-4 area, the drill hole MJTM-4 was drilled near the Huai Mae Kanai zinc and lead occurrence according to the result of the Phase 1 exploration by the geochemical soil survey and geophysical survey.

The regional geochemical stream sediments survey in the Phase 1 had been revealed the broad Zn and Pb anomaly area extending from Huai Hin Lek Fai valley to Huai Pu valley and Mae Pan Noi valley. In this year, the detailed geological survey and reconnaissance of the geochemical soil survey was carried out to check the mineralization brought the stream sediments' anomaly in the Southern I-4 area.

3-1 Outline of Geology

The northernmost of I-4 area is the southern extremity of the north trending large Ordovician limestone body.

The Southern I-4 area is chiefly underlain by Devonian-Carboniferous sedimentary rocks. The western part of the area is cut by a north striking fault belonging to the north trending tectonic line along Mae Nam Yuam. Permian limestone lies on the west side of the fault.

3-2 Detail Description of Geology

3-2-1 Sedimentary rocks

1. Ordovician sedimentary rocks (O1, O2)

The Ordovician sedimentary rocks mainly consist of schistose limestone and interbedded black shale and sandstone. The limestone area shows a small-scale cockpit karst landform formed by leaching and erosion along the foliation.

2. Devonian-Carboniferous sedimentary rocks (H-Ds, H-Dc, H-Dl)

The Devonian-Carboniferous sedimentary rocks mainly consist of black shale but contain fine alternation and graded beds of shale and sandstone, thick chert beds, and some beds alternating limestone and chert. Black shale rarely contains several ten centimeters dolomite lenses.

To the north of the Huai Pong valley, a thick chert bed interbeds in black shale. It is composed of hard and brittle stratified chert. The thickness of each layer ranges from 2 to 10 cm.

Black shale is dominant in the Huai Pu valley. It contains several units of the fine alternation of limestone and chert. The surface of the alternating rock shows a series of separated thin plates of residual chert by selective dissolution of limestone layers.

The rocks in the southwestern part of the area have been subjected to the contact metamorphism by a granite batholith intruding to the east of the area. Black shale has been metamorphosed to micaceous schistose pelitic hornfels, and the calcareous part of the alternating chert and limestone contains a large amount of calc-silicate minerals such as wollastonite. Pelitic biotite hornfels also occurs in places in the Huai Pu valley.

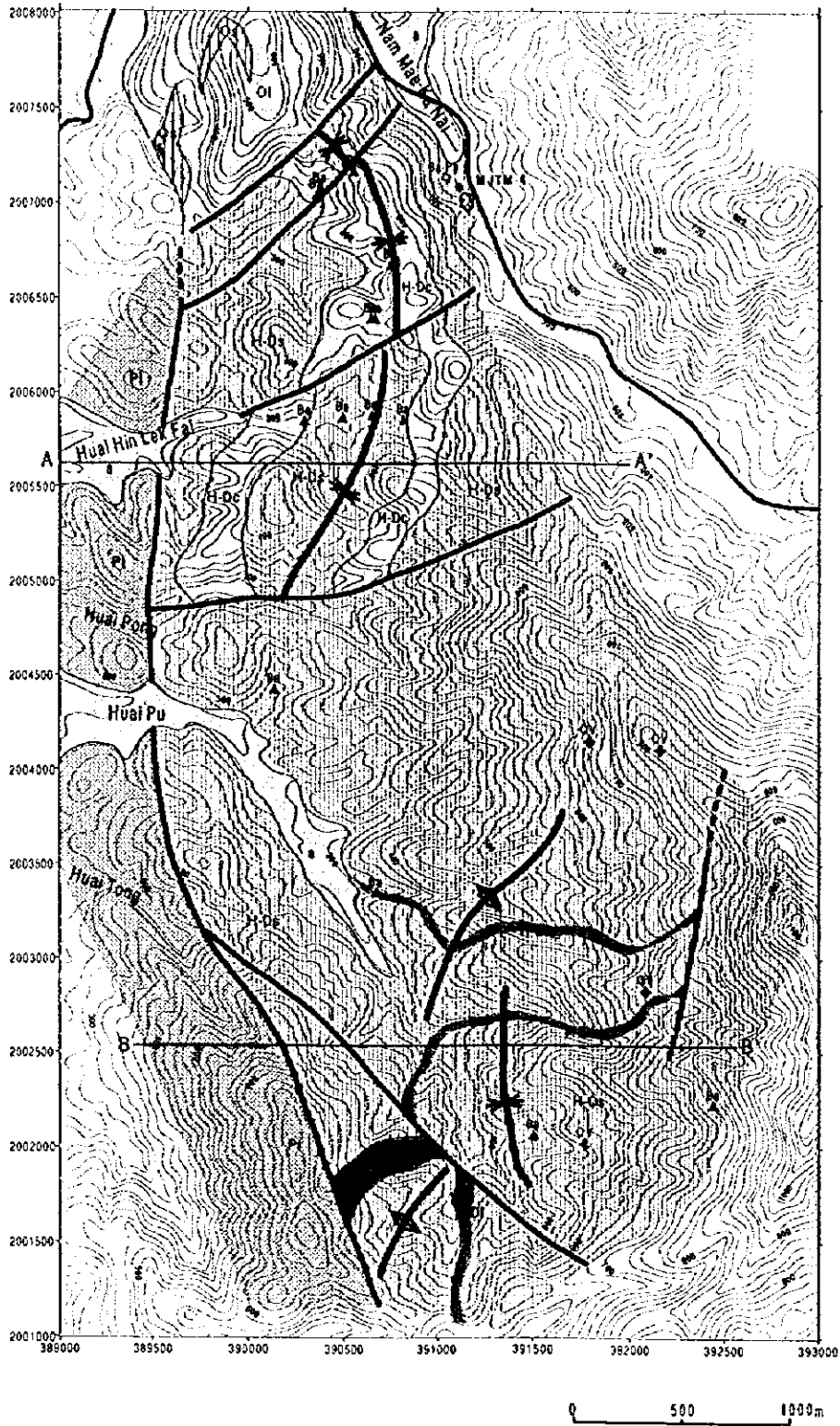
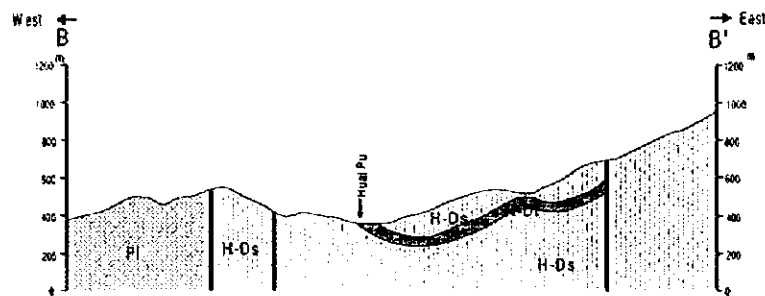
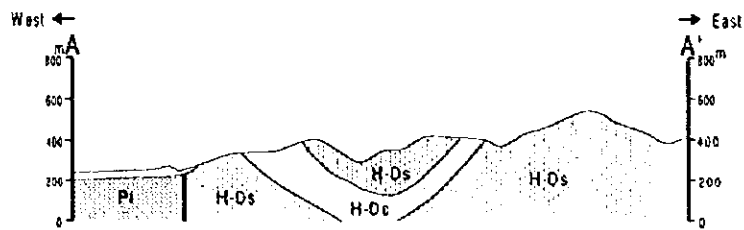


Fig. II-3-1-1 Geologic map of the Southern I-4 Area



LEGEND

1. Sedimentary rocks

| | | |
|----------------------------|--------|-----------------------------|
| Quaternary | □ a | alluvium |
| Permian | □ Pl | limestone |
| Carboniferous -Devonian | □ H-Ds | shale, sandstone |
| | □ H-Dc | chert |
| | ■ | limestone/chert alternation |
| Ordovician | □ Os | shale, sandstone |
| | □ OI | limestone |

2. Geologic symbols

| | |
|----------|------------------|
| — | Fault |
| - - - | Fault (inferred) |
| ∩ | Syncline |
| ∪ | Anticline |
| ● M3TM-4 | Drill hole |
| A — A' | Profile line |

3. Mineral occurrence

| | |
|---|---------------------------|
| ⊠ | galena-sphalerite outcrop |
| ▲ | barite (-galena) float |
| ◆ | quartz stockwork |
| □ | hornfels |

Fig. II-3-1-2 Geologic profile of the Southern I-4 Area

3. Permian limestone (P1)

The Permian limestone in the western part of the area is in fault contact with the Devonian-Carboniferous sedimentary rock. The limestone is composed of gray to white massive limestone and contains a small amount of the laminated argillaceous limestone.

3-3 Geological Structure

The Ordovician and Devonian-Carboniferous rocks are cut by several northeast striking faults. The western part of the Southern I-4 area is cut by a north striking fault belonging to the north trending tectonic line along Mae Nam Yuam.

The Devonian-Carboniferous rocks are complexly folded on outcrops, but the fold as a whole is a north-south trending syncline in the northern part and a series of northeast-southwest trending syncline and anticline in the southern part of the area.

3-4 Mineral Occurrences

3-4-1 Nam Mae Kanai mineral occurrence

This mineral occurrence consists of veins and dissemination of galena, sphalerite and arsenopyrite. The drill hole MJTM-4 was drilled to confirm the extension of the mineralization. The drilling result is described on Chapter 3-5.

3-4-2 Barite-galena veins

Some barite-galena floats occur in the Devonian-Carboniferous black shale area. They are composed of the irregular barite-galena veins ranging from 2 to 10 cm in width. Generally the veins fill the fissures of black shale. The maximum size of floats is 60 cm.

The sample in the lower stream of Huai Pu contains 615 ppm Pb and 140 ppm Zn, though the barite-galena samples collected in Nam Mae Pan valley neighboring on Huai Pu at Phase 1 survey contains high zinc content ranging from 2,000 to 3,000 ppm.

3-4-3 Quartz stockworks

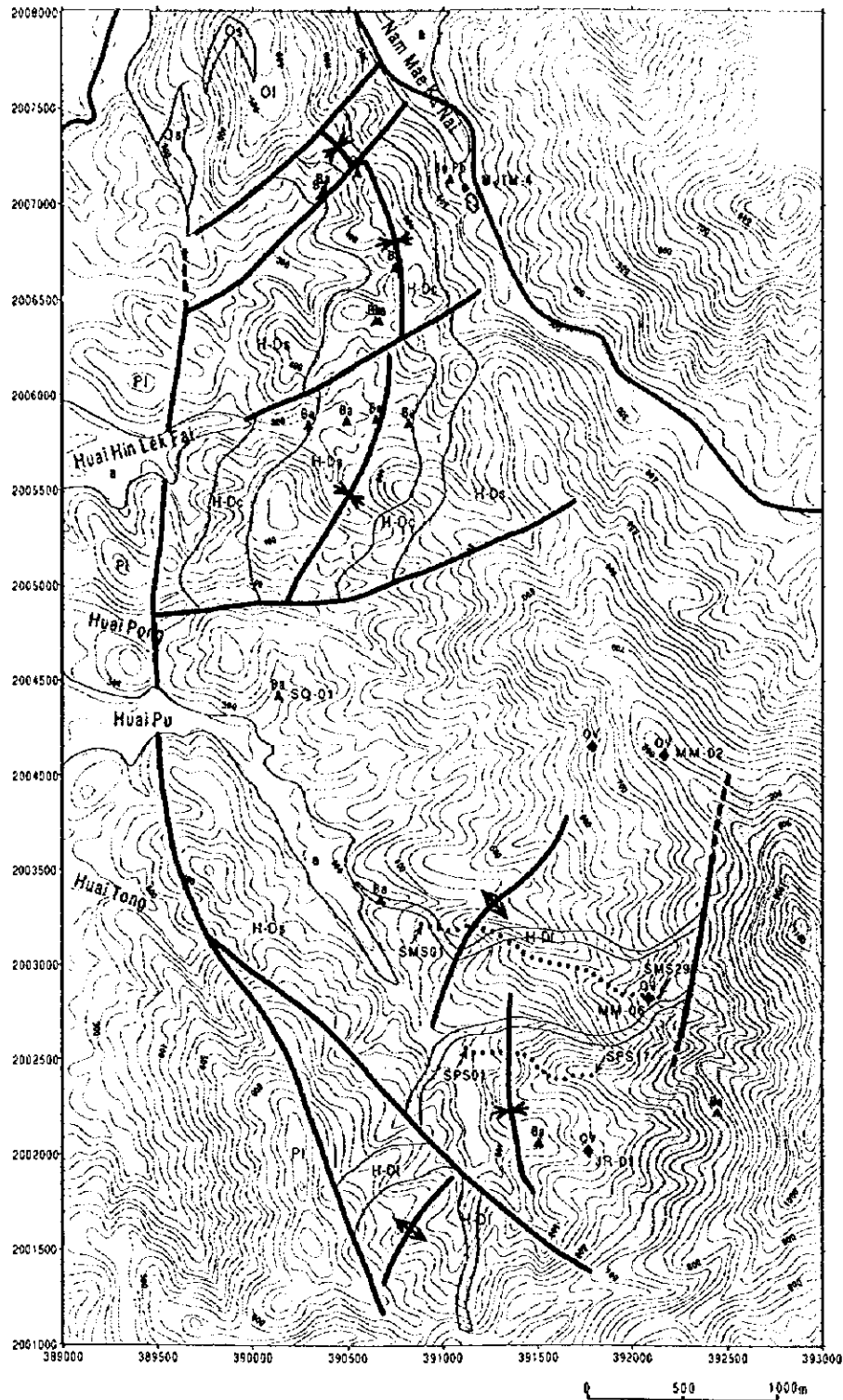
Several small quartz stockworks zones occur in the upper stream of Huai Pu valley. They are found in brecciated and silicified shale. The silicified zones are less than 10 meters wide.

The analysis result of MM-02 sample taken on the eastward ridge is 188 ppm Cu, 341 ppm Pb and 560 ppm Zn. Two samples (JR-01, MM-06) collected from other stockworks contains no anomalous values of Cu, Zn and Pb, and only pyrite is observed under the microscope.

3-5 Geochemical Survey

3-5-1 Sampling

Two sampling lines, SMS and SPS, are arranged on two ridges in the Huai Pu valley, and sample points are at a spacing of about 50 m.



Geologic symbols

- Fault
- Fault (inferred)
- syncline
- anticline
- hornfels
- Drill hole
- Geochemical Soil Sample

Mineral occurrence

- galena-sphalerite outcrop
- barite (-galena) float
- quartz stockwork

Fig. II-3-4-1 Mineral Occurrences of the Southern I-4 Area

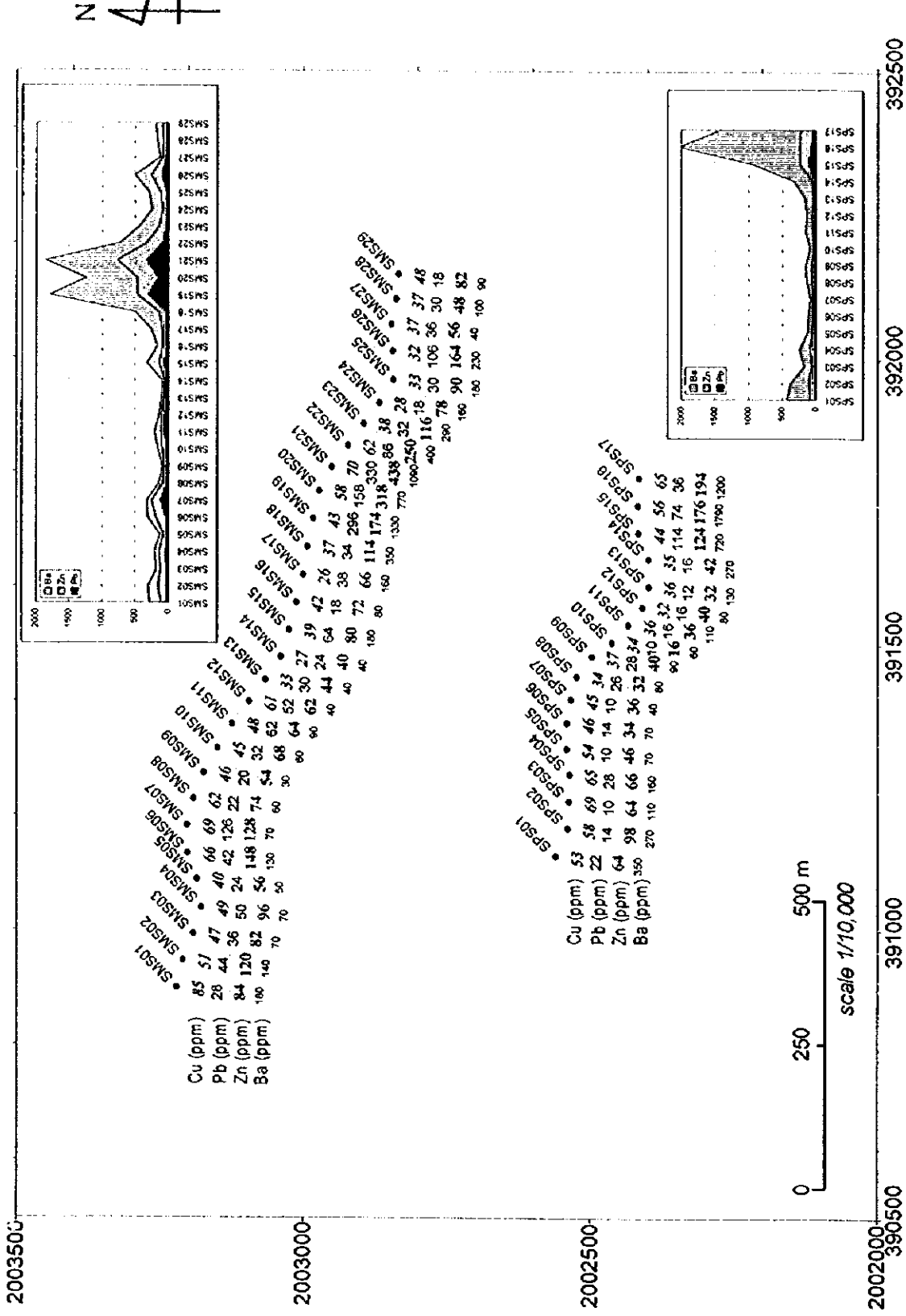


Fig. II-3-5-1 Cu, Pb, Zn and Ba content in the soil of the Southern I-4 Area

Most samples are collected from black shale area, but the samples from SMS02 to SMS03 and from SMS09 to SMS11 are in the area of alternating chert and limestone and those from SMS27 to SMS28 are in the area around the silicified shale with quartz stockworks.

The number of soil samples is 46.

3-5-2 Distribution of contents

The Cu, Pb, Zn and Ba values of each soil sample are shown in Fig. II-3-5-1.

The Cu values are invariable, whereas the Zn, Pb and Ba values are varied and there is a strong correlation each other shown as the stacked chart in Fig. II-3-5-1.

The samples on alternating rocks and a silicified zone with quartz stockworks do not show anomaly values of Pb, Zn and Ba, while those on black shale contain rather high anomalous values. Those high values of Pb, Zn and Ba in soil are almost the same levels as those in stream sediments samples.

The correlation of elements and the mineral occurrences show that the Pb-Zn mineralization of the Southern I-4 area has a close association with a distribution of barite-galena veinlets. Therefore it is also inferred that some amount of barite-galena veinlets contained in the area from SMS19 to SMS21 and from SPS15 to SPS17.

It appears from the above that the anomaly detected by regional stream sediments geochemical survey origins from barite-galena veinlets in black shale and/or quartz stockworks zones accompanied by brecciated and silicified shale. The broad geochemical anomaly of stream sediments may indicate that these vein-type mineralizations are common in the Southern I-4 area. But only confined barite-galena mineralized floats have been found and its Zn and Pb grade are not high, and quartz stockworks are small scale. Therefore there is a little possibility that an economic minable deposit exists in the area from Huai Hin Lek Fai valley to Huai Pu valley.

3-6 Drilling Survey

3-6-1 Outline of Drilling survey

1. Outline of the work

Drilling survey MJTM-4 in the I-4 area was performed to confirm the mineralization related Mae Kanai River mineralization zone with high geochemical anomaly of Pb and Zn, and high chargeability zone of IP survey.

Location of drilling point is shown in Fig. II-3-6-1. The Length of MJTM-4 was 210.20m.

The first two holes were drilled by using one drilling machine, MPR-3. A drilling team consists of one operator and 3 to 4 workers per shift except movement and assembling, and dismantlement and withdrawal. Each hole was drilled 24 hours by three shifts as a rule.

Construction work was started on October 22, 1998, which was the widening and maintenance of old road connecting from National way 108 to drilling site about 150m in length. It was

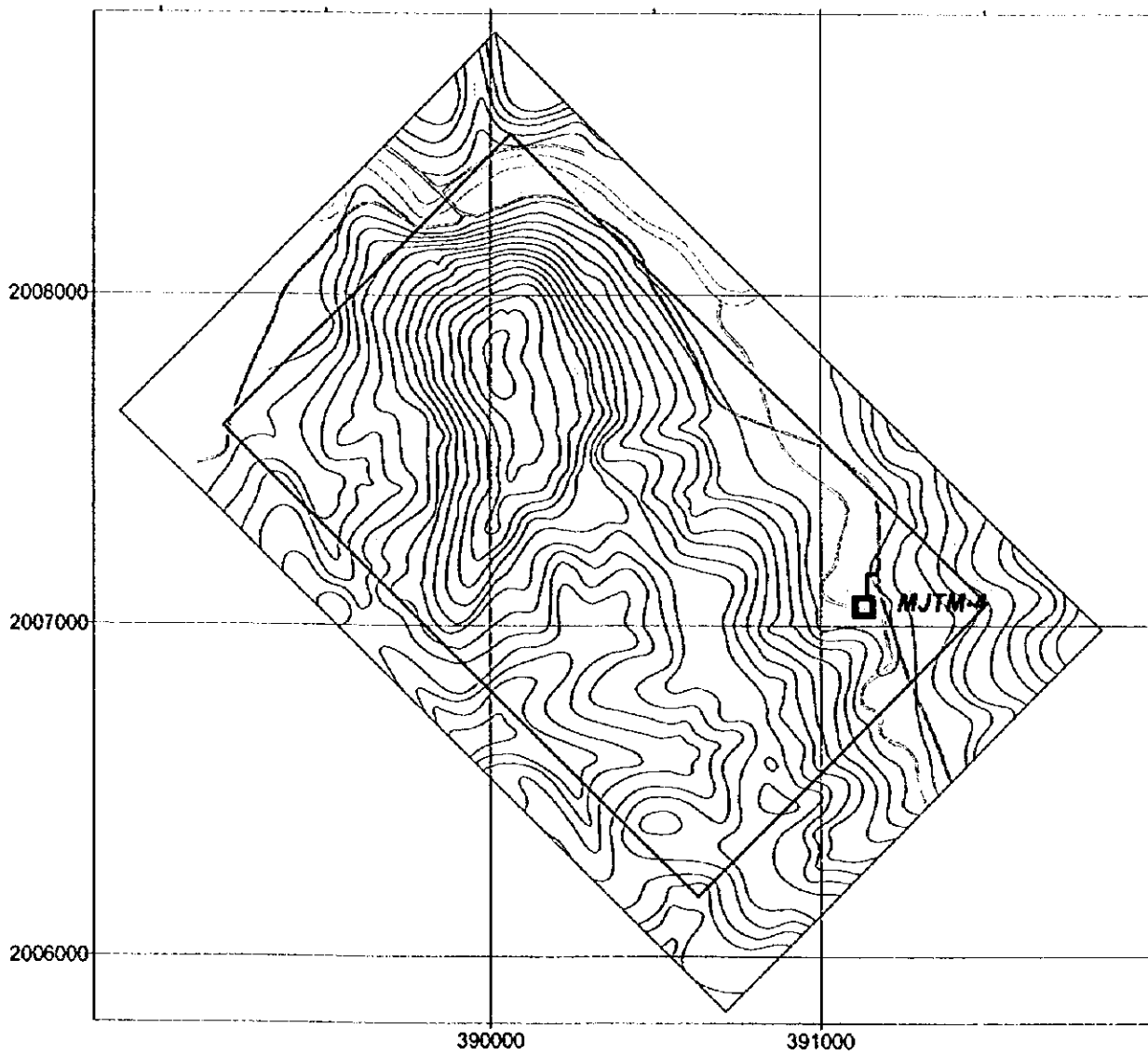


Fig. II-3-6-1 Locatin map of drilling point in the I-4 area

completely finished until leveling of drilling site on 24, October. Drilling machine was transported from Bangkok by trailer truck and it was set up at the drilling site on 25 October.

The term of drilling work was from October 27 to November 4, 1998.

2. Drilling method and used drilling machines

The drilling is carried out by a wire-line method using only HQ size.

In Alluvium deposit about 9m in thick, it was drilled by 5 inches tricorner bit. All of slime was certainly retrieved from hole. After that, Casing pipe of 4 inches PVC pipe was put in at the depth of 9.20m. From 9.20m to the bottom it was drilled by HQ size.

The type of drilling machine were the MPR-3 that was the caterpillar mounted type of the Drillcorp South East Asia.

The drilling machines and wear parts used in the drilling work including those in the MJTM-4 hole of the I-4 area are shown in Appendix 10.

3. Drilling work

(1) Setup work

[Road Preparation]

Drilling site of MJTM-4 孔 was situated nearby National highway 108. Old road about 2m in width connected from the Highway to the site. For the transportation of equipment, this road was widened and maintained. Planned point was in the riverbed of Mae Kanai River.

[Bringing and Setup of Equipment]

Drilling machine, MPR-3 was transported by trailer truck from Bangkok to the nearest point on the highway. The MPR-3 moved to the site by itself.

(2) Shifting of Equipment

After drilling MJTM-4, the machine moved back to the highway and was transported by trailer truck to Ban Mae Ho.

(3) Drilling Water

MJTM-4 was situated beside of Mae Kanai River. Then drilling water was pumped up to Mud mixer directly.

(4) Drilling Operation

Summary of drilling activity is shown in Table II-1-8-2.

MJTM-4: It was drilled 210.20m toward true south direction with 70-degree inclination from just planned point. From surface to 9.00m in the alluvium deposit it was bored by 5 inches tricorner bit. After reaching bedrock 4 inches PVC pipe was casing off at the depth of 9.20m. Drilling was smoothly performed by HQ size bit to the bottom without the term of machine maintenance.

(5) Withdraw of equipment

MPR-3 was transported by trailer truck to Ban Mae Ho and was self-propelled from Ban Mae Ho to Ban Dong Noi.

Drilling site was cleaning up immediately as the request of landowner.

The cores were observed and taken samples for analysis in Mae Sariang town and were stored in the core warehouse of the Chiang Mai Branch of the Department of Mineral Resources.

3-6-2 Geology of drilling hole

MJTM-4: to 210.20m

0.00~ 9.00m Alluvium deposit. It is composed of boulder to granule and sand.

9.00~ 13.10m Thin alternation of gray and black shale. Pyrite stringers are well developed along bedding and fracture. At 11.65m quartz vein with 3mm in width is observed with pyrite, pyrrhotite, chlorite and smectite.

13.10~ 21.90m Gray banded chert. Chalcedonic quartz veins with chlorite, epidote and pyrite is abundantly observed. Sphalerite is formed on joint planes at 16.80m. A large amount of pyrite and pyrrhotite disseminate at 18.80 to 21.90m.

21.90~ 33.35m Alternation of silicified rock, shale, sandstone and sandy tuff. Slumping texture is remarkable in shale. Generally silicification and smectite alteration is strong and accompanied with much of sulfide. Quartz vein at 27.10~28.20m and 28.20~29.20m contains pyrite, pyrrhotite, galena, sphalerite. Ore assay at 21.50~23.50m, 26.00~28.20m and 31.40~33.35m show 100, 45, 10ppb Au, 1.0, 20.6, 15.8g/t Ag, 146, 310, 335ppm Cu, 927ppm, 2.55%, 8,830 ppm Pb, 74, 700, 66ppm Zn, 85, 430, >1,000ppm Sn.

33.35~ 74.00m Black shale is dominant with sandstone thin bed. Calcite veinlets are often observed but these have no ore minerals.

74.00~ 85.40m Alternation of chert, siliceous shale, black shale and sandstone. Pyrite dissemination is abundant around pyrite-calcite-quartz veins.

85.40~143.60m It is mainly consist of black shale with slumping texture with a small amount of sandstone and chert. Pyrite and pyrrhotite dissemination is distinct enclosed with foliated part and calcite-quartz vein. Quartz vein at 108.80~109.10m is accompanied with abundant pyrite and a small amount of galena and sphalerite. Assay of this quartz vein is Ag 1.2g/t, Cu 22ppm, Pb 3,730ppm, Zn 1.22%. Assay of pyrite disseminated part at 103.00~104.00m, 114.00~115.00m and 116.50~118.00m show 90~153ppm Cu, 187~371ppm Pb, 130~640ppm Zn.

143.60~149.40m It is composed of argillaceous dolomite, reddish brown shale with limestone lamina and alternation of shale and sandstone. Silicification is observed all over, but no ore mineral is in it.

149.40~154.60m Reddish brown and gray banded chert. Calcite network vein is well developed.

154.60~163.40m Thin alternation of chert and dolomite. Dolomite becomes dominant toward lower. No mineralization is observed.

163.40~169.60m Impure banded dolomite with shale and chert lamina. It is partly silicified

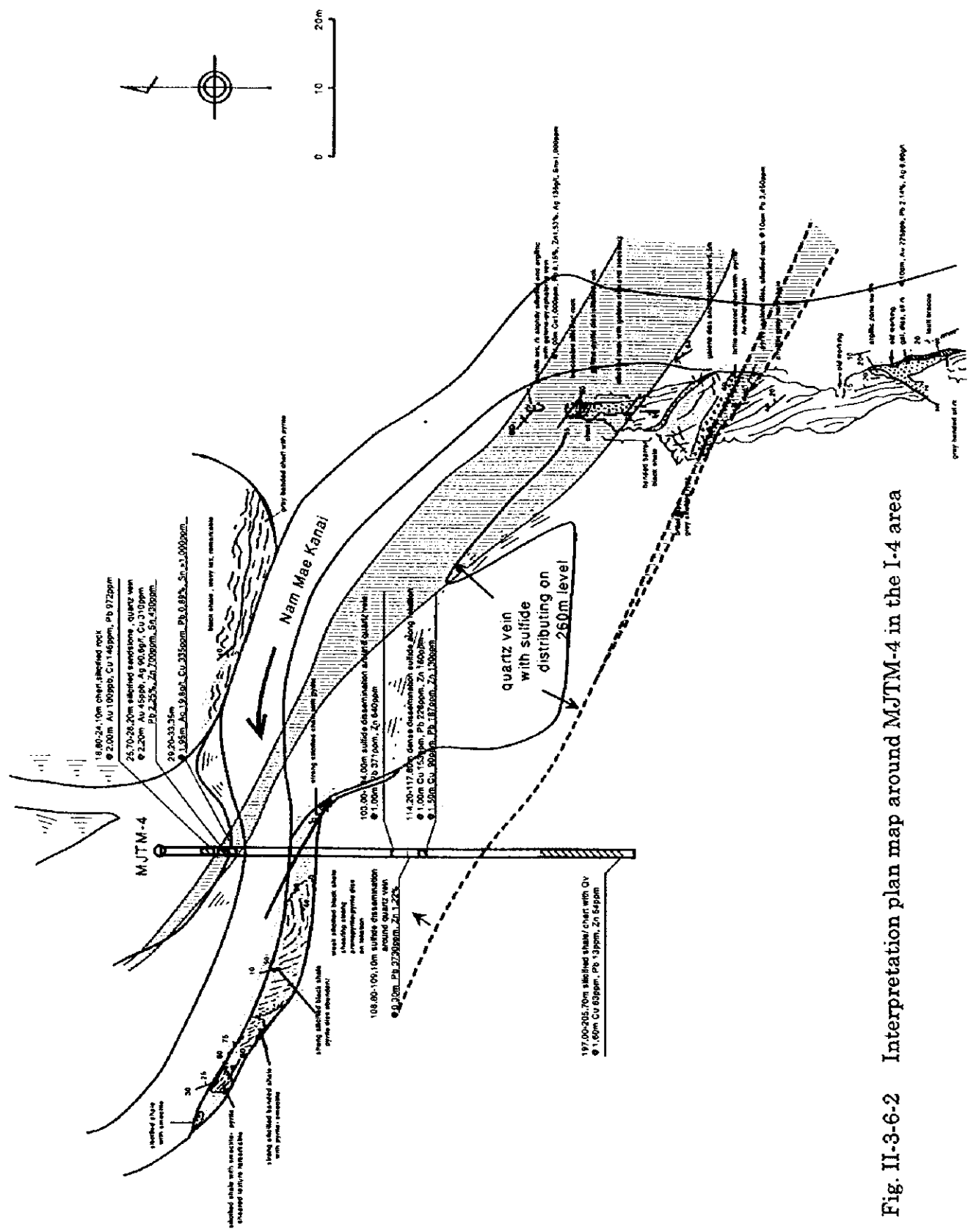


Fig. II-3-6-2 Interpretation plan map around MJTM-4 in the I-4 area

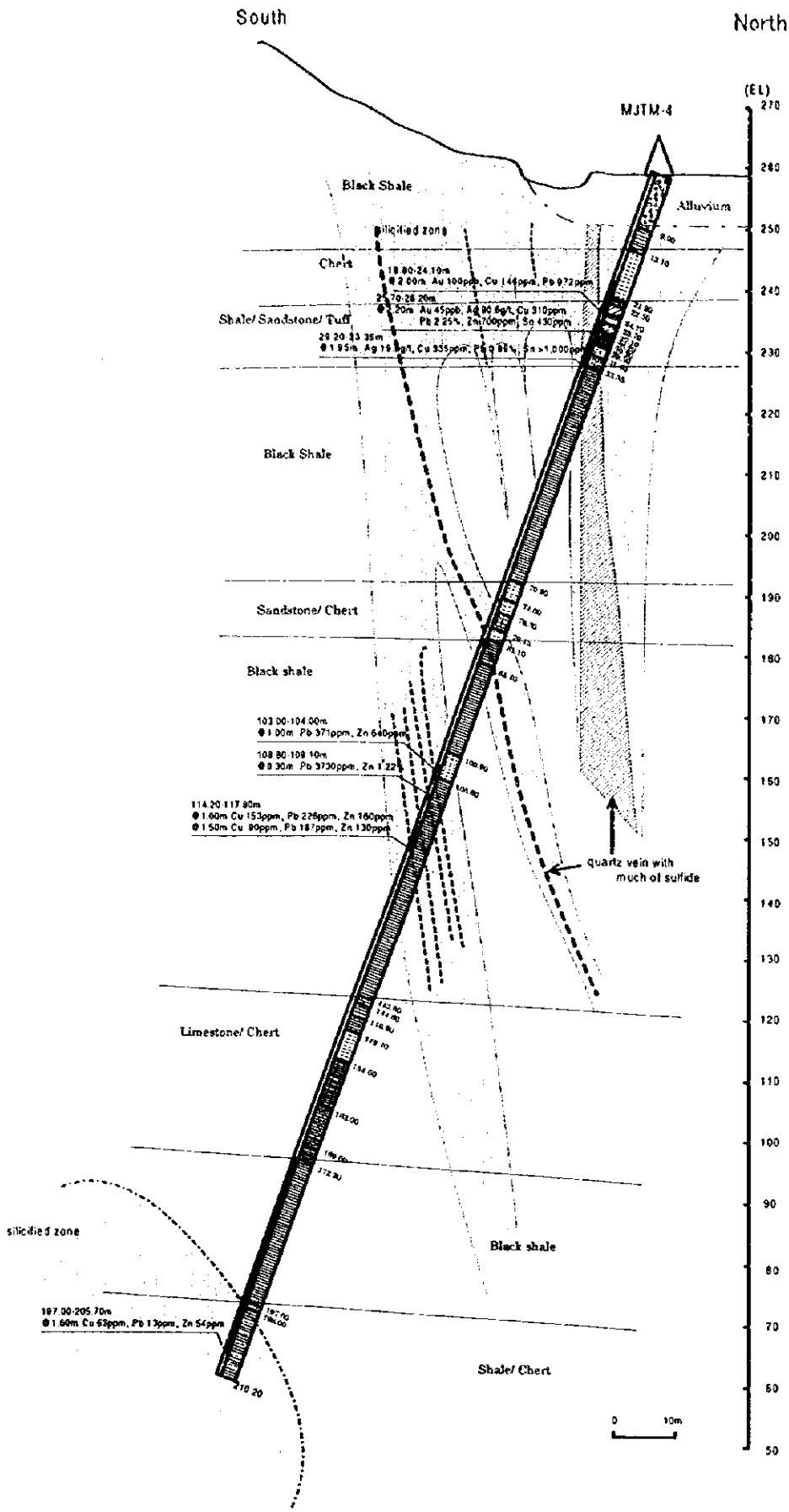


Fig. II-3-6-3 Interpretation section map of MJTM-4 in the I-4 area
-138-

with pyrite.

169.60~197.00m Black shale. Pyrite dissemination is distinct along bedding or with nebulitic texture.

197.00~198.00m Silicified rock. Alteration of Chlorite and smectite is strong with pyrite and pyrrhotite dissemination.

198.00~210.10m Alternation of shale and chert with a small amount of dolomite. Generally Silicification and argillization occur in it. Quartz vein network is developed. Assay for Cu, Pb, Zn is very low.

3-6-4 Consideration

Geology and mineralization around MJTM-4 is shown in Fig. II-3-6-2 and Fig. II-3-6-3.

There is consist of Devonian to Carboniferous shale and chert. The bed strikes in NW-SE trends and dips southwest gently.

Mineralization zone at the depth ranging 20 to 30 m dips steeply and 4m width. This zone is precisely continued to a quartz veins with sulfide in north-end of outcrop along Mae Kanai river. The width of Mineralization zone is 12m, partly hidden by gravel. The length between MJTM-4 and outcrop is about 100m. A float of galena-quartz vein is existing far from MJTM-4 about 150m in northwest. If mineralization ought to be continued there, its length is more than 250m. Ore assay samples are not so much. But it is 19.8~135g/t Ag, 310~1,000ppm Cu, 0.89~8.15% Pb, >1,000ppm Sn.

A sulfide vein and disseminated zone with weak silicification dip 60 degree to north. This part ought to be correlated with pyrite-galena disseminated silicified rock in the central of outcrop by comparing the nature of vein. An assay datum is obtained at the outcrop. It is 0.3% Pb.

Mineralization zone, such as quartz vein and calcite-quartz vein with sulfide, between 105m and 120m dip steeply 70 to 80 degree. This zone might converge to the mineralized zone at 80m as it goes to up. Assay data of Pb-Zn with 1m width is only a few hundred ppm, but in special a datum shows 0.37% Pb, 1.22% Zn in a section of 30cm.

A low resistivity and high chargeability zone of last IP survey ought to be correlated with the pyrite disseminated part in shale and not with massive sulfide mass.

3-7 General Discussion

The Southern I-1 area is mainly underlain by Devonian-Carboniferous sedimentary rocks. Permian limestone is in a north striking fault contact with Devonian-Carboniferous formation in the western part of the area.

The Devonian-Carboniferous formation mainly consists of black shale with fine alternation and graded beds of shale and sandstone, but contains thick chert beds and the beds alternation of limestone and chert. Black shale rarely contains several ten centimeters dolomite lenses. The rocks in the southwestern part have been subjected to the contact metamorphism by a granite

batholith intruding to the east of the area. Black shale has been metamorphosed to micaceous schistose pelitic hornfels, and the calcareous part of the alternating rock contains a large amount of calc-silicate minerals. Pelitic biotite hornfels also occurs in places in Huai Pu valley.

The Permian limestone is composed of gray to white massive limestone, and contains a small amount of the laminated argillaceous limestone.

The Devonian-Carboniferous rocks are cut by several northeast striking faults. They are observed complexly folded in the field, but the fold as a whole is a series of northeast trending syncline and anticline. A north-south striking fault divides into the Devonian-Carboniferous rocks and Permian rocks.

Some floats with galena-barite veinlets are found in places in Huai Pu valley, but no outcrop has been confirmed. The chemical composition of a galena-barite sample shows 615 ppm Pb and 140 ppm Zn. These values are rather lower than those of the samples collected in Nam Mae Pan neighboring south on Huai Pu.

Some small quartz stockworks zones less than 10 meters wide in brecciated and silicified shale occur in the upper stream of Huai Pu valley. One of the samples shows 188 ppm Cu, 341 ppm Pb, and 560 ppm Zn, but other samples contain very low content of copper, lead and zinc.

Two soil geochemical sampling lines traversing a general geologic trend were arranged on two ridges in Huai Pu valley. Some high values of Pb, Zn and Ba in soil are detected on black shale. These values are almost the same level as those in regional stream sediments geochemical samples.

This means that the anomaly detected by regional stream sediments geochemical survey on Phase 1 survey originates from barite-galena veinlets in black shale and/or quartz stockworks accompanied by brecciated and silicified shale. The broad geochemical anomaly of stream sediments may indicate that these vein-type mineralizations are common in the Southern I-4 area. But only confined and low-grade floats mineralized by galena-barite veinlets have been found in the field survey, and quartz stockworks are very small scale. There is no discovery of other type mineralization in the area. Therefore there is a little possibility that an economic minable deposit exists in the Southern I-4 area.

The drill hole MJTM-4 in the I-4 area could encounter the mineralization extending from Nam Mae Kanai occurrence. The mineralized zone at the depth ranging from 20 to 30 m is almost vertical and about 4 m wide. It is inferred from a plane projection that the mineralized zone is an extension of veinlets with 12 m wide in the northernmost of Nam Mae Kanai occurrence. This vein continues horizontally about 250 m on the assumption that the vein continues to the slope 150 m northwest of the drilling site, where floats of galena-barite-quartz vein occur and its grade was 16.8 % Pb. The estimated width of mineralized zone from MJTM-4 to the occurrence ranges from 4 to 12 m, and the distance is about 100 m. It is inferred that the mineralization extends to the southeast side and to the deeper part. The estimated grade ranges from 19.8 to 135 g/t Ag, 310 to 1,000 ppm Cu, 0.89 to 8.15 % Pb, and more than 0.1 % Zn based on the chemical analysis

of core samples, but all length of mineralized core is not analyzed.

Other two mineralized zones are observed at the 81 m depth and the depth ranging from 105 to 120m. The former zone is corresponded to the pyrite-galena disseminated silicified rock on the surface, that is Nam Mar Kanai occurrence, by its similar characteristic of mineralization. Usually the grade is not high as a whole, but this zone frequently contains highly mineralized parts; for example 0.37 % Pb and 1.22 % Zn by 30 cm core sample.

Judging from the geology of MJTM-1 and its surrounding area, the mineralization of the Nam Mae Kanai occurrence extends to the N50° W direction and is accompanied by silicification and smectite argillic halo. The alteration zone is about 100 m wide and 300 m long.

An alternation bed of carbonate rock and chert occurs at the depth ranging from 140 to 170 m in MJTM-1, but no mineralization is observed. Therefore it appears that the zinc and lead mineralization replacing a carbonate rock may not exist in the I-1 area.

Another area overlapping with the geochemical anomaly, low-resistivity and high-chargeability zone is detected to the west of Mae Ka Nai occurrence. The area has also high potential because of the same characteristic with the occurrence. Further exploration needs to confirm the mineralized rocks at this area.

Chapter 4 Laboratory Test

4-1 Homogenized Temperature and Salinity of Fluid Inclusion

Homogenized temperature and salinity of fluid inclusion were tested for elucidating the forming temperature of mineralization and the nature of hydrothermal solution. These data are shown in Appendix 14.

Measured samples in this phase are quartz, calcite and barite collected from Dong Noi area, Mae Kanai area, I-1 area and Southern I-1 area. Some samples have no fluid inclusion. Some samples were too small to measure the property.

In Fig. II-4-1-1 is presented the result of two phases. The upper figure contains the sample from Pha Deang Mine area, Dong Noi area and Mae Kanai area. The lower figure includes data from I-1 area, Southern I-1 area and Huai Mac Phan area in the western part of Mae Sariang area.

Tak mine in the Pha Deang mine area is certainly the straribed type deposit replaced carbonate rock. Distinct alteration and thermal effect are not observed in shale overlaid on the ore body. In addition the fossils remain in sphalerite ore. These facts suggest that the ore body in the Pha Deang area was formed under low temperature and static condition. The results of laboratory test also support the idea that the ore solution making the Pha Deang mine was low temperature and high salinity as TAK-a and PHL-1.

It is much different of temperature and salinity between S-3 from lead outcrop in Dong Noi area and AR-002 from the uppermost of Pit 2. S-3 shows high temperature from 200 to 280°C

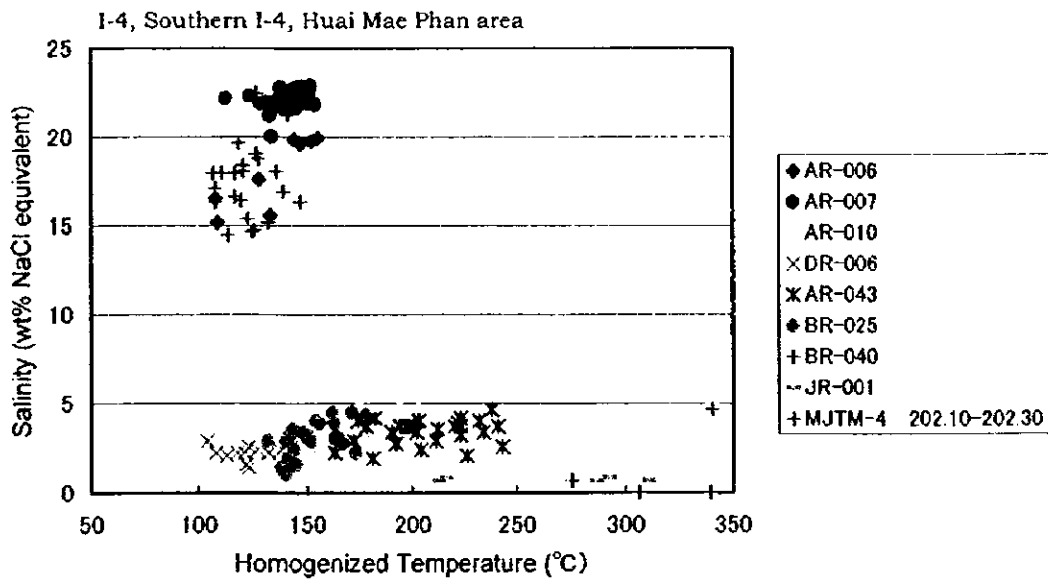
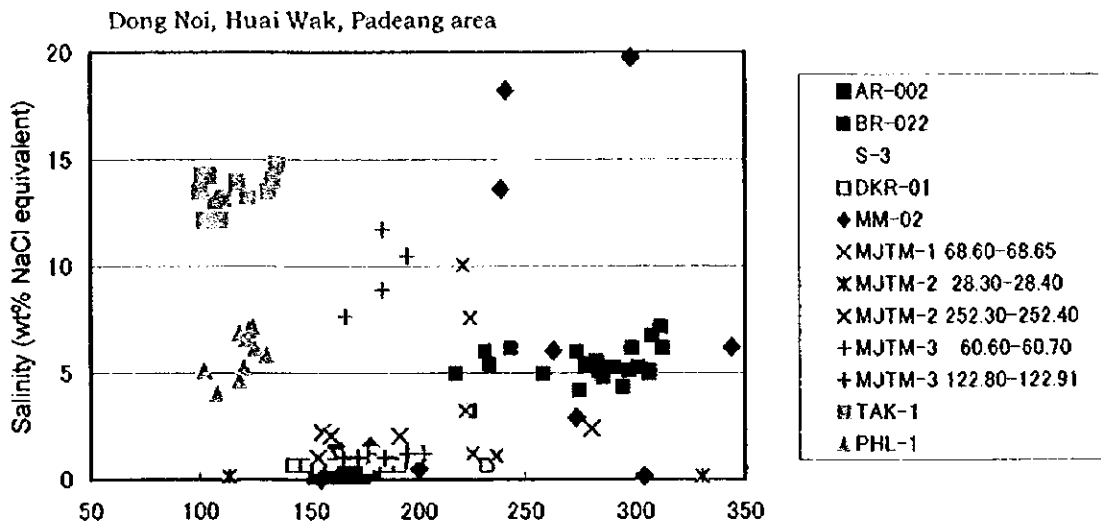


Fig. II-4-1-1 Diagram between homogenized temperature and salinity of fluid inclusion

and high salinity from 13 to 18%. On the other hand AR-002, which might be the latest barren quartz vein, shows low to middle temperature from 140 to 180°C and very low salinity. MM-02 from Huai Wak Cu-Pb occurrence in southern exterior Dong Noi area, which is a quartz stockwork vein in shale, includes three type inclusions such as low temperature and low salinity, high temperature and low to middle salinity and high temperature and high salinity. This sample has both natures of S-3 and AR-002.

A quartz vein (BR-002) from northern exterior Dong Noi area is from 200 to 320°C and about 5 % of salinity. This value is similar to S-3 and MM-02. This fact suggests the skarnized zone ought to be continued from Dong Noi area to there.

A sample from MJTM-1 and DKR-01 that is closely related with brown carbonate minerals is low temperature and low salinity. Brown carbonate mineral might be formed in the later stage of mineralization. A sample at the shallow part in brecciated dolomite of MJTM-2 is very low salinity and extremely separated distribution of homogenized temperature. Two samples from the deeper part of MJTM-2 and from MJTM-3 are low~middle temperature and high salinity around 10%. The activity of high salinity ore solution ought to exist in Dong Noi area

The nature of fluid inclusion in the western part of Mae Sariang area is clearly divided into two groups, one is low temperature and high salinity and the other is low salinity. The trend of low salinity group is similar to its nature of hydrothermal vein-type deposit in Japan. On the other hand, low temperature and very high salinity group includes AR-006 of a chalcopyrite-cuprite-galena-barite vein float, BR-010 of a galena disseminated silicified rock and AR-007 of galena-quartz vein float.

4-2 Stable Isotope Analysis of Carbon and Oxygen

Carbon and oxygen stable isotope analysis was done in regard to the evaluation of efficacy for exploration in this area same as last year. The results are given in Appendix 15 and Fig. II-4-2.

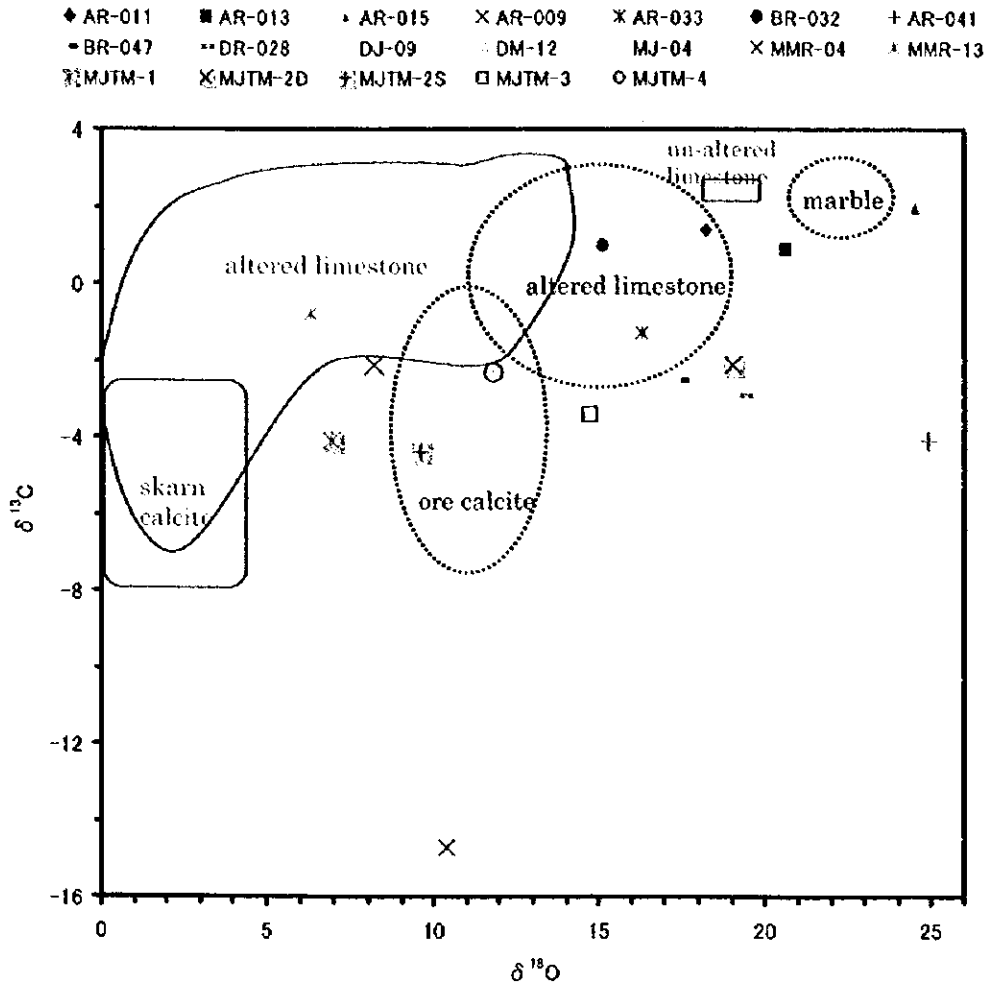
Naito et al. (1995) and Nakano et al. (1997) about Kamioka mine, Japan, and Fu et al. (1991) about Dachang mine, China, reported that both isotopes become lighter from unaltered marble to ore body.

$\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ of Padeang and Tak mine are almost similar to that of unaltered limestone.

Limestone from Chamrat mine underwent hydrothermal effect indicates the lowest $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ among all of samples. $\delta^{13}\text{C}$ and $\delta^{18}\text{O}$ of Dong Noi area are slightly lighter than those of Padeang Mine. $\delta^{13}\text{C}$ of I-4 area is also lighter than that of Padeang mine, but $\delta^{18}\text{O}$ is almost same.

Samples collected in this phase has the tendency of lighter carbon isotope than last year.

Oxygen stable isotope of re-crystalline dolomite without skarnization and dolomitization generally ranges from 15‰ to 20‰. Oxygen isotope distinctly tends to lighter in proportion as the varying degrees of skarnization, dolomitization and alteration by hydrothermal ore solution.



- carbonate rocks around Kamioka mine, Japan (Naito et al., 1995; Nakano et al., 1997)
- ⊗ carbonate rocks around Dachang mine, China (Fu et al., 1991)

Fig. II-4-2-1 Plot of $\delta^{13}\text{C}$ vs $\delta^{18}\text{O}$ values of carbonate rock

Part III

Conclusions and Recommendation for the Third Phase Survey

Chapter 1 Conclusions

1-1 Dong Noi Area

On the result of the trenching and drilling survey, it is made clear that the geochemical soil anomaly of Zn, Cd, Pb and Mn does not indicate the strata-bound or massive ore deposit embedded into limestone, but the galena-sphalerite dissemination related to dolomitization and the galena-sphalerite dissemination of fissures or shear zone in limestone located to the upper part of the skarn-type mineralization. The fluid inclusion examination revealed the existence of a high salinity ore fluid which needed to form a strata-bound or massive ore deposits, but it is inferred that this year's field did not have the geologic condition such as a large porous and/or fractured carbonate body to precipitate a large amount of ore minerals. The same mineral indication widely occurs in the northwestern part of the area, where detailed exploration has not been completed.

The soil geochemical anomaly of Cu, Pb and Ag is derived from the skarn-type mineralization adjacent a buried granite body. This anomaly extends northward from Dong Noi lead occurrence along a north striking fault. It can be interpreted that the skarn-type Cu, Pb and Ag mineralization intersected by the drill holes MJTM-3 and MJTM-5 is consistent with the north-south extending high chargeability zone with 100 m in diameter and more than 800 m in length obtained by the last year's IP survey. The ore assays of drill core samples range from 0.05 to 1.30 % Cu, from 1.4 to 46.4 g/t Ag, and from 0.02 to 12% Pb. Farther drillings and ore assays are necessary to confirm the reserve and grade of an ore deposit.

The outcrops of gossans were found on the ridge in the southern part of the Dong Noi area for the first time by this phase detailed geologic survey, and the geochemical soil sampling and the IP geophysical survey was carried out around the gossan zone. The gossan channel samples contain ranging from 600 to 800 ppm Cu. Though the values of all pathfinder elements in soil samples could not be obtained high values compared with those in the northern part of the area, the soil samples contain rather high copper content more than 100 ppm and a weak gold anomaly ranging from 30 to 40 ppb on the gossan zone. The IP survey is detected a low resistivity and high chargeability anomaly deeper than 800 meters above sea level, that is 200 m underground. The result of the geochemical survey and the IP survey may lead the existence of the vein-type or stockwork-type ore deposit under the gossan zone.

1-2 Mae Kanai Area

The Mae Kanai area is underlain by the Paleozoic sedimentary rocks. Triassic granite is distributed on the west side of the sedimentary rocks. The sedimentary rocks mainly consist of Ordovician shale, sandstone and limestone, but Silurian-Devonian sandstone is south and north, in fault contact with Ordovician rocks. Shale and sandstone unit are dominant in the Ordovician on the surface, but it is inferred that limestone is widely distributed under the shale and

sandstone unit.

More than seven gossan zones with several hundreds meters in diameter occur on the Ordovician shale and sandstone. These gossans contain highly concentrated zinc. Especially high zinc content is obtained from the samples of the gossan zone south of Ban Sam Lung. They normally range from 0.7 to 0.8 %, and the maximum value is 1.54 % from 5 m channel sample. The gossans of other zones commonly contain high Zinc content ranging from 0.2 to 0.3 %.

The ordinary geochemical survey and the MMI geochemical survey are revealed the anomalies around gossan zones. The following anomaly areas are delineated on the result of the geochemical survey.

- 1) The area around the points ranging from 200 to 500 of Line B and Line C
- 2) The gossan zone southeast of Ban Sam Lung
- 3) The area from the F-1000 on a gossan zone to Line E
- 4) The periphery area around the points ranging from 800 to 900 of Line D

As the result of 2-D analysis of the IP survey, the resistivity discontinuity is found along the north striking fault from Line A to Line C, and the low resistivity distributes at the east part of this discontinuity. The chargeability shows highest value near B-500 station, and the center of the high chargeability is shifting to C-300 station. Therefore the most significant area based on the result of the geophysical survey is an area around B-500 station, where the resistivity shows low value and the chargeability shows high value. It is interpreted that this IP anomaly is accompanied by a fault-related mineralization because it is situated at a periphery of the fault zone and very near from the gossan zone.

A wide low-resistivity zone along a fault extends from B-1000 station to C-1600 station, and a high-chargeability zone extends from D-1800 station to F-1800 station. A gossan zone occurs zone near C-1600 station between these two IP anomalies. The low resistivity zone, the gossan zone and the high chargeability zone continue to the direction of the fault. Therefore it may be also accompanied by a fault-related mineralization.

The promising areas led by the geochemical survey and the geophysical survey are as follows.

- 1) The area from a gossan zone to a fault, ranging from 300 to 600 stations of Line B and Line C. It overlaps with zinc anomaly, low-resistivity and IP high-chargeability zone.
- 2) The gossan zone and the high-chargeability zone east of Ban Sam Lung. Gossan contains high zinc content, and the zone overlaps with geochemical copper-lead-zinc MMI anomaly area. Here is also found a low-resistivity zone.

The characteristic of geochemistry and geophysical anomaly suggests that the fault-related mineralizations are expected in these areas.

1-3 I-4 Area and Southern I-4 Area

The Southern I-4 area is mainly underlain by the Devonian-Carboniferous sedimentary rocks.

The western part of the area is cut by a north striking fault, and the Permian limestone crops

out on the west side of the fault. The Devonian-Carboniferous rocks are complexly folded on outcrops, but the fold as a whole is a series of northeast trending syncline and anticline.

The floats with galena-barite veinlets are occasionally found in places in Huai Pu valley. The chemical composition of a galena-barite sample shows 615 ppm Pb and 140 ppm Zn. Some small quartz stockworks zones less than 10 meters wide in brecciated and silicified shale occur in the upper stream of Huai Pu valley, and the maximum value obtained by chemical analysis is 188 ppm Cu, 341 ppm Pb and 560 ppm Zn.

Two soil geochemical sampling lines were arranged on the ridges in Huai Pu valley. Some high values of Pb, Zn and Ba in soil are detected on black shale. These values are almost the same level as those in regional stream sediments geochemical samples of last year's survey.

The result of the geological survey and the geochemical survey indicate that the anomaly detected by regional stream sediments geochemical survey originates from barite-galena veinlets in black shale and/or quartz stockworks accompanied by brecciated and silicified shale. Only confined and low-grade samples floats of barite-galena veinlets have been found in the field survey, and quartz stockworks are very small scale. There is no discovery of other type mineralization in the area. Therefore there is a little possibility that an economic minable deposit exists in the Southern I-4 area.

The drill hole MJTM-4 in the I-4 area could encounter the mineralization extending from Nam Mae Kanai occurrence. The mineralized quartz veinlets at the depth ranging from 20 to 30 m corresponded to an extension of sulfide disseminating quartz veinlets with 12 m wide in the northernmost of the Nam Mae Kanai occurrence. The estimated width of mineralized zone from MJTM-4 to the occurrence ranges from 4 to 12 m, and the distance is about 100 m. It is inferred that the mineralization extends to the southeast side and to the deeper part. The estimated grade ranges from 19.8 to 135 g/t Ag, 310 to 1,000 ppm Cu, 0.89 to 8.15 % Pb, and more than 0.1 % Zn based on the chemical analysis of core samples, but all length of mineralized core is not analyzed.

Other two mineralized zones are observed at the 51 m depth and the depth ranging from 105 to 120 m. The former zone corresponds to the pyrite-galena disseminated silicified rock on Nam Mae Kanai occurrence by its similar characteristic of mineralization. Usually the grade is not high as a whole, but this zone frequently contains highly mineralized parts; for example 0.37 % Pb and 1.22 % Zn by 30 cm core sample.

Chapter 2 Recommendation for the Third Phase Survey

2-1 Dong Noi Area

- 1) Further drilling survey is necessary at the high chargeability zone in the central part of the Dong Noi area to make clear the detailed mineralization style and the extension of mineralization, and to confirm the reserve and grade.
- 2) Trenching is recommendable in the northwestern part of the area, where the zinc and lead geochemical anomaly overlaps with dolomitized limestone to confirm the existence of a promising host rocks for ore deposit.
- 3) The drilling survey is necessary at a low-resistivity and high chargeability target beneath the gossan zone in the southern part of the area to clarify the existing forms of mineralization.

2-2 Mae Kanai Area

The drilling survey is necessary at the area ranges from 300 station to 600 station of Line B and Line C and the gossan area southeast of Ban Sam Lung, extracted as the most promising areas, to clarify the type, scale and grade of its mineralization and the geologic structure.

2-3 I-4 Area

Further drilling is necessary to confirm the lateral extension and the depth of vein-type mineralization extending from Nam Mae Kanai occurrence.

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APPENDICES

Appendix 2 Observation of polished thin sections

| No. | Sample No. | Locality | Rock type | Ore minerals | | | | | | | Gang minerals | | | | | | | | | | | | | | | | | | |
|-----|-------------------------|-----------------------|--|--------------|--------|------------|--------------|-----------|-----------|--------------|---------------|--------|---------|--------|------------|-------------|---------|-----------|----------|--------------|-----------|---------------|---------|--------|------------|------------|--------|--------|--|
| | | | | Sulfide | | Oxide | Hydroxide | Sulfate | Carbonate | Silica | Silicate | | | | | | | | | | | | | | | | | | |
| | | | | Chalcopyrite | Pyrite | Pyrrhotite | Arsenopyrite | Magnetite | Hematite | Cryptomelane | Goethite | Barite | Calcite | Quartz | K-feldspar | Plagioclase | Biotite | Muscovite | Chlorite | Clay Mineral | Amphibole | Clinopyroxene | Epidote | Garnet | Cordierite | Tourmaline | Sphene | Zircon | |
| 1 | DM-03 | Dong Nai | Gossaneous rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | TRI-93 | Trench No.1(Dong Nai) | Brecciated limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | MKR-15 | Mae Ka Nai | Massive magnetite | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | MMR-19 | Mae Ka Nai | Brecciated silicified rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | MMR-32 | Mae Ka Nai | Gossaneous rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | NR-19 | Mae Ka Nai | Crystalline limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | JR-01 | South of J-4 | Quartz vein | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | MM-06 | South of J-4 | Silicified sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | M-4 | Huai Wak | Silicified sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | M-5 | Huai Wak | Silicified sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | M-6 | Huai Wak | Silicified sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | MJTM-1(80.50m~80.65m) | MJTM-1(Dong Nai) | Brecciated limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | MJTM-1(84.95m~84.92m) | MJTM-1(Dong Nai) | Brecciated limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | MJTM-1(99.40m~99.45m) | MJTM-1(Dong Nai) | Impure limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | MJTM-1(153.40m~153.45m) | MJTM-1(Dong Nai) | Brecciated argillaceous limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | MJTM-1(232.30m~232.35m) | MJTM-1(Dong Nai) | Peitic hornfels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | MJTM-1(236.50m~236.55m) | MJTM-1(Dong Nai) | Peitic hornfels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | MJTM-2(17.30m~17.35m) | MJTM-2(Dong Nai) | Skarnized limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | MJTM-2(39.80m~39.90m) | MJTM-2(Dong Nai) | Argillaceous limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | MJTM-2(70.50m~70.70m) | MJTM-2(Dong Nai) | Brecciated limestone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | MJTM-2(73.50m~73.65m) | MJTM-2(Dong Nai) | Meta sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | MJTM-2(121.35m~121.40m) | MJTM-2(Dong Nai) | Amphibole-garnet skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | MJTM-2(121.50m~121.70m) | MJTM-2(Dong Nai) | Magnetite skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | MJTM-2(308.00m~308.10m) | MJTM-2(Dong Nai) | Garnet skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | MJTM-2(320.60m~320.65m) | MJTM-2(Dong Nai) | Green skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | MJTM-3(15.40m~15.50m) | MJTM-3(Dong Nai) | Biotite hornfels/marble alternation | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | MJTM-3(20.20m~20.40m) | MJTM-3(Dong Nai) | Biotite hornfels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | MJTM-3(24.60m~24.70m) | MJTM-3(Dong Nai) | Biotite hornfels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | MJTM-3(68.90m~69.00m) | MJTM-3(Dong Nai) | Green skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | MJTM-3(104.70m) | MJTM-3(Dong Nai) | Meta sandstone | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | MJTM-3(113.70m~113.80m) | MJTM-3(Dong Nai) | Magnetite skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | MJTM-3(122.80m~122.90m) | MJTM-3(Dong Nai) | Brecciated quartz vein | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | MJTM-3(123.50m~123.60m) | MJTM-3(Dong Nai) | Alitic granite | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | MJTM-3(133.00m~133.10m) | MJTM-3(Dong Nai) | Biotite granite | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | MJTM-4(27.40m~27.50m) | MJTM-4(Dong Nai) | Silicified rock | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | MJTM-4(31.50m~31.60m) | MJTM-4(Dong Nai) | Silicified shale | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | MJTM-4(110.00m~110.10m) | MJTM-4(Dong Nai) | Black shale | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | MJTM-4(118.90m~118.95m) | MJTM-4(Dong Nai) | Black shale | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | MJTM-4(201.90m~202.00m) | MJTM-4(Dong Nai) | Brecciated shale with quartz network veins | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | MJTM-5(1.65m~1.75m) | MJTM-5(Dong Nai) | Epidote skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | MJTM-5(14.45m~14.50m) | MJTM-5(Dong Nai) | Calcarenous hornfels | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | MJTM-5(98.25m~98.40m) | MJTM-5(Dong Nai) | Clinopyroxene skarn | | | | | | | | | | | | | | | | | | | | | | | | | | |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(1/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fa % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|--------|--------|--------|--------|--------|--------|------|--------|------|--------|--------|--------|-------|--------|
| 1 DJS-01 | <5 | <2 | 96 | 240 | <5 | 33 | 4.54 | 30 | 0.08 | 5620 | 93 | 8 | <10 | 202 |
| 2 DJS-02 | <5 | <2 | 145 | 210 | <5 | 40 | 5.45 | 30 | 0.09 | 3560 | 96 | 2 | <10 | 214 |
| 3 DJS-03 | <5 | <2 | 188 | 230 | 0.5 | 49 | 5.33 | 40 | 0.10 | 3410 | 102 | 8 | <10 | 278 |
| 4 DJS-04 | <5 | <2 | 252 | 240 | 0.5 | 45 | 5.16 | 20 | 0.15 | 3800 | 112 | 6 | <10 | 243 |
| 5 DJS-05 | 5 | <2 | 228 | 220 | 0.5 | 50 | 5.25 | 30 | 0.12 | 4090 | 136 | 8 | <10 | 262 |
| 6 DJS-06 | 10 | <2 | 228 | 180 | 0.5 | 60 | 5.19 | 30 | 0.13 | 5260 | 150 | 6 | <10 | 266 |
| 7 DJS-07 | <5 | <2 | 158 | 370 | 0.5 | 41 | 5.12 | 20 | 0.12 | 5560 | 145 | 2 | <10 | 314 |
| 8 DJS-08 | <5 | <2 | 152 | 350 | 1 | 41 | 4.87 | 10 | 0.13 | 5840 | 132 | 4 | <10 | 362 |
| 9 DJS-09 | <5 | <2 | 154 | 330 | 1 | 42 | 4.81 | 20 | 0.09 | 6320 | 130 | 8 | <10 | 394 |
| 10 DJS-10 | <5 | <2 | 132 | 410 | 1.5 | 42 | 4.49 | 50 | 0.10 | 9050 | 116 | 2 | <10 | 430 |
| 11 DJS-11 | <5 | <2 | 172 | 230 | 1 | 60 | 5.20 | 40 | 0.08 | 3280 | 56 | 6 | <10 | 210 |
| 12 DJS-12 | <5 | <2 | 144 | 310 | 0.5 | 75 | 4.37 | 70 | 0.08 | 2150 | 62 | <2 | <10 | 136 |
| 13 DJS-13 | <5 | <2 | 130 | 160 | <5 | 58 | 5.67 | 50 | 0.08 | 1125 | 52 | 4 | <10 | 110 |
| 14 DJS-14 | <5 | <2 | 84 | 190 | <5 | 53 | 5.07 | 10 | 0.05 | 1545 | 54 | 2 | <10 | 106 |
| 15 DJS-15 | <5 | <2 | 184 | 160 | <5 | 42 | 5.03 | 20 | 0.07 | 1645 | 58 | <2 | <10 | 216 |
| 16 DJS-16 | <5 | <2 | 200 | 170 | 0.5 | 48 | 5.51 | 10 | 0.10 | 1740 | 72 | 2 | <10 | 316 |
| 17 DJS-17 | <5 | <2 | 190 | 350 | 0.5 | 41 | 5.03 | 10 | 0.13 | 1565 | 82 | 4 | <10 | 278 |
| 18 DJS-18 | <5 | <2 | 102 | 190 | <5 | 34 | 3.90 | 20 | 0.10 | 3490 | 82 | 2 | <10 | 174 |
| 19 DJS-19 | <5 | <2 | 72 | 130 | <5 | 26 | 3.00 | 10 | 0.14 | 1220 | 50 | <2 | <10 | 90 |
| 20 DKS-01 | <5 | <2 | 58 | 170 | <5 | 25 | 4.46 | 10 | 1.37 | 865 | 70 | <2 | <10 | 72 |
| 21 DKS-02 | <5 | <2 | 84 | 240 | <5 | 31 | 4.37 | <10 | 1.01 | 920 | 84 | 2 | <10 | 74 |
| 22 DKS-03 | <5 | <2 | 92 | 180 | <5 | 29 | 4.22 | <10 | 0.93 | 795 | 88 | <2 | <10 | 70 |
| 23 DKS-04 | <5 | <2 | 28 | 190 | <5 | 22 | 3.86 | 10 | 1.41 | 925 | 66 | <2 | <10 | 100 |
| 24 DKS-05 | <5 | <2 | 34 | 160 | <5 | 15 | 3.47 | 10 | 0.82 | 1215 | 76 | <2 | <10 | 104 |
| 25 DKS-06 | <5 | <2 | 50 | 200 | <5 | 16 | 4.13 | 10 | 0.71 | 1585 | 96 | <2 | <10 | 130 |
| 26 DKS-07 | <5 | <2 | 40 | 280 | <5 | 17 | 3.98 | 10 | 0.95 | 1665 | 84 | <2 | <10 | 143 |
| 27 DKS-08 | <5 | <2 | 44 | 170 | <5 | 22 | 4.03 | 10 | 0.98 | 1575 | 74 | <2 | <10 | 160 |
| 28 DKS-09 | <5 | <2 | 46 | 130 | <5 | 17 | 3.93 | 10 | 0.96 | 1725 | 80 | 2 | <10 | 218 |
| 29 DKS-10 | <5 | <2 | 52 | 130 | 0.5 | 15 | 3.73 | <10 | 0.89 | 2080 | 88 | <2 | <10 | 252 |
| 30 DKS-11 | <5 | <2 | 54 | 70 | <5 | 16 | 3.21 | 20 | 0.82 | 1540 | 90 | 2 | <10 | 240 |
| 31 DKS-12 | <5 | <2 | 178 | 320 | 2 | 29 | 4.32 | 10 | 0.82 | 8580 | 286 | 2 | <10 | 924 |
| 32 DKS-13 | <5 | <2 | 196 | 170 | 1.5 | 42 | 4.89 | 10 | 0.35 | 7090 | 306 | <2 | <10 | 954 |
| 33 DKS-14 | <5 | <2 | 160 | 550 | 2.5 | 34 | 4.72 | 50 | 0.38 | 6510 | 258 | 2 | <10 | 942 |
| 34 DKS-15 | <5 | <2 | 176 | 110 | <5 | 35 | 5.19 | 10 | 0.08 | 3540 | 96 | 2 | <10 | 184 |
| 35 DKS-16 | 5 | <2 | 102 | 170 | <5 | 23 | 4.58 | 20 | 0.06 | 5000 | 98 | 4 | <10 | 210 |
| 36 DKS-17 | <5 | <2 | 106 | 210 | <5 | 29 | 4.81 | 30 | 0.07 | 3410 | 96 | <2 | <10 | 224 |
| 37 DKS-18 | <5 | <2 | 66 | 120 | <5 | 32 | 4.58 | 90 | 0.06 | 1955 | 88 | 2 | <10 | 142 |
| 38 DKS-19 | <5 | <2 | 82 | 90 | <5 | 28 | 4.13 | 10 | 0.07 | 1455 | 76 | 2 | <10 | 90 |
| 39 DKS-20 | <5 | <2 | 58 | 130 | <5 | 32 | 4.99 | 20 | 0.13 | 1910 | 56 | <2 | <10 | 122 |
| 40 DKS-21 | <5 | <2 | 52 | 130 | <5 | 42 | 4.33 | 30 | 0.12 | 1295 | 52 | 4 | <10 | 114 |
| 41 DKS-22 | <5 | <2 | 118 | 130 | <5 | 43 | 4.52 | 10 | 0.12 | 1365 | 64 | 6 | <10 | 146 |
| 42 DKS-23 | 5 | <2 | 78 | 140 | <5 | 32 | 4.83 | 10 | 0.11 | 3080 | 86 | <2 | <10 | 170 |
| 43 DKS-24 | <5 | <2 | 88 | 120 | <5 | 28 | 4.87 | 10 | 0.13 | 3440 | 106 | <2 | <10 | 162 |
| 44 DKS-25 | <5 | <2 | 68 | 110 | <5 | 26 | 5.17 | <10 | 0.13 | 3440 | 92 | 2 | <10 | 122 |
| 45 DKS-26 | <5 | <2 | 64 | 140 | <5 | 27 | 5.18 | 20 | 0.13 | 3450 | 86 | 6 | <10 | 106 |
| 46 DKS-27 | <5 | <2 | 62 | 140 | <5 | 27 | 5.40 | 20 | 0.12 | 3140 | 86 | 6 | <10 | 112 |
| 47 DKS-28 | <5 | <2 | 66 | 130 | <5 | 27 | 5.62 | 20 | 0.11 | 3620 | 88 | 2 | <10 | 112 |
| 48 DKS-29 | <5 | <2 | 74 | 130 | <5 | 26 | 5.34 | 10 | 0.10 | 2800 | 100 | 2 | <10 | 94 |
| 49 DKS-30 | <5 | <2 | 64 | 130 | <5 | 23 | 4.82 | 20 | 0.11 | 2280 | 106 | 2 | <10 | 90 |
| 50 DKS-31 | <5 | <2 | 76 | 120 | <5 | 22 | 4.45 | 10 | 0.08 | 2290 | 106 | <2 | <10 | 90 |
| 51 DKS-32 | <5 | <2 | 74 | 130 | <5 | 26 | 4.65 | 10 | 0.09 | 3030 | 122 | <2 | <10 | 118 |
| 52 DKS-33 | <5 | <2 | 74 | 130 | <5 | 28 | 5.13 | 10 | 0.08 | 3480 | 110 | <2 | <10 | 142 |
| 53 DKS-34 | <5 | <2 | 86 | 200 | 0.5 | 29 | 4.76 | 30 | 0.11 | 5780 | 112 | 2 | <10 | 158 |
| 54 DKS-35 | <5 | <2 | 90 | 330 | <5 | 26 | 4.32 | 20 | 0.34 | 9040 | 142 | 4 | <10 | 172 |
| 55 DKS-36 | <5 | <2 | 78 | 110 | <5 | 20 | 3.29 | 30 | 0.11 | 2020 | 96 | 2 | <10 | 72 |
| 56 DKS-37 | <5 | <2 | 60 | 250 | 0.5 | 18 | 3.27 | 30 | 0.08 | 3420 | 96 | 4 | <10 | 66 |
| 57 DKS-38 | <5 | <2 | 94 | 80 | <5 | 29 | 3.34 | 10 | 0.11 | 750 | 50 | <2 | <10 | 66 |
| 58 DKS-39 | <5 | <2 | 60 | 200 | <5 | 33 | 3.67 | 20 | 0.15 | 2090 | 88 | 4 | <10 | 214 |
| 59 DKS-40 | <5 | <2 | 78 | 160 | <5 | 32 | 4.83 | 20 | 0.17 | 2890 | 94 | <2 | <10 | 188 |
| 60 DKS-41 | <5 | <2 | 92 | 150 | 0.5 | 35 | 5.11 | 10 | 0.27 | 2210 | 98 | 2 | <10 | 266 |
| 61 DKS-42 | <5 | <2 | 54 | 140 | 0.5 | 23 | 4.60 | 30 | 0.46 | 3890 | 76 | 2 | <10 | 206 |
| 62 DKS-43 | <5 | <2 | 82 | 210 | 1 | 46 | 4.99 | 10 | 0.72 | 6360 | 142 | <2 | <10 | 392 |
| 63 DKS-44 | <5 | <2 | 84 | 210 | 0.5 | 48 | 5.89 | 10 | 0.29 | 7470 | 228 | 4 | <10 | 326 |
| 64 DKS-45 | <5 | <2 | 76 | 190 | 0.5 | 35 | 5.66 | <10 | 0.13 | 6550 | 168 | 6 | <10 | 256 |
| 65 DKS-46 | <5 | <2 | 92 | 120 | <5 | 36 | 5.53 | 20 | 0.10 | 4630 | 136 | <2 | <10 | 228 |
| 66 DKS-47 | <5 | <2 | 108 | 130 | <5 | 35 | 5.72 | 10 | 0.08 | 4310 | 136 | 2 | <10 | 196 |
| 67 DKS-48 | <5 | <2 | 92 | 110 | <5 | 29 | 5.32 | <10 | 0.09 | 3990 | 112 | 10 | <10 | 158 |
| 68 DKS-49 | <5 | <2 | 112 | 130 | <5 | 26 | 5.46 | <10 | 0.11 | 4630 | 108 | 2 | <10 | 174 |
| 69 DKS-50 | <5 | <2 | 114 | 110 | <5 | 37 | 5.37 | 40 | 0.10 | 3720 | 122 | <2 | <10 | 168 |
| 70 DKS-51 | <5 | <2 | 78 | 150 | <5 | 17 | 4.35 | 10 | 0.09 | 4190 | 120 | 8 | <10 | 312 |
| 71 DKS-52 | <5 | <2 | 90 | 120 | <5 | 21 | 4.32 | <10 | 0.09 | 2320 | 106 | <2 | <10 | 290 |
| 72 DKS-53 | <5 | <2 | 82 | 100 | <5 | 22 | 4.57 | 10 | 0.10 | 2120 | 88 | <2 | <10 | 196 |
| 73 DKS-54 | <5 | <2 | 80 | 90 | <5 | 21 | 4.58 | <10 | 0.11 | 2420 | 80 | 6 | <10 | 154 |
| 74 DKS-55 | <5 | <2 | 80 | 140 | <5 | 24 | 4.56 | 10 | 0.12 | 3360 | 88 | <2 | <10 | 166 |
| 75 DKS-56 | <5 | <2 | 68 | 310 | 0.5 | 28 | 3.83 | 20 | 0.13 | 5750 | 148 | 2 | <10 | 302 |
| 76 DKS-57 | <5 | <2 | 74 | 220 | <5 | 23 | 3.49 | 20 | 0.36 | 2170 | 78 | <2 | <10 | 102 |
| 77 DKS-58 | <5 | <2 | 84 | 170 | <5 | 22 | 3.26 | 10 | 0.17 | 1790 | 90 | <2 | <10 | 102 |
| 78 DKS-59 | <5 | <2 | 92 | 140 | <5 | 23 | 3.59 | 10 | 0.11 | 2890 | 94 | <2 | <10 | 106 |
| 79 DKS-60 | 10 | <2 | 84 | 210 | 1.5 | 21 | 2.82 | <10 | 0.11 | 3390 | 198 | 2 | <10 | 568 |
| 80 DKS-61 | <5 | <2 | 192 | 300 | 4 | 32 | 5.13 | 20 | 0.16 | 7840 | 374 | 8 | <10 | 1100 |
| 81 DKS-62 | <5 | <2 | 188 | 580 | 4 | 32 | 5.06 | 60 | 0.24 | 8800 | 270 | 6 | <10 | 934 |
| 82 DKS-63 | <5 | <2 | 164 | 570 | 2 | 33 | 5.23 | 50 | 0.24 | 8450 | 210 | 6 | <10 | 700 |
| 83 DKS-64 | <5 | <2 | 168 | 520 | 2 | 31 | 5.40 | 50 | 0.14 | 8300 | 176 | 6 | <10 | 532 |
| 84 DKS-65 | <5 | <2 | 148 | 290 | 1 | 38 | 5.42 | 50 | 0.09 | 6800 | 124 | 6 | <10 | 362 |
| 85 DKS-66 | <5 | <2 | 148 | 270 | 1 | 36 | 5.42 | 50 | 0.09 | 7440 | 116 | 6 | <10 | 360 |
| 86 DKS-67 | <5 | <2 | 143 | 260 | 0.5 | 33 | 5.55 | 40 | 0.08 | 6170 | 110 | 6 | <10 | 302 |
| 87 DKS-68 | <5 | <2 | 152 | 330 | 0.5 | 53 | 5.51 | 40 | 0.08 | 4500 | 130 | 6 | <10 | 358 |
| 88 DKS-69 | <5 | <2 | 154 | 320 | 1.5 | 86 | 5.70 | 40 | 0.09 | 5110 | 133 | 6 | <10 | 458 |
| 89 DKS-70 | 10 | <2 | 119 | 520 | 1 | 82 | 5.73 | 70 | 0.13 | 4720 | 88 | 6 | <10 | 360 |
| 90 DKS-71 | <5 | <2 | 142 | 460 | 2 | 50 | 5.47 | 60 | 0.29 | 4940 | 114 | 8 | <10 | 434 |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(2/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 91 DKS-72 | <5 | <2 | 150 | 460 | 1 | 39 | 5.81 | 30 | 0.22 | 4220 | 102 | 8 | <10 | 408 |
| 92 DKS-73 | <5 | <2 | 154 | 550 | 1.5 | 39 | 6.45 | 60 | 0.20 | 5270 | 114 | 6 | <10 | 422 |
| 93 DKS-74 | <5 | <2 | 180 | 470 | 2.5 | 32 | 6.39 | 50 | 0.20 | 5270 | 166 | 6 | <10 | 598 |
| 94 DKS-75 | <5 | <2 | 174 | 460 | 2.5 | 37 | 5.43 | 60 | 0.36 | 4760 | 194 | 8 | <10 | 772 |
| 95 DKS-76 | <5 | <2 | 170 | 520 | 3.5 | 41 | 5.13 | 60 | 0.51 | 4970 | 212 | 4 | <10 | 718 |
| 96 DKS-77 | <5 | 0.2 | 232 | 270 | 2 | 32 | 4.60 | 30 | 1.55 | 2450 | 226 | 24 | <10 | 604 |
| 97 DKS-78 | <5 | 0.6 | 238 | 340 | 2.5 | 28 | 4.23 | 40 | 2.05 | 1920 | 314 | 28 | <10 | 710 |
| 98 DKS-79 | <5 | 1.4 | 294 | 180 | 5 | 25 | 4.33 | 30 | 2.39 | 2160 | 412 | 28 | <10 | 1120 |
| 99 DKS-80 | <5 | 2.6 | 390 | 460 | 12.5 | 23 | 5.21 | 70 | 1.60 | 2950 | 672 | 26 | <10 | 1835 |
| 100 DLS-11 | 10 | <2 | 194 | 330 | <5 | 60 | 5.32 | 30 | 0.15 | 4120 | 164 | <2 | <10 | 326 |
| 101 DLS-12 | <5 | <2 | 146 | 200 | <5 | 32 | 5.08 | 30 | 0.08 | 4360 | 116 | 2 | <10 | 262 |
| 102 DLS-13 | <5 | <2 | 114 | 180 | <5 | 26 | 5.02 | 30 | 0.06 | 5710 | 138 | <2 | <10 | 308 |
| 103 DLS-14 | <5 | <2 | 106 | 110 | <5 | 39 | 4.88 | 40 | 0.06 | 3100 | 122 | 8 | <10 | 212 |
| 104 DLS-15 | <5 | <2 | 100 | 60 | <5 | 36 | 4.73 | 10 | 0.05 | 1010 | 88 | <2 | <10 | 128 |
| 105 DLS-16 | <5 | <2 | 142 | 70 | <5 | 63 | 5.59 | <10 | 0.06 | 875 | 70 | <2 | <10 | 112 |
| 106 DLS-17 | <5 | <2 | 128 | 100 | <5 | 66 | 6.11 | 20 | 0.05 | 1175 | 50 | 6 | <10 | 96 |
| 107 DLS-18 | 5 | <2 | 74 | 160 | <5 | 57 | 5.53 | <10 | 0.06 | 795 | 36 | 4 | <10 | 66 |
| 108 DLS-19 | <5 | <2 | 50 | 100 | <5 | 63 | 5.54 | 10 | 0.08 | 495 | 28 | 2 | <10 | 52 |
| 109 DLS-20 | <5 | <2 | 58 | 100 | <5 | 84 | 5.54 | 20 | 0.08 | 430 | 26 | 4 | <10 | 48 |
| 110 DLS-21 | <5 | <2 | 64 | 170 | <5 | 48 | 3.92 | 20 | 0.08 | 1025 | 28 | 2 | <10 | 40 |
| 111 DLS-22 | <5 | <2 | 92 | 120 | <5 | 38 | 2.77 | 20 | 0.10 | 1100 | 38 | <2 | <10 | 44 |
| 112 DLS-23 | <5 | <2 | 88 | 70 | <5 | 32 | 2.93 | 10 | 0.06 | 320 | 44 | 2 | <10 | 84 |
| 113 DLS-24 | <5 | <2 | 118 | 170 | <5 | 31 | 4.40 | 10 | 0.17 | 1705 | 86 | 4 | <10 | 156 |
| 114 DLS-25 | <5 | <2 | 72 | 210 | <5 | 27 | 3.65 | 30 | 0.10 | 1685 | 96 | 6 | <10 | 128 |
| 115 DLS-26 | <5 | <2 | 80 | 260 | <5 | 35 | 3.59 | 30 | 0.09 | 1795 | 174 | <2 | <10 | 182 |
| 116 DLS-27 | 15 | <2 | 90 | 340 | <5 | 42 | 4.02 | 20 | 0.11 | 2520 | 220 | 6 | <10 | 266 |
| 117 DLS-28 | 10 | <2 | 148 | 340 | <5 | 40 | 5.05 | 20 | 0.13 | 3730 | 236 | 12 | <10 | 520 |
| 118 DLS-29 | <5 | <2 | 152 | 390 | 0.5 | 33 | 5.52 | 10 | 0.20 | 4850 | 170 | 8 | <10 | 334 |
| 119 DLS-30 | <5 | <2 | 164 | 420 | 2.5 | 44 | 5.76 | 20 | 0.27 | 9220 | 284 | 10 | <10 | 694 |
| 120 DLS-31 | <5 | <2 | 146 | 290 | 1.5 | 39 | 5.45 | 10 | 0.20 | 7150 | 236 | 6 | <10 | 506 |
| 121 DLS-32 | 5 | <2 | 124 | 280 | 1 | 31 | 5.13 | 10 | 0.18 | 6910 | 214 | 6 | <10 | 494 |
| 122 DLS-33 | <5 | <2 | 126 | 290 | 0.5 | 31 | 5.10 | 10 | 0.17 | 6850 | 204 | 2 | <10 | 448 |
| 123 DLS-34 | <5 | <2 | 120 | 330 | 1 | 33 | 5.06 | 30 | 0.20 | 7730 | 198 | 6 | <10 | 452 |
| 124 DLS-35 | <5 | <2 | 78 | 500 | 3 | 47 | 4.25 | 50 | 0.23 | 6610 | 266 | 10 | <10 | 648 |
| 125 DLS-36 | <5 | <2 | 94 | 430 | 0.5 | 36 | 5.61 | 20 | 0.23 | 6080 | 130 | 4 | <10 | 336 |
| 126 DLS-37 | <5 | <2 | 89 | 640 | 0.5 | 25 | 5.30 | 10 | 0.39 | 5370 | 158 | 6 | <10 | 332 |
| 127 DLS-38 | <5 | <2 | 76 | 1380 | 0.5 | 16 | 5.02 | 10 | 0.70 | 3750 | 172 | 6 | <10 | 258 |
| 128 DLS-39 | 10 | <2 | 58 | 370 | <5 | 26 | 3.71 | 20 | 0.38 | 1665 | 84 | <2 | <10 | 88 |
| 129 DLS-40 | <5 | <2 | 38 | 260 | <5 | 22 | 3.52 | 10 | 0.73 | 1005 | 54 | 2 | <10 | 80 |
| 130 DLS-41 | <5 | <2 | 24 | 250 | <5 | 15 | 3.10 | 20 | 0.83 | 965 | 42 | 2 | <10 | 80 |
| 131 DMS-01 | <5 | <2 | 54 | 340 | 1.5 | 32 | 4.04 | 30 | 0.83 | 8560 | 932 | 2 | <10 | 3380 |
| 132 DMS-02 | 10 | <2 | 66 | 480 | 4 | 34 | 3.20 | 50 | 0.90 | >10000 | 474 | 6 | <10 | 3350 |
| 133 DMS-03 | <5 | 0.2 | 66 | 780 | 4 | 29 | 4.76 | 20 | 0.30 | >10000 | 494 | 10 | <10 | 1550 |
| 134 DMS-04 | <5 | 0.6 | 80 | 530 | 5.5 | 42 | 5.60 | 40 | 0.28 | >10000 | 1485 | 8 | <10 | 2010 |
| 135 DMS-05 | <5 | 1 | 76 | 840 | 5.5 | 47 | 6.03 | 70 | 0.41 | >10000 | 2190 | 6 | <10 | 2140 |
| 136 DMS-06 | <5 | 0.4 | 80 | 590 | 1.5 | 22 | 4.46 | 50 | 0.13 | >10000 | 658 | 4 | <10 | 1150 |
| 137 DMS-07 | <5 | 0.2 | 78 | 420 | 1.5 | 27 | 4.27 | 40 | 0.12 | >10000 | 462 | 2 | <10 | 962 |
| 138 DMS-08 | <5 | 0.2 | 102 | 530 | 2 | 44 | 4.82 | 40 | 0.14 | >10000 | 524 | 6 | <10 | 986 |
| 139 DMS-09 | <5 | <2 | 74 | 400 | 0.5 | 22 | 4.50 | 20 | 0.10 | >10000 | 292 | 4 | <10 | 592 |
| 140 DMS-10 | <5 | <2 | 62 | 170 | <5 | 14 | 3.50 | 10 | 0.10 | 5310 | 168 | 2 | <10 | 260 |
| 141 DMS-11 | <5 | <2 | 78 | 100 | <5 | 22 | 3.81 | 30 | 0.10 | 3380 | 266 | <2 | <10 | 382 |
| 142 DMS-12 | <5 | <2 | 70 | 170 | <5 | 33 | 3.66 | 30 | 0.14 | 3200 | 328 | 2 | <10 | 354 |
| 143 DMS-13 | <5 | <2 | 58 | 180 | <5 | 25 | 4.22 | 10 | 0.28 | 2240 | 354 | <2 | <10 | 314 |
| 144 DMS-14 | <5 | <2 | 48 | 150 | <5 | 16 | 3.81 | 10 | 0.17 | 2380 | 240 | 2 | <10 | 204 |
| 145 DMS-15 | <5 | <2 | 40 | 170 | <5 | 24 | 3.44 | 40 | 0.10 | 2960 | 222 | <2 | <10 | 126 |
| 146 DMS-16 | <5 | <2 | 46 | 140 | <5 | 20 | 4.05 | 10 | 0.09 | 1750 | 202 | <2 | <10 | 150 |
| 147 DMS-17 | <5 | 0.2 | 192 | 580 | 5.5 | 48 | 5.14 | 10 | 0.79 | >10000 | 550 | 6 | <10 | 2030 |
| 148 DMS-18 | <5 | <2 | 112 | 680 | 2.5 | 38 | 4.99 | 10 | 0.22 | >10000 | 512 | 6 | <10 | 1315 |
| 149 DMS-19 | <5 | <2 | 82 | 380 | <5 | 52 | 4.85 | 10 | 0.20 | 6190 | 464 | 2 | <10 | 952 |
| 150 DMS-20 | <5 | <2 | 70 | 380 | <5 | 45 | 4.60 | 10 | 0.24 | 4150 | 254 | 6 | <10 | 652 |
| 151 DMS-21 | <5 | <2 | 60 | 330 | <5 | 40 | 4.77 | 20 | 0.27 | 2890 | 168 | 6 | <10 | 454 |
| 152 DMS-22 | <5 | <2 | 82 | 430 | <5 | 36 | 4.62 | 10 | 0.25 | 3140 | 116 | 2 | <10 | 340 |
| 153 DMS-23 | 15 | <2 | 70 | 330 | <5 | 28 | 4.16 | <10 | 0.24 | 2290 | 98 | 2 | <10 | 236 |
| 154 DMS-24 | <5 | <2 | 72 | 300 | <5 | 25 | 3.61 | <10 | 0.20 | 2130 | 78 | 2 | <10 | 156 |
| 155 DMS-25 | <5 | <2 | 74 | 390 | <5 | 25 | 3.97 | 20 | 0.37 | 1775 | 72 | 2 | <10 | 162 |
| 156 DMS-26 | <5 | <2 | 54 | 210 | <5 | 24 | 4.13 | <10 | 0.69 | 1430 | 72 | 2 | <10 | 116 |
| 157 DMS-27 | <5 | <2 | 30 | 290 | <5 | 19 | 4.02 | 10 | 1.29 | 1150 | 76 | <2 | <10 | 116 |
| 158 DMS-28 | <5 | <2 | 28 | 180 | <5 | 18 | 3.57 | 10 | 1.30 | 825 | 90 | 4 | <10 | 86 |
| 159 DMS-29 | <5 | <2 | 22 | 200 | <5 | 17 | 3.92 | 10 | 1.64 | 935 | 58 | 2 | <10 | 92 |
| 160 DMS-30 | <5 | <2 | 26 | 230 | <5 | 21 | 3.83 | <10 | 1.70 | 855 | 48 | 4 | <10 | 92 |
| 161 DMS-47 | <5 | <2 | 112 | 290 | <5 | 31 | 4.04 | 10 | 0.10 | 3060 | 96 | 4 | <10 | 186 |
| 162 DMS-48 | <5 | <2 | 134 | 160 | <5 | 35 | 4.66 | 10 | 0.10 | 3060 | 118 | 2 | <10 | 236 |
| 163 DMS-49 | 15 | <2 | 88 | 190 | <5 | 33 | 4.11 | 30 | 0.11 | 3110 | 96 | 6 | <10 | 182 |
| 164 DMS-50 | <5 | <2 | 70 | 120 | <5 | 31 | 3.46 | 10 | 0.21 | 1135 | 46 | 6 | <10 | 96 |
| 165 DMS-51 | <5 | <2 | 114 | 210 | <5 | 35 | 4.47 | 30 | 0.09 | 3650 | 116 | 4 | <10 | 186 |
| 166 DMS-52 | <5 | <2 | 122 | 200 | <5 | 42 | 4.73 | 20 | 0.10 | 4170 | 108 | 4 | <10 | 256 |
| 167 DMS-53 | 10 | <2 | 114 | 190 | <5 | 45 | 4.76 | 20 | 0.13 | 3190 | 66 | 6 | <10 | 172 |
| 168 DMS-54 | 5 | <2 | 136 | 180 | <5 | 54 | 4.42 | 10 | 0.10 | 2860 | 74 | 4 | <10 | 194 |
| 169 DMS-55 | 15 | <2 | 136 | 320 | <5 | 69 | 4.48 | 40 | 0.12 | 2590 | 88 | 2 | <10 | 166 |
| 170 DMS-56 | 15 | <2 | 178 | 320 | <5 | 54 | 3.74 | 40 | 0.11 | 3090 | 256 | 2 | <10 | 212 |
| 171 DMS-57 | 15 | <2 | 174 | 320 | <5 | 115 | 4.77 | 30 | 0.13 | 3010 | 108 | 2 | <10 | 198 |
| 172 DMS-58 | <5 | <2 | 224 | 430 | 0.5 | 45 | 3.76 | 40 | 0.12 | 3870 | 114 | 6 | <10 | 250 |
| 173 DMS-59 | 35 | <2 | 168 | 300 | <5 | 103 | 5.42 | 20 | 0.10 | 3210 | 130 | 6 | <10 | 222 |
| 174 DMS-60 | 30 | <2 | 188 | 220 | <5 | 81 | 5.44 | 30 | 0.08 | 3450 | 126 | 2 | <10 | 242 |
| 175 DMS-61 | 20 | <2 | 182 | 230 | <5 | 52 | 5.48 | 10 | 0.06 | 4590 | 128 | 6 | <10 | 278 |
| 176 DMS-62 | 15 | <2 | 178 | 230 | <5 | 39 | 5.19 | 30 | 0.08 | 4920 | 132 | 4 | <10 | 274 |
| 177 DMS-63 | 15 | <2 | 120 | 250 | <5 | 26 | 5.20 | 40 | 0.09 | 5910 | 102 | 4 | <10 | 272 |
| 178 DMS-64 | <5 | <2 | 96 | 270 | <5 | 17 | 5.18 | 30 | 0.10 | 7570 | 90 | 2 | <10 | 202 |
| 179 DMS-65 | 45 | <2 | 190 | 220 | <5 | 124 | 6.22 | 20 | 0.11 | 3090 | 122 | 2 | <10 | 260 |
| 180 DMS-66 | 35 | <2 | 166 | 410 | <5 | 112 | 5.29 | 30 | 0.12 | 2730 | 118 | 6 | <10 | 228 |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(3/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fa % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 181 DMS-67 | 35 | <2 | 182 | 400 | <5 | 91 | 5.32 | 30 | 0.11 | 2320 | 126 | <2 | <10 | 210 |
| 182 DMS-68 | 20 | <2 | 210 | 340 | <5 | 73 | 5.60 | 40 | 0.12 | 2200 | 138 | 6 | <10 | 234 |
| 183 DMS-69 | 10 | <2 | 194 | 370 | 0.5 | 61 | 5.05 | 30 | 0.15 | 5350 | 204 | 2 | <10 | 382 |
| 184 DMS-70 | 15 | <2 | 170 | 190 | <5 | 55 | 5.16 | 30 | 0.06 | 3730 | 114 | <2 | <10 | 248 |
| 185 DMS-71 | 10 | <2 | 145 | 260 | <5 | 31 | 4.82 | 20 | 0.09 | 5270 | 114 | 4 | <10 | 265 |
| 186 DMS-72 | 15 | <2 | 156 | 190 | <5 | 38 | 5.54 | 40 | 0.09 | 5730 | 134 | <2 | <10 | 358 |
| 187 DMS-73 | <5 | <2 | 132 | 240 | <5 | 26 | 5.17 | 20 | 0.09 | 6350 | 128 | <2 | <10 | 355 |
| 188 DMS-74 | <5 | <2 | 124 | 200 | <5 | 18 | 5.54 | 40 | 0.08 | 6010 | 108 | <2 | <10 | 322 |
| 189 DMS-75 | 25 | <2 | 202 | 260 | <5 | 69 | 5.39 | 20 | 0.08 | 4130 | 128 | 2 | <10 | 250 |
| 190 DMS-76 | <5 | <2 | 162 | 210 | <5 | 36 | 5.05 | 30 | 0.07 | 5000 | 114 | <2 | <10 | 268 |
| 191 DMS-77 | 10 | <2 | 148 | 200 | <5 | 29 | 5.25 | 10 | 0.08 | 5860 | 118 | <2 | <10 | 310 |
| 192 DMS-78 | 5 | <2 | 184 | 200 | <5 | 33 | 5.93 | 40 | 0.08 | 6080 | 146 | <2 | <10 | 386 |
| 193 DMS-79 | <5 | <2 | 130 | 220 | <5 | 20 | 5.22 | 30 | 0.09 | 5040 | 108 | <2 | <10 | 334 |
| 194 DMS-80 | 35 | <2 | 188 | 280 | <5 | 130 | 6.01 | 30 | 0.07 | 2560 | 122 | <2 | <10 | 195 |
| 195 DMS-81 | 20 | <2 | 168 | 270 | <5 | 123 | 5.31 | 10 | 0.09 | 2200 | 104 | <2 | <10 | 164 |
| 196 DMS-82 | 10 | <2 | 200 | 320 | <5 | 98 | 4.60 | 30 | 0.12 | 2340 | 132 | <2 | <10 | 166 |
| 197 DMS-83 | 10 | <2 | 244 | 380 | 0.5 | 82 | 5.47 | 30 | 0.14 | 2690 | 154 | 2 | <10 | 198 |
| 198 DMS-84 | 5 | <2 | 238 | 480 | 0.5 | 72 | 5.15 | 20 | 0.19 | 5720 | 178 | <2 | <10 | 312 |
| 199 DMS-85 | <5 | <2 | 242 | 240 | 0.5 | 44 | 3.72 | 10 | 0.09 | 2060 | 162 | 6 | <10 | 288 |
| 200 DMS-86 | <5 | <2 | 102 | 240 | <5 | 38 | 3.33 | 30 | 0.09 | 1740 | 126 | <2 | <10 | 148 |
| 201 DMS-87 | <5 | <2 | 138 | 220 | <5 | 46 | 4.67 | 30 | 0.08 | 1910 | 356 | 4 | <10 | 260 |
| 202 DMS-88 | <5 | <2 | 90 | 190 | <5 | 47 | 4.85 | 10 | 0.12 | 1660 | 346 | 2 | <10 | 278 |
| 203 DMS-89 | <5 | <2 | 72 | 310 | <5 | 59 | 4.45 | <10 | 0.10 | 1930 | 510 | <2 | <10 | 320 |
| 204 DMS-90 | <5 | <2 | 70 | 160 | <5 | 49 | 4.58 | <10 | 0.08 | 1595 | 298 | <2 | <10 | 180 |
| 205 DMS-91 | 5 | <2 | 62 | 150 | <5 | 29 | 3.98 | 30 | 0.07 | 2250 | 120 | <2 | <10 | 108 |
| 206 DMS-92 | <5 | <2 | 56 | 160 | <5 | 39 | 4.19 | 10 | 0.08 | 1770 | 90 | <2 | <10 | 142 |
| 207 DMS-93 | <5 | <2 | 54 | 190 | <5 | 40 | 3.38 | 20 | 0.09 | 2320 | 78 | <2 | <10 | 196 |
| 208 DMS-94 | <5 | <2 | 69 | 160 | <5 | 31 | 3.45 | 30 | 0.12 | 2900 | 112 | <2 | <10 | 198 |
| 209 DMS-95 | 10 | <2 | 78 | 120 | <5 | 27 | 4.47 | 90 | 0.10 | 3150 | 114 | <2 | <10 | 148 |
| 210 DMS-96 | <5 | <2 | 66 | 110 | <5 | 28 | 4.98 | 20 | 0.09 | 3460 | 128 | <2 | <10 | 142 |
| 211 DMS-97 | <5 | <2 | 68 | 140 | <5 | 37 | 5.12 | 10 | 0.07 | 4010 | 132 | <2 | <10 | 166 |
| 212 DMS-98 | <5 | <2 | 70 | 160 | <5 | 33 | 5.01 | 20 | 0.11 | 4930 | 126 | <2 | <10 | 202 |
| 213 DMS-99 | <5 | <2 | 88 | 160 | <5 | 36 | 5.46 | 30 | 0.11 | 5600 | 156 | <2 | <10 | 240 |
| 214 DMS-100 | <5 | <2 | 96 | 220 | 0.5 | 33 | 4.73 | 30 | 0.13 | 5820 | 158 | <2 | <10 | 276 |
| 215 DMS-101 | <5 | <2 | 118 | 230 | <5 | 37 | 5.12 | 30 | 0.15 | 7080 | 166 | <2 | <10 | 276 |
| 216 DMS-102 | 5 | <2 | 56 | 200 | <5 | 50 | 3.98 | 30 | 0.08 | 775 | 64 | <2 | <10 | 136 |
| 217 DMS-103 | <5 | <2 | 66 | 210 | <5 | 38 | 4.05 | 30 | 0.09 | 2120 | 82 | <2 | <10 | 100 |
| 218 DMS-104 | <5 | <2 | 64 | 150 | <5 | 33 | 4.23 | 10 | 0.08 | 1895 | 106 | <2 | <10 | 92 |
| 219 DMS-105 | 10 | <2 | 62 | 210 | <5 | 41 | 4.27 | 10 | 0.09 | 2490 | 254 | <2 | <10 | 170 |
| 220 DMS-106 | <5 | <2 | 88 | 300 | <5 | 51 | 4.89 | <10 | 0.14 | 2970 | 270 | <2 | <10 | 314 |
| 221 DMS-107 | <5 | <2 | 108 | 300 | 0.5 | 41 | 4.83 | 10 | 0.23 | 4720 | 196 | 2 | <10 | 474 |
| 222 DMS-108 | <5 | <2 | 94 | 270 | 0.5 | 38 | 4.57 | 10 | 0.20 | 4640 | 164 | 2 | <10 | 384 |
| 223 DMS-109 | <5 | <2 | 82 | 230 | <5 | 40 | 4.81 | 10 | 0.14 | 4450 | 136 | <2 | <10 | 290 |
| 224 DMS-110 | <5 | <2 | 82 | 190 | <5 | 36 | 5.22 | 10 | 0.14 | 4560 | 134 | 2 | <10 | 258 |
| 225 DMS-111 | <5 | <2 | 64 | 210 | <5 | 26 | 4.46 | 10 | 0.10 | 4440 | 134 | 2 | <10 | 224 |
| 226 DMS-112 | <5 | <2 | 56 | 230 | <5 | 26 | 3.96 | 10 | 0.11 | 4160 | 122 | <2 | <10 | 208 |
| 227 DMS-113 | <5 | <2 | 68 | 200 | <5 | 30 | 4.43 | 20 | 0.12 | 3990 | 134 | <2 | <10 | 206 |
| 228 DMS-114 | <5 | <2 | 64 | 190 | 0.5 | 31 | 4.05 | 10 | 0.11 | 4530 | 130 | <2 | <10 | 196 |
| 229 DMS-115 | <5 | <2 | 60 | 260 | 1 | 31 | 4.76 | 30 | 0.13 | 7390 | 106 | <2 | <10 | 236 |
| 230 DMS-116 | <5 | <2 | 60 | 230 | 0.5 | 27 | 5.33 | 20 | 0.18 | 6630 | 104 | <2 | <10 | 228 |
| 231 DMS-117 | <5 | <2 | 62 | 270 | 0.5 | 24 | 5.00 | 20 | 0.24 | 6360 | 118 | <2 | <10 | 202 |
| 232 DMS-118 | <5 | <2 | 74 | 310 | 0.5 | 27 | 4.78 | 10 | 0.22 | 7480 | 174 | <2 | <10 | 254 |
| 233 DMS-119 | <5 | <2 | 94 | 230 | <5 | 39 | 3.97 | 10 | 0.18 | 4120 | 134 | <2 | <10 | 264 |
| 234 DMS-120 | <5 | <2 | 52 | 220 | <5 | 24 | 2.80 | 10 | 0.25 | 1385 | 150 | <2 | <10 | 164 |
| 235 DMS-121 | <5 | <2 | 26 | 920 | <5 | 23 | 4.10 | <10 | 1.33 | 1910 | 102 | <2 | <10 | 106 |
| 236 DMS-122 | <5 | <2 | 80 | 160 | <5 | 33 | 3.66 | 20 | 0.14 | 1525 | 50 | <2 | <10 | 98 |
| 237 DMS-123 | <5 | <2 | 74 | 210 | 0.5 | 21 | 4.54 | 10 | 0.08 | 6270 | 122 | 2 | <10 | 226 |
| 238 DMS-124 | <5 | <2 | 104 | 160 | <5 | 24 | 5.35 | 30 | 0.07 | 5400 | 126 | <2 | <10 | 226 |
| 239 DMS-125 | <5 | <2 | 100 | 140 | <5 | 23 | 4.81 | <10 | 0.08 | 4880 | 110 | <2 | <10 | 192 |
| 240 DMS-126 | <5 | <2 | 126 | 120 | <5 | 27 | 4.81 | 20 | 0.09 | 3450 | 98 | 2 | <10 | 214 |
| 241 DMS-127 | <5 | <2 | 86 | 190 | <5 | 17 | 4.49 | 30 | 0.09 | 4670 | 90 | 2 | <10 | 184 |
| 242 DMS-128 | <5 | <2 | 78 | 300 | 0.5 | 14 | 5.31 | 30 | 0.16 | >10000 | 78 | 2 | <10 | 256 |
| 243 DMS-129 | <5 | <2 | 76 | 390 | 0.5 | 21 | 4.98 | 40 | 0.26 | >10000 | 98 | <2 | <10 | 262 |
| 244 DMS-130 | 10 | <2 | 88 | 240 | 0.5 | 28 | 4.78 | 10 | 0.22 | 8390 | 92 | <2 | <10 | 246 |
| 245 DMS-131 | <5 | <2 | 88 | 240 | 0.5 | 20 | 4.70 | 20 | 0.15 | 7150 | 104 | <2 | <10 | 226 |
| 246 DMS-132 | <5 | <2 | 74 | 250 | 0.5 | 18 | 4.91 | 20 | 0.37 | 7460 | 110 | <2 | <10 | 244 |
| 247 DMS-133 | <5 | <2 | 110 | 140 | <5 | 23 | 5.00 | 30 | 0.09 | 5360 | 118 | <2 | <10 | 242 |
| 248 DMS-134 | <5 | <2 | 116 | 180 | <5 | 24 | 5.37 | 30 | 0.10 | 5320 | 102 | 2 | <10 | 212 |
| 249 DMS-135 | 5 | <2 | 148 | 210 | 0.5 | 34 | 5.33 | 20 | 0.10 | 5970 | 82 | <2 | <10 | 202 |
| 250 DMS-136 | <5 | <2 | 190 | 220 | <5 | 38 | 5.13 | 20 | 0.06 | 4160 | 98 | 6 | <10 | 170 |
| 251 DMS-137 | <5 | <2 | 148 | 160 | <5 | 41 | 4.94 | <10 | 0.06 | 3030 | 76 | <2 | <10 | 118 |
| 252 DMS-138 | <5 | <2 | 102 | 140 | <5 | 33 | 4.47 | 10 | 0.06 | 3260 | 54 | <2 | <10 | 74 |
| 253 DMS-139 | <5 | <2 | 80 | 80 | <5 | 27 | 3.48 | 10 | 0.05 | 1065 | 38 | 2 | <10 | 52 |
| 254 DMS-140 | <5 | <2 | 92 | 90 | <5 | 25 | 2.90 | 10 | 0.03 | 695 | 40 | <2 | <10 | 84 |
| 255 DMS-141 | 5 | <2 | 210 | 320 | 1 | 37 | 4.49 | 10 | 0.10 | 3250 | 154 | 2 | <10 | 416 |
| 256 DMS-142 | <5 | <2 | 276 | 600 | 2 | 31 | 5.23 | 10 | 0.26 | 5070 | 106 | 2 | <10 | 490 |
| 257 DNS-01 | <5 | 7.8 | 162 | 390 | 2.5 | 122 | 9.80 | 20 | 1.85 | 6750 | 3760 | 18 | <10 | 730 |
| 258 DNS-02 | <5 | 5.8 | 114 | 420 | 2.5 | 92 | 8.92 | 30 | 1.34 | 6070 | 3830 | 14 | <10 | 758 |
| 259 DNS-03 | <5 | 5.8 | 110 | 470 | 3 | 137 | 10.80 | 20 | 1.05 | 8220 | 2940 | 26 | <10 | 722 |
| 260 DNS-04 | <5 | 6.4 | 96 | 880 | 3 | 109 | 10.70 | 30 | 1.57 | 7690 | 1855 | 30 | <10 | 636 |
| 261 DNS-05 | <5 | 4.2 | 188 | 1120 | 4.5 | 604 | 8.44 | 100 | 3.07 | 5910 | 780 | 42 | <10 | 1195 |
| 262 DNS-06 | <5 | 4.6 | 122 | 1130 | 2 | 43 | 11.00 | 80 | 1.32 | 7770 | 1945 | 28 | <10 | 636 |
| 263 DNS-07 | <5 | 4 | 100 | 3710 | 2 | 25 | 7.23 | 160 | 6.70 | 4720 | 1210 | 14 | <10 | 588 |
| 264 DNS-08 | <5 | 4.2 | 106 | 1320 | 5 | 35 | 10.00 | 170 | 2.37 | 6790 | 1435 | 22 | <10 | 968 |
| 265 DNS-09 | <5 | 2.2 | 134 | 880 | 7.5 | 42 | 8.47 | 70 | 0.95 | 7380 | 1410 | 22 | <10 | 1030 |
| 266 DNS-10 | <5 | 0.6 | 128 | 430 | 1.5 | 30 | 5.42 | 30 | 1.20 | 2950 | 295 | 8 | <10 | 412 |
| 267 DNS-11 | <5 | 0.6 | 186 | 480 | 2 | 28 | 5.06 | 40 | 1.69 | 3500 | 234 | 12 | <10 | 576 |
| 268 DNS-12 | <5 | 0.2 | 234 | 510 | 3 | 29 | 4.88 | 20 | 2.55 | 3140 | 178 | 10 | <10 | 648 |
| 269 DNS-13 | <5 | 0.2 | 404 | 900 | 9.5 | 31 | 5.11 | 20 | 1.79 | 7260 | 260 | 16 | <10 | 1265 |
| 270 DNS-14 | <5 | 1.8 | 82 | 270 | 5.5 | 45 | 6.96 | 50 | 1.04 | 5350 | 1270 | 18 | <10 | 1165 |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(4/6)

| SAMPLE DESCRIPTION | As ppb | Ag ppm | As ppm | Ba ppm | Od ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 271 DNS-15 | <5 | 18 | 76 | 270 | 6 | 34 | 6.97 | 50 | 1.23 | 5300 | 1010 | 14 | <10 | 1235 |
| 272 DNS-16 | <5 | 18 | 92 | 290 | 7.5 | 40 | 6.64 | 50 | 1.86 | 5710 | 1020 | 14 | <10 | 1610 |
| 273 DNS-17 | <5 | 12 | 126 | 620 | 9.5 | 168 | 10.40 | 30 | 0.46 | 6760 | 700 | 10 | <10 | 748 |
| 274 DNS-18 | <5 | 3 | 148 | 610 | 8.5 | 63 | 9.07 | 40 | 0.72 | 7610 | 4520 | 18 | <10 | 932 |
| 275 DNS-19 | <5 | 36 | 166 | 460 | 5 | 61 | 9.75 | 20 | 0.44 | 6840 | 3570 | 20 | <10 | 738 |
| 276 DNS-20 | <5 | 18 | 146 | 510 | 3 | 53 | 8.13 | 30 | 0.35 | 5330 | 1890 | 18 | <10 | 604 |
| 277 DNS-21 | <5 | 18 | 182 | 650 | 3 | 45 | 8.20 | 30 | 0.35 | 5480 | 1770 | 10 | <10 | 582 |
| 278 DNS-22 | <5 | 4.6 | 170 | 450 | 13 | 77 | 10.30 | 40 | 0.55 | 7660 | 2350 | 22 | <10 | 818 |
| 279 DNS-23 | <5 | 1.6 | 139 | 330 | 11 | 48 | 7.53 | 30 | 0.53 | 6450 | 1455 | 14 | <10 | 920 |
| 280 DNS-24 | <5 | 4.2 | 160 | 270 | 7 | 38 | 8.61 | 70 | 0.84 | 6750 | 2700 | 20 | <10 | 888 |
| 281 DNS-25 | <5 | 1.4 | 114 | 260 | 4.5 | 37 | 6.80 | 30 | 0.79 | 5280 | 1405 | 12 | <10 | 706 |
| 282 DNS-26 | <5 | 1.2 | 148 | 360 | 4.5 | 57 | 8.16 | 60 | 0.58 | 5560 | 1060 | 12 | <10 | 956 |
| 283 DNS-27 | <5 | 1.4 | 214 | 490 | 7 | 45 | 7.73 | 30 | 0.75 | 5830 | 914 | 8 | <10 | 1230 |
| 284 DNS-28 | 50 | 3.2 | 126 | 600 | 5.5 | 34 | 12.50 | 50 | 0.80 | 9680 | 2880 | 12 | <10 | 1280 |
| 285 DNS-29 | <5 | 4.4 | 154 | 830 | 5 | 32 | 13.45 | 60 | 0.69 | 9620 | 3420 | 16 | <10 | 792 |
| 286 DNS-30 | <5 | 4 | 138 | 590 | 3 | 32 | 12.25 | 90 | 0.46 | 7790 | 2740 | 12 | <10 | 700 |
| 287 DNS-31 | <5 | 3.6 | 120 | 1330 | 1.5 | 43 | 12.05 | 160 | 0.27 | 7120 | 3270 | 18 | <10 | 568 |
| 288 DNS-32 | <5 | 2.8 | 90 | 630 | 2 | 41 | 9.57 | 140 | 0.45 | 5270 | 1125 | 10 | <10 | 548 |
| 289 DNS-33 | <5 | 3.2 | 110 | 340 | 2.5 | 38 | 9.74 | 50 | 1.33 | 6430 | 2060 | 16 | <10 | 560 |
| 290 DPS-01 | <5 | 1 | 132 | 350 | 4 | 28 | 4.44 | 100 | 1.97 | 2480 | 436 | 30 | <10 | 1015 |
| 291 DPS-02 | <5 | 2 | 292 | 280 | 6.5 | 25 | 5.07 | 90 | 1.10 | 3150 | 894 | 24 | <10 | 996 |
| 292 DPS-03 | 5 | 1.4 | 168 | 390 | 2.5 | 36 | 7.95 | 60 | 0.29 | 4620 | 1810 | 34 | <10 | 716 |
| 293 DPS-04 | <5 | 3.2 | 164 | 450 | 3.5 | 68 | 10.65 | 40 | 0.46 | 7400 | 2300 | 28 | <10 | 840 |
| 294 DPS-05 | <5 | 3.4 | 150 | 2200 | 3.5 | 195 | 8.81 | 60 | 2.65 | 6020 | 1175 | 28 | <10 | 870 |
| 295 DPS-06 | <5 | 4 | 166 | 2320 | 3 | 325 | 9.34 | 80 | 2.74 | 6160 | 1410 | 32 | <10 | 890 |
| 296 DPS-07 | <5 | 2.8 | 142 | 1100 | 4 | 202 | 11.35 | 30 | 0.37 | 8340 | 1770 | 34 | <10 | 916 |
| 297 DPS-08 | <5 | 2.2 | 144 | 600 | 2.5 | 104 | 12.65 | 40 | 0.15 | 7370 | 2080 | 28 | <10 | 762 |
| 298 DPS-09 | <5 | 2 | 140 | 710 | 4 | 88 | 14.60 | 10 | 0.31 | >10000 | 3100 | 38 | <10 | 924 |
| 299 DPS-10 | <5 | 5 | 82 | 1140 | 6.5 | 40 | 12.10 | 30 | 0.99 | 9070 | 3770 | 18 | <10 | 1370 |
| 300 DPS-11 | <5 | 7.4 | 72 | 1190 | 6.5 | 29 | 9.69 | 30 | 2.30 | 7290 | 2760 | 14 | <10 | 1175 |
| 301 DPS-12 | <5 | 2.8 | 90 | 560 | 4 | 35 | 10.25 | 40 | 0.96 | 8460 | 1920 | 14 | <10 | 1625 |
| 302 DPS-13 | <5 | 2.8 | 130 | 500 | 3.5 | 37 | 11.35 | 30 | 0.47 | 7800 | 2570 | 14 | <10 | 952 |
| 303 DPS-14 | 10 | 1.8 | 136 | 520 | 8.5 | 76 | 9.44 | 30 | 0.52 | 6620 | 1580 | 12 | <10 | 936 |
| 304 DPS-15 | <5 | 1.4 | 146 | 350 | 3.5 | 52 | 7.49 | 50 | 0.55 | 4580 | 838 | 12 | <10 | 942 |
| 305 DPS-16 | <5 | 0.8 | 266 | 400 | 3 | 45 | 7.68 | 40 | 0.67 | 5510 | 714 | 10 | <10 | 898 |
| 306 DPS-17 | 5 | 1.6 | 160 | 230 | 1.5 | 49 | 6.54 | 100 | 0.88 | 4460 | 1210 | 18 | <10 | 1200 |
| 307 DPS-18 | <5 | 0.8 | 178 | 250 | 1.5 | 37 | 7.38 | 60 | 0.22 | 4660 | 736 | 8 | <10 | 690 |
| 308 DPS-19 | <5 | 1.4 | 144 | 450 | 7.5 | 70 | 8.53 | 40 | 0.42 | 5450 | 1230 | 12 | <10 | 854 |
| 309 DPS-20 | <5 | 2.8 | 184 | 450 | 6 | 61 | 8.74 | 60 | 0.77 | 5800 | 1180 | 16 | <10 | 990 |
| 310 DPS-21 | <5 | 2 | 224 | 440 | 4 | 52 | 8.70 | 60 | 0.37 | 6410 | 1040 | 8 | <10 | 746 |
| 311 DPS-22 | <5 | 2.4 | 278 | 950 | 5 | 70 | 10.00 | 60 | 0.36 | 6650 | 1285 | 10 | <10 | 702 |
| 312 DPS-23 | 5 | 1.4 | 136 | 510 | 2 | 76 | 9.73 | 30 | 0.21 | 6080 | 1665 | 8 | <10 | 378 |
| 313 DPS-24 | 5 | 0.4 | 120 | 610 | 2 | 41 | 8.58 | 30 | 0.14 | 5060 | 930 | 8 | <10 | 530 |
| 314 DPS-25 | <5 | 0.8 | 166 | 180 | 1.5 | 50 | 9.16 | 50 | 0.17 | 5660 | 1170 | 10 | <10 | 638 |
| 315 DPS-26 | <5 | 0.6 | 182 | 260 | 1.5 | 34 | 9.69 | 60 | 0.21 | 6650 | 1490 | 24 | <10 | 816 |
| 316 DPS-27 | <5 | 0.8 | 96 | 320 | 0.5 | 28 | 8.26 | 40 | 0.18 | 5630 | 1345 | 20 | <10 | 474 |
| 317 DPS-28 | <5 | 1.2 | 200 | 720 | 3.5 | 62 | 10.05 | 10 | 0.20 | 7610 | 1525 | 22 | <10 | 580 |
| 318 DPS-29 | <5 | 2 | 266 | 750 | 4 | 91 | 11.20 | 30 | 0.30 | 7580 | 1585 | 18 | <10 | 876 |
| 319 DPS-30 | <5 | 1.6 | 268 | 1120 | 6 | 78 | 12.15 | 30 | 0.25 | 8600 | 1900 | 22 | <10 | 810 |
| 320 DPS-31 | <5 | 2.2 | 336 | 1130 | 3 | 131 | 14.95 | 20 | 0.25 | 9470 | 1140 | 36 | <10 | 592 |
| 321 DPS-32 | <5 | 0.2 | 84 | 130 | 0.5 | 49 | 4.20 | 10 | 0.21 | 2150 | 164 | 6 | <10 | 1020 |
| 322 DPS-33 | <5 | 0.2 | 68 | 300 | 0.5 | 32 | 4.37 | 20 | 0.25 | 4780 | 180 | 2 | <10 | 1045 |
| 323 DPS-34 | <5 | <2 | 70 | 160 | <5 | 36 | 3.86 | 30 | 0.20 | 1950 | 172 | 6 | <10 | 674 |
| 324 DPS-35 | <5 | 0.2 | 54 | 190 | <5 | 33 | 2.68 | 10 | 0.19 | 1095 | 518 | 2 | <10 | 330 |
| 325 DPS-36 | <5 | <2 | 94 | 240 | <5 | 58 | 3.93 | 10 | 0.54 | 1780 | 106 | <2 | <10 | 480 |
| 326 DPS-37 | <5 | 0.2 | 128 | 240 | 0.5 | 58 | 4.01 | 10 | 0.27 | 3010 | 216 | 2 | <10 | 536 |
| 327 DPS-38 | <5 | 0.2 | 114 | 710 | 2.5 | 52 | 3.92 | 20 | 0.42 | 6250 | 408 | <2 | <10 | 814 |
| 328 DPS-39 | <5 | 0.2 | 100 | 220 | 1.5 | 45 | 3.73 | 10 | 0.36 | 4790 | 334 | <2 | <10 | 718 |
| 329 DPS-40 | <5 | 0.2 | 98 | 450 | 4.5 | 52 | 3.98 | 30 | 0.52 | 8070 | 418 | 2 | <10 | 1430 |
| 330 DPS-41 | <5 | 0.2 | 86 | 340 | 0.5 | 39 | 3.69 | 10 | 0.48 | 6760 | 396 | 6 | <10 | 1255 |
| 331 DPS-42 | <5 | <2 | 68 | 190 | 0.5 | 21 | 3.52 | 20 | 0.42 | 3030 | 256 | 2 | <10 | 442 |
| 332 DPS-43 | <5 | <2 | 62 | 190 | 0.5 | 22 | 3.87 | 10 | 0.47 | 2510 | 166 | <2 | <10 | 312 |
| 333 DPS-44 | <5 | <2 | 44 | 130 | 0.5 | 12 | 2.84 | <10 | 0.41 | 1800 | 128 | 2 | <10 | 220 |
| 334 DPS-45 | <5 | <2 | 46 | 160 | 0.5 | 20 | 3.30 | 20 | 0.45 | 1985 | 150 | <2 | <10 | 268 |
| 335 DPS-46 | <5 | <2 | 106 | 180 | 1.5 | 27 | 3.39 | 10 | 0.38 | 3530 | 304 | 4 | <10 | 722 |
| 336 DPS-47 | <5 | <2 | 72 | 170 | 0.5 | 24 | 3.32 | 10 | 0.39 | 2380 | 188 | <2 | <10 | 418 |
| 337 DPS-48 | <5 | <2 | 82 | 160 | <5 | 23 | 4.06 | 10 | 0.52 | 1745 | 142 | <2 | <10 | 258 |
| 338 DPS-49 | <5 | <2 | 86 | 240 | 0.5 | 31 | 3.99 | 20 | 0.41 | 2330 | 172 | <2 | <10 | 324 |
| 339 DPS-50 | <5 | <2 | 64 | 320 | 0.5 | 29 | 3.69 | 20 | 0.33 | 2090 | 134 | <2 | <10 | 276 |
| 340 DPS-51 | <5 | <2 | 50 | 280 | <5 | 15 | 3.92 | 10 | 0.83 | 1160 | 86 | <2 | <10 | 204 |
| 341 DPS-52 | <5 | <2 | 56 | 210 | <5 | 24 | 4.04 | 30 | 0.78 | 1325 | 80 | <2 | <10 | 178 |
| 342 DPS-53 | <5 | <2 | 54 | 160 | <5 | 23 | 3.63 | <10 | 0.59 | 1075 | 74 | <2 | <10 | 144 |
| 343 DPS-54 | <5 | <2 | 56 | 260 | <5 | 24 | 3.81 | <10 | 0.47 | 1240 | 90 | <2 | <10 | 146 |
| 344 DPS-55 | <5 | <2 | 48 | 150 | <5 | 22 | 4.06 | 10 | 0.65 | 1345 | 74 | <2 | <10 | 88 |
| 345 DPS-56 | <5 | <2 | 26 | 320 | <5 | 13 | 4.11 | 10 | 0.81 | 915 | 132 | <2 | <10 | 86 |
| 346 DPS-57 | <5 | <2 | 30 | 410 | <5 | 8 | 3.74 | 10 | 0.58 | 1280 | 140 | <2 | <10 | 94 |
| 347 DPS-58 | <5 | <2 | 50 | 250 | <5 | 12 | 4.05 | 10 | 0.54 | 3090 | 292 | <2 | <10 | 230 |
| 348 DPS-59 | <5 | <2 | 40 | 310 | <5 | 19 | 4.53 | <10 | 1.26 | 3140 | 354 | 2 | <10 | 306 |
| 349 DPS-60 | <5 | <2 | 42 | 160 | <5 | 15 | 2.77 | 10 | 0.65 | 2240 | 346 | <2 | <10 | 260 |
| 350 DPS-61 | <5 | <2 | 44 | 360 | 0.5 | 27 | 4.40 | 10 | 0.61 | 5200 | 564 | 2 | <10 | 780 |
| 351 DPS-62 | <5 | 0.4 | 92 | 600 | 2.5 | 47 | 4.12 | 40 | 0.49 | >10000 | 1330 | 2 | <10 | 1870 |
| 352 DPS-63 | <5 | 0.6 | 120 | 770 | 5.5 | 98 | 6.62 | 30 | 0.35 | >10000 | 1180 | 6 | <10 | 1960 |
| 353 DPS-64 | <5 | 0.4 | 134 | 570 | 4.5 | 68 | 6.99 | 10 | 0.19 | >10000 | 902 | 6 | <10 | 2020 |
| 354 DPS-65 | 5 | 0.4 | 154 | 630 | 6.5 | 76 | 6.89 | 10 | 0.33 | >10000 | 1205 | <2 | <10 | 2580 |
| 355 DPS-66 | <5 | 0.4 | 140 | 650 | 5.5 | 79 | 4.68 | 40 | 0.46 | >10000 | 1610 | 4 | <10 | 2240 |
| 356 DPS-67 | <5 | <2 | 100 | 380 | 2.5 | 62 | 4.45 | 30 | 0.50 | 10000 | 870 | 4 | <10 | 2010 |
| 357 DPS-68 | <5 | <2 | 72 | 390 | 3.5 | 40 | 4.27 | 40 | 0.55 | 9950 | 834 | 2 | <10 | 1940 |
| 358 DPS-69 | <5 | <2 | 60 | 400 | 3.5 | 36 | 4.47 | 10 | 0.64 | >10000 | 496 | 4 | <10 | 1610 |
| 359 DPS-70 | <5 | <2 | 76 | 300 | 4 | 37 | 4.37 | 10 | 0.71 | >10000 | 512 | 2 | <10 | 1480 |
| 360 DPS-71 | <5 | <2 | 84 | 430 | 6.5 | 52 | 4.55 | 40 | 0.49 | >10000 | 914 | <2 | <10 | 2470 |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(5/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 361 DPS-72 | <5 | <2 | 70 | 400 | 3 | 38 | 4.81 | 40 | 0.14 | >10000 | 656 | <2 | <10 | 1120 |
| 362 DPS-73 | <5 | <2 | 80 | 330 | 2 | 32 | 5.22 | 30 | 0.10 | 8600 | 434 | 2 | <10 | 838 |
| 363 DPS-74 | <5 | <2 | 90 | 350 | 3 | 37 | 5.50 | 20 | 0.10 | 6420 | 420 | 8 | <10 | 1010 |
| 364 DPS-75 | <5 | 0.2 | 112 | 310 | 2 | 49 | 5.79 | 30 | 0.11 | 5390 | 430 | 4 | <10 | 834 |
| 365 DPS-76 | <5 | 0.2 | 110 | 180 | 1.5 | 41 | 6.01 | 30 | 0.12 | 4940 | 594 | <2 | <10 | 1095 |
| 366 DPS-77 | <5 | 0.2 | 140 | 190 | 1.5 | 50 | 5.78 | 40 | 0.16 | 6060 | 886 | 6 | <10 | 1080 |
| 367 DPS-78 | <5 | 0.2 | 156 | 220 | 2 | 67 | 5.16 | 30 | 0.49 | 6010 | 924 | 6 | <10 | 1615 |
| 368 DPS-79 | <5 | <2 | 170 | 180 | 2 | 57 | 5.14 | 30 | 0.33 | 6400 | 1015 | 2 | <10 | 1295 |
| 369 DPS-80 | <5 | <2 | 100 | 130 | 2 | 59 | 5.24 | 40 | 0.42 | 6310 | 926 | 4 | <10 | 1160 |
| 370 DPS-81 | <5 | <2 | 102 | 190 | 4.5 | 52 | 5.32 | 20 | 0.74 | 7550 | 576 | 8 | <10 | 1235 |
| 371 DPS-82 | <5 | <2 | 58 | 90 | <5 | 31 | 3.82 | <10 | 0.22 | 1820 | 124 | <2 | <10 | 180 |
| 372 DPS-83 | <5 | <2 | 66 | 270 | <5 | 27 | 4.46 | 30 | 0.37 | 3830 | 160 | <2 | <10 | 180 |
| 373 DPS-84 | <5 | <2 | 84 | 410 | <5 | 40 | 4.83 | 20 | 0.28 | 5360 | 122 | <2 | <10 | 166 |
| 374 DPS-85 | <5 | <2 | 92 | 1210 | <5 | 32 | 5.59 | 30 | 0.52 | 4000 | 150 | <2 | <10 | 172 |
| 375 DPS-86 | <5 | <2 | 68 | 3560 | <5 | 29 | 5.86 | <10 | 1.62 | 1895 | 136 | 2 | <10 | 252 |
| 376 DPS-87 | <5 | <2 | 50 | 290 | <5 | 21 | 4.33 | 10 | 0.46 | 1480 | 76 | <2 | <10 | 118 |
| 377 DPS-88 | <5 | <2 | 46 | 250 | <5 | 21 | 4.75 | 10 | 0.84 | 795 | 76 | <2 | <10 | 98 |
| 378 DPS-89 | <5 | <2 | 34 | 160 | <5 | 15 | 2.71 | 10 | 0.24 | 1020 | 68 | <2 | <10 | 80 |
| 379 DPS-90 | <5 | <2 | 28 | 270 | <5 | 23 | 5.14 | 10 | 0.97 | 390 | 120 | <2 | <10 | 116 |
| 380 DPS-91 | <5 | <2 | 64 | 110 | <5 | 23 | 3.45 | 20 | 0.21 | 1515 | 58 | <2 | <10 | 94 |
| 381 DPS-92 | <5 | <2 | 96 | 270 | 1 | 20 | 3.76 | 20 | 0.59 | 7740 | 96 | <2 | <10 | 250 |
| 382 DPS-93 | <5 | <2 | 84 | 230 | 2.5 | 31 | 3.71 | 10 | 0.97 | >10000 | 120 | <2 | <10 | 690 |
| 383 DPS-94 | <5 | <2 | 180 | 420 | 2.5 | 23 | 4.21 | 10 | 1.42 | >10000 | 214 | <2 | <10 | 1275 |
| 384 DPS-95 | <5 | 0.6 | 204 | 410 | 3 | 33 | 4.36 | 20 | 1.17 | 8690 | 378 | 2 | <10 | 1275 |
| 385 DPS-96 | <5 | 0.4 | 164 | 500 | 5.5 | 31 | 4.11 | 30 | 1.88 | >10000 | 506 | 2 | <10 | 1955 |
| 386 DPS-97 | <5 | <2 | 200 | 230 | 1.5 | 40 | 3.95 | 10 | 0.97 | 3710 | 530 | 2 | <10 | 2090 |
| 387 DPS-98 | <5 | 0.2 | 248 | 560 | 4.5 | 42 | 5.44 | 20 | 0.25 | >10000 | 398 | 6 | <10 | 1160 |
| 388 DQS-01 | <5 | <2 | 114 | 550 | 6 | 67 | 6.53 | <10 | 0.20 | >10000 | 968 | 4 | <10 | 2200 |
| 389 DQS-02 | <5 | <2 | 112 | 480 | 7.5 | 76 | 5.98 | 20 | 0.44 | >10000 | 1220 | 2 | <10 | 3150 |
| 390 DQS-03 | <5 | <2 | 116 | 310 | 7 | 67 | 5.33 | 10 | 0.68 | >10000 | 1000 | 2 | <10 | 2630 |
| 391 DQS-04 | <5 | <2 | 108 | 290 | 6 | 56 | 5.21 | 30 | 0.79 | >10000 | 726 | <2 | <10 | 1885 |
| 392 DQS-05 | <5 | <2 | 106 | 210 | 4.5 | 38 | 5.02 | 30 | 0.66 | 8830 | 400 | <2 | <10 | 1670 |
| 393 DQS-06 | <5 | <2 | 170 | 210 | 3.5 | 34 | 4.96 | 20 | 0.79 | >10000 | 868 | 4 | <10 | 1230 |
| 394 DQS-07 | <5 | <2 | 124 | 270 | 4.5 | 36 | 4.61 | <10 | 0.99 | 9440 | 844 | <2 | <10 | 1920 |
| 395 DQS-08 | <5 | <2 | 124 | 250 | 7 | 48 | 5.42 | <10 | 0.77 | >10000 | 1530 | 6 | <10 | 2310 |
| 396 DQS-09 | 10 | 0.2 | 238 | 300 | 13.5 | 55 | 5.20 | 20 | 1.07 | >10000 | 3650 | 2 | <10 | 4460 |
| 397 DQS-10 | <5 | <2 | 152 | 360 | 14 | 53 | 4.52 | 10 | 0.96 | >10000 | 1040 | 4 | <10 | 3720 |
| 398 DQS-11 | <5 | <2 | 120 | 510 | 18 | 40 | 4.67 | 40 | 0.70 | >10000 | 568 | <2 | <10 | 3710 |
| 399 DQS-12 | <5 | <2 | 104 | 450 | 13 | 35 | 4.18 | 30 | 0.56 | >10000 | 870 | <2 | <10 | 2510 |
| 400 DQS-13 | <5 | 0.2 | 94 | 410 | 12 | 33 | 4.57 | 30 | 0.56 | >10000 | 1085 | 2 | <10 | 2600 |
| 401 DQS-14 | <5 | <2 | 80 | 240 | 2.5 | 31 | 4.45 | 20 | 0.18 | 8620 | 1075 | 2 | <10 | 930 |
| 402 DQS-15 | <5 | <2 | 78 | 210 | 1 | 35 | 5.32 | 20 | 0.12 | 8410 | 240 | <2 | <10 | 1015 |
| 403 DQS-16 | <5 | <2 | 62 | 210 | 1.5 | 37 | 5.20 | 10 | 0.36 | 7560 | 254 | <2 | <10 | 1640 |
| 404 DQS-17 | <5 | <2 | 76 | 240 | 1 | 55 | 5.24 | 10 | 0.43 | 7050 | 468 | <2 | <10 | 1125 |
| 405 DQS-18 | <5 | <2 | 132 | 250 | 3 | 55 | 5.89 | 40 | 0.54 | 8870 | 666 | 10 | <10 | 1500 |
| 406 DQS-19 | <5 | <2 | 122 | 190 | 3 | 53 | 5.43 | 30 | 1.03 | 8180 | 464 | 2 | <10 | 1225 |
| 407 DQS-20 | <5 | <2 | 124 | 280 | 2 | 76 | 4.60 | 70 | 0.63 | 8220 | 506 | 6 | <10 | 1325 |
| 408 DQS-21 | <5 | <2 | 38 | 210 | <5 | 33 | 3.85 | 30 | 0.12 | 1775 | 136 | <2 | <10 | 332 |
| 409 DQS-22 | <5 | <2 | 54 | 250 | <5 | 31 | 2.93 | 40 | 0.09 | 1485 | 118 | <2 | <10 | 340 |
| 410 DQS-23 | <5 | <2 | 72 | 410 | 0.5 | 39 | 4.30 | 30 | 0.09 | 3270 | 164 | 6 | <10 | 392 |
| 411 DQS-24 | <5 | <2 | 54 | 510 | 0.5 | 46 | 4.35 | 70 | 0.08 | 3630 | 94 | <2 | <10 | 250 |
| 412 DQS-25 | <5 | <2 | 52 | 850 | 0.5 | 66 | 3.46 | 210 | 0.12 | 2930 | 124 | 2 | <10 | 310 |
| 413 DQS-26 | <5 | <2 | 80 | 610 | <5 | 55 | 3.87 | 80 | 0.09 | 2630 | 144 | 4 | <10 | 314 |
| 414 DQS-27 | <5 | <2 | 10 | 190 | <5 | 22 | 4.01 | <10 | 1.39 | 425 | 68 | <2 | <10 | 124 |
| 415 DQS-28 | <5 | <2 | 24 | 140 | <5 | 33 | 4.76 | <10 | 1.13 | 545 | 72 | <2 | <10 | 102 |
| 416 DQS-29 | <5 | <2 | 22 | 130 | <5 | 15 | 3.09 | <10 | 0.40 | 700 | 32 | <2 | <10 | 40 |
| 417 DQS-30 | <5 | <2 | 70 | 190 | <5 | 43 | 4.25 | <10 | 0.32 | 1300 | 56 | <2 | <10 | 128 |
| 418 DQS-31 | <5 | <2 | 66 | 180 | <5 | 26 | 3.39 | <10 | 0.29 | 1180 | 84 | <2 | <10 | 124 |
| 419 DQS-32 | <5 | <2 | 54 | 210 | <5 | 15 | 3.94 | <10 | 0.40 | 1210 | 112 | 2 | <10 | 188 |
| 420 DQS-33 | <5 | <2 | 64 | 200 | <5 | 22 | 4.38 | 10 | 0.51 | 1485 | 138 | 6 | <10 | 300 |
| 421 DQS-34 | <5 | <2 | 52 | 270 | <5 | 28 | 3.77 | 20 | 0.38 | 1655 | 144 | <2 | <10 | 348 |
| 422 DQS-35 | <5 | <2 | 62 | 180 | <5 | 43 | 4.12 | 10 | 0.30 | 1760 | 160 | <2 | <10 | 426 |
| 423 DQS-36 | <5 | <2 | 64 | 160 | <5 | 40 | 4.39 | 10 | 0.21 | 2420 | 212 | 2 | <10 | 390 |
| 424 DQS-37 | <5 | <2 | 88 | 270 | <5 | 34 | 4.31 | 10 | 0.17 | 3780 | 420 | 6 | <10 | 312 |
| 425 DQS-38 | <5 | 0.2 | 158 | 210 | <5 | 40 | 4.59 | 10 | 0.15 | 3690 | 960 | 2 | <10 | 406 |
| 426 DQS-39 | <5 | <2 | 238 | 200 | <5 | 40 | 4.38 | 30 | 0.16 | 3610 | 794 | 2 | <10 | 488 |
| 427 DQS-40 | 5 | <2 | 256 | 120 | <5 | 50 | 4.47 | 30 | 0.15 | 2470 | 468 | 2 | <10 | 418 |
| 428 DQS-41 | 15 | 0.2 | 336 | 350 | <5 | 27 | 3.64 | 40 | 0.17 | 6340 | 1150 | 8 | <10 | 728 |
| 429 DQS-42 | 25 | <2 | 564 | 380 | 2 | 44 | 4.49 | <10 | 0.16 | >10000 | 732 | 12 | <10 | 1270 |
| 430 DQS-43 | 15 | <2 | 556 | 480 | 8.5 | 35 | 4.62 | 10 | 0.21 | >10000 | 1110 | 10 | <10 | 1790 |
| 431 DQS-44 | 15 | 0.2 | 436 | 580 | 14 | 50 | 4.46 | 40 | 0.26 | >10000 | 1340 | 8 | <10 | 2130 |
| 432 DQS-45 | 20 | 0.2 | 400 | 590 | 20 | 40 | 4.20 | 30 | 0.27 | >10000 | 936 | 10 | <10 | 2640 |
| 433 DQS-46 | <5 | 0.4 | 160 | 380 | 34.5 | 46 | 4.02 | 30 | 0.68 | >10000 | 702 | <2 | <10 | 4190 |
| 434 DQS-47 | <5 | 0.6 | 184 | 530 | 37 | 61 | 4.30 | 50 | 1.05 | >10000 | 1280 | 6 | <10 | 5570 |
| 435 DQS-48 | <5 | 0.2 | 102 | 400 | 15 | 49 | 4.59 | 20 | 0.91 | >10000 | 1305 | 2 | <10 | 2000 |
| 436 DQS-49 | <5 | <2 | 90 | 190 | 2.5 | 38 | 5.27 | 10 | 0.51 | 8930 | 1130 | 12 | <10 | 1455 |
| 437 DQS-50 | <5 | <2 | 72 | 180 | 0.5 | 43 | 5.13 | <10 | 0.38 | 5690 | 112 | <2 | <10 | 328 |
| 438 DQS-51 | <5 | <2 | 148 | 240 | <5 | 32 | 5.95 | 10 | 0.21 | 6290 | 116 | 6 | 10 | 560 |
| 439 DQS-52 | <5 | <2 | 114 | 410 | 1 | 33 | 5.81 | 20 | 0.21 | 9170 | 188 | <2 | 20 | 544 |
| 440 DQS-53 | <5 | <2 | 112 | 340 | 1 | 33 | 6.63 | 20 | 0.15 | >10000 | 192 | 2 | 10 | 440 |
| 441 DQS-54 | <5 | <2 | 164 | 310 | 0.5 | 46 | 6.77 | 30 | 0.19 | >10000 | 184 | 4 | 10 | 454 |
| 442 DQS-55 | <5 | <2 | 176 | 680 | 0.5 | 53 | 6.52 | <10 | 0.26 | >10000 | 146 | 6 | 10 | 400 |
| 443 DQS-56 | <5 | <2 | 178 | 450 | 0.5 | 70 | 5.72 | 10 | 0.24 | 7000 | 156 | 4 | <10 | 314 |
| 444 DQS-57 | <5 | <2 | 192 | 320 | <5 | 46 | 6.07 | 10 | 0.15 | 7330 | 140 | <2 | <10 | 328 |
| 445 DQS-58 | <5 | <2 | 150 | 330 | 1 | 39 | 5.42 | 10 | 0.54 | 9350 | 160 | 2 | <10 | 418 |
| 446 DQS-59 | <5 | <2 | 132 | 360 | 0.5 | 34 | 6.13 | 10 | 0.21 | >10000 | 140 | 6 | <10 | 398 |
| 447 DQS-60 | <5 | <2 | 124 | 300 | 0.5 | 29 | 5.56 | <10 | 0.22 | >10000 | 140 | 2 | <10 | 350 |
| 448 DQS-61 | <5 | <2 | 124 | 290 | <5 | 30 | 5.32 | 10 | 0.16 | 8160 | 124 | <2 | <10 | 332 |
| 449 DQS-62 | <5 | <2 | 110 | 260 | 0.5 | 28 | 4.55 | 10 | 0.56 | 5160 | 140 | <2 | <10 | 352 |
| 450 DQS-63 | <5 | <2 | 148 | 440 | 1 | 40 | 5.21 | 10 | 0.16 | 7370 | 118 | 2 | <10 | 450 |

Appendix 4 Geochemical Data of Soil Sample in Dong Noi Area

(6/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 451 DQS-64 | <5 | <2 | 158 | 470 | <5 | 63 | 4.87 | 30 | 0.12 | 3170 | 82 | 6 | <10 | 256 |
| 452 DQS-65 | <5 | <2 | 108 | 510 | <5 | 78 | 4.12 | 50 | 0.12 | 2130 | 62 | <2 | <10 | 164 |
| 453 DQS-66 | 5 | 0.2 | 140 | 280 | <5 | 50 | 4.95 | 30 | 0.11 | 1270 | 100 | 6 | <10 | 250 |
| 454 DQS-67 | <5 | <2 | 88 | 450 | <5 | 58 | 3.80 | 30 | 0.11 | 1315 | 44 | <2 | <10 | 164 |
| 455 DQS-68 | <5 | <2 | 124 | 1060 | 0.5 | 55 | 4.14 | 40 | 0.16 | 2100 | 80 | 6 | <10 | 252 |
| 456 DQS-69 | <5 | <2 | 206 | 1010 | <5 | 48 | 4.93 | 30 | 0.14 | 5190 | 145 | 2 | <10 | 392 |
| 457 DQS-70 | 5 | <2 | 154 | 330 | 1.5 | 37 | 5.45 | 30 | 0.11 | 7910 | 322 | 6 | <10 | 592 |
| 458 DQS-71 | <5 | <2 | 146 | 280 | 0.5 | 27 | 5.89 | 20 | 0.09 | 6050 | 214 | <2 | <10 | 396 |
| 459 DQS-72 | <5 | <2 | 128 | 170 | 0.5 | 30 | 5.10 | 20 | 0.08 | 5310 | 162 | 2 | <10 | 300 |
| 460 DQS-73 | <5 | <2 | 168 | 190 | <5 | 32 | 5.07 | 30 | 0.08 | 5140 | 126 | 6 | <10 | 262 |
| 461 DQS-74 | <5 | <2 | 236 | 270 | <5 | 49 | 4.93 | 30 | 0.09 | 7620 | 180 | 4 | <10 | 293 |
| 462 DQS-75 | <5 | <2 | 172 | 150 | <5 | 38 | 4.72 | 10 | 0.10 | 2230 | 112 | <2 | <10 | 230 |
| 463 DQS-76 | <5 | <2 | 146 | 210 | <5 | 43 | 4.77 | 10 | 0.11 | 2560 | 140 | 6 | <10 | 254 |
| 464 DQS-77 | <5 | <2 | 182 | 170 | <5 | 37 | 4.90 | 20 | 0.18 | 2760 | 216 | 10 | <10 | 362 |
| 465 DQS-78 | <5 | <2 | 178 | 250 | 0.5 | 33 | 5.27 | 10 | 0.26 | 5020 | 156 | 6 | <10 | 368 |
| 466 DQS-79 | 10 | <2 | 150 | 240 | 0.5 | 36 | 4.76 | <10 | 0.31 | 5060 | 224 | 8 | <10 | 538 |
| 467 DQS-80 | 5 | <2 | 142 | 370 | 2 | 39 | 4.94 | 30 | 0.36 | 7340 | 330 | 4 | <10 | 828 |
| 468 DQS-81 | <5 | <2 | 132 | 420 | 2.5 | 38 | 5.22 | 30 | 0.41 | 6590 | 294 | 6 | <10 | 798 |
| 469 DQS-82 | <5 | <2 | 118 | 310 | 1.5 | 35 | 4.90 | 30 | 0.25 | 5490 | 244 | 4 | <10 | 668 |
| 470 DQS-83 | <5 | <2 | 94 | 550 | 2 | 40 | 4.12 | 40 | 0.19 | 5250 | 222 | 4 | <10 | 638 |
| 471 DQS-84 | <5 | <2 | 98 | 390 | 1.5 | 27 | 3.95 | 40 | 0.37 | 5970 | 152 | 2 | <10 | 398 |
| 472 DQS-85 | <5 | <2 | 116 | 250 | <5 | 23 | 4.97 | 10 | 0.13 | 6870 | 108 | 4 | <10 | 284 |
| 473 DQS-86 | <5 | <2 | 44 | 170 | <5 | 17 | 3.87 | 10 | 0.55 | 1490 | 122 | <2 | <10 | 134 |
| 474 DQS-87 | <5 | <2 | 26 | 260 | <5 | 21 | 3.99 | 10 | 1.01 | 810 | 90 | <2 | <10 | 118 |
| 475 DQS-88 | <5 | <2 | 22 | 310 | <5 | 21 | 4.15 | 10 | 1.32 | 1020 | 70 | <2 | <10 | 118 |
| 476 DQS-89 | <5 | <2 | 24 | 170 | <5 | 22 | 4.08 | 10 | 1.16 | 880 | 76 | <2 | <10 | 114 |
| 477 DRS-01 | <5 | <2 | 50 | 210 | <5 | 28 | 4.71 | 10 | 0.98 | 405 | 130 | <2 | <10 | 118 |
| 478 DRS-02 | <5 | <2 | 28 | 150 | <5 | 22 | 3.33 | 10 | 0.63 | 965 | 72 | <2 | <10 | 106 |
| 479 DRS-03 | <5 | <2 | 50 | 150 | <5 | 27 | 3.83 | <10 | 0.44 | 1375 | 80 | 4 | <10 | 124 |
| 480 DRS-04 | <5 | <2 | 62 | 190 | <5 | 36 | 4.16 | 10 | 0.22 | 2170 | 90 | <2 | <10 | 168 |
| 481 DRS-05 | <5 | <2 | 50 | 220 | <5 | 44 | 4.90 | 10 | 0.21 | 2320 | 94 | <2 | <10 | 216 |
| 482 DRS-06 | <5 | <2 | 60 | 200 | <5 | 43 | 4.92 | <10 | 0.40 | 2210 | 92 | <2 | <10 | 250 |
| 483 DRS-07 | <5 | <2 | 82 | 220 | <5 | 31 | 4.26 | 10 | 0.38 | 2540 | 202 | 6 | <10 | 488 |
| 484 DRS-08 | <5 | <2 | 94 | 270 | <5 | 31 | 4.51 | 40 | 0.42 | 2530 | 234 | 2 | <10 | 556 |
| 485 DRS-09 | <5 | <2 | 120 | 250 | 0.5 | 36 | 4.85 | 10 | 0.46 | 2110 | 350 | 8 | <10 | 664 |
| 486 DRS-10 | <5 | <2 | 112 | 370 | 1 | 38 | 4.86 | 10 | 0.37 | 3460 | 452 | <2 | <10 | 806 |
| 487 DRS-11 | <5 | <2 | 154 | 250 | 1 | 44 | 4.76 | <10 | 0.40 | 3700 | 580 | 2 | <10 | 1005 |
| 488 DRS-12 | <5 | 0.2 | 146 | 310 | 3.5 | 32 | 4.14 | <10 | 0.84 | 6500 | 920 | 6 | <10 | 1275 |
| 489 DRS-13 | <5 | 0.2 | 118 | 380 | 4 | 34 | 3.83 | 10 | 0.90 | 8720 | 652 | 6 | <10 | 1450 |
| 490 DRS-14 | <5 | <2 | 68 | 260 | 1 | 29 | 4.07 | <10 | 0.37 | 6640 | 258 | <2 | <10 | 622 |
| 491 DRS-15 | <5 | <2 | 40 | 200 | 0.5 | 33 | 3.56 | 20 | 0.39 | 2370 | 218 | <2 | <10 | 820 |
| 492 DRS-16 | <5 | <2 | 66 | 200 | 0.5 | 37 | 3.52 | <10 | 0.13 | 2650 | 184 | 2 | <10 | 452 |
| 493 DRS-17 | <5 | <2 | 44 | 110 | <5 | 38 | 3.25 | <10 | 0.12 | 1495 | 120 | <2 | <10 | 304 |
| 494 DRS-18 | <5 | <2 | 74 | 160 | <5 | 41 | 4.30 | 10 | 0.21 | 3240 | 160 | 8 | <10 | 534 |
| 495 DRS-19 | <5 | <2 | 92 | 220 | 0.5 | 44 | 4.67 | <10 | 0.35 | 3970 | 154 | <2 | <10 | 654 |
| 496 DRS-20 | <5 | <2 | 84 | 330 | 0.5 | 50 | 4.61 | 10 | 0.29 | 2820 | 116 | 6 | <10 | 496 |
| 497 DRS-21 | <5 | <2 | 68 | 300 | <5 | 38 | 3.44 | 10 | 0.15 | 2070 | 252 | <2 | <10 | 350 |
| 498 DRS-22 | <5 | <2 | 100 | 490 | <5 | 54 | 3.49 | 10 | 0.08 | 1815 | 200 | 2 | <10 | 312 |

Appendix 5 Geochemical Data of Soil Sample in Mac Kanai Area

(1/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 1 MKS-01 | <5 | <2 | 34 | 100 | <5 | 31 | 3.79 | 30 | 0.11 | 1730 | 68 | 6 | <10 | 38 |
| 2 MKS-02 | <5 | <2 | 78 | 120 | <5 | 39 | 4.67 | 40 | 0.12 | 1600 | 86 | 6 | <10 | 56 |
| 3 MKS-03 | 5 | <2 | 70 | 160 | <5 | 46 | 5.01 | 50 | 0.13 | 1560 | 72 | 6 | <10 | 58 |
| 4 MKS-04 | <5 | <2 | 62 | 210 | <5 | 29 | 4.25 | 50 | 0.1 | 1450 | 124 | 12 | <10 | 56 |
| 5 MKS-05 | <5 | 0.2 | 58 | 190 | <5 | 20 | 4.04 | 10 | 0.1 | 1765 | 280 | 12 | <10 | 42 |
| 6 MKS-06 | <5 | <2 | 74 | 110 | <5 | 31 | 4.62 | 40 | 0.07 | 2220 | 392 | 18 | <10 | 34 |
| 7 MKS-07 | <5 | <2 | 202 | 60 | <5 | 64 | 8.02 | 100 | 0.04 | 1575 | 472 | 34 | <10 | 66 |
| 8 MKS-08 | <5 | 0.6 | 310 | 60 | <5 | 170 | 11.80 | 70 | 0.07 | 4900 | 696 | 44 | <10 | 110 |
| 9 MKS-09 | <5 | 0.4 | 146 | 160 | <5 | 92 | 7.21 | 30 | 0.09 | 5130 | 650 | 12 | <10 | 110 |
| 10 MKS-10 | 10 | <2 | 168 | 120 | <5 | 173 | 9.36 | 50 | 0.13 | 4620 | 1120 | 30 | <10 | 338 |
| 11 MKS-11 | <5 | 0.4 | 280 | 270 | <5 | 206 | 10.10 | 150 | 0.06 | 8250 | 1100 | 52 | <10 | 446 |
| 12 MKS-12 | <5 | 0.2 | 238 | 120 | <5 | 135 | 9.29 | 70 | 0.05 | 4690 | 632 | 22 | <10 | 312 |
| 13 MKS-13 | <5 | <2 | 128 | 60 | <5 | 117 | 9.40 | 30 | 0.07 | 4390 | 432 | 26 | <10 | 120 |
| 14 MKS-14 | <5 | <2 | 68 | 100 | <5 | 78 | 6.32 | 30 | 0.08 | 3010 | 308 | 20 | <10 | 128 |
| 15 MKS-15 | <5 | <2 | 60 | 270 | <5 | 53 | 5.05 | 40 | 0.25 | 1975 | 120 | <2 | <10 | 266 |
| 16 MKS-16 | <5 | <2 | 82 | 60 | <5 | 43 | 6.75 | 40 | 0.07 | 2620 | 168 | 16 | <10 | 88 |
| 17 MKS-17 | <5 | <2 | 110 | 50 | <5 | 37 | 7.10 | 50 | 0.05 | 2180 | 156 | 10 | <10 | 80 |
| 18 MKS-18 | <5 | <2 | 184 | 50 | <5 | 41 | 7.57 | 60 | 0.04 | 2110 | 282 | 26 | <10 | 138 |
| 19 MKS-19 | <5 | 0.2 | 160 | 60 | <5 | 41 | 7.49 | 40 | 0.1 | 2560 | 326 | 26 | <10 | 238 |
| 20 MKS-20 | <5 | <2 | 122 | 80 | <5 | 36 | 7.12 | 30 | 0.07 | 3140 | 172 | 8 | <10 | 240 |
| 21 MKS-21 | <5 | <2 | 122 | 60 | <5 | 43 | 6.09 | 50 | 0.06 | 3340 | 188 | 10 | <10 | 148 |
| 22 MKS-22 | <5 | <2 | 122 | 30 | <5 | 60 | 5.86 | 50 | 0.05 | 2710 | 208 | 6 | <10 | 110 |
| 23 MKS-23 | <5 | <2 | 60 | 30 | <5 | 28 | 2.86 | 10 | 0.04 | 575 | 62 | 4 | <10 | 40 |
| 24 MKS-24 | <5 | <2 | 110 | 40 | <5 | 25 | 6.19 | 20 | 0.06 | 1625 | 72 | <2 | <10 | 74 |
| 25 MKS-25 | <5 | <2 | 154 | 50 | <5 | 28 | 6.53 | 50 | 0.05 | 1365 | 88 | 8 | <10 | 122 |
| 26 MKS-26 | <5 | <2 | 94 | 60 | <5 | 33 | 6.40 | 60 | 0.06 | 900 | 74 | 6 | <10 | 84 |
| 27 MKS-27 | <5 | <2 | 86 | 70 | <5 | 40 | 6.88 | 100 | 0.07 | 1075 | 72 | 4 | <10 | 90 |
| 28 MKS-28 | <5 | <2 | 66 | 100 | <5 | 39 | 5.96 | 40 | 0.11 | 2080 | 82 | 6 | <10 | 90 |
| 29 MKS-29 | <5 | <2 | 60 | 90 | <5 | 39 | 5.00 | 110 | 0.06 | 1540 | 102 | 2 | <10 | 106 |
| 30 MKS-30 | <5 | 0.2 | 110 | 1950 | 1.5 | 43 | 7.34 | 140 | 0.19 | >10000 | 64 | 8 | <10 | 280 |
| 31 MKS-31 | 5 | <2 | 108 | 590 | 1 | 29 | 7.04 | 90 | 0.37 | 5640 | 102 | 6 | <10 | 284 |
| 32 MKS-32 | <5 | 0.2 | 100 | 1350 | 3 | 42 | 5.57 | 100 | 0.57 | 6200 | 104 | 2 | <10 | 282 |
| 33 MKS-33 | <5 | <2 | 38 | 780 | <5 | 19 | 1.81 | 80 | 0.08 | 985 | 38 | <2 | <10 | 32 |
| 34 MKS-34 | <5 | <2 | 42 | 250 | <5 | 24 | 2.11 | 50 | 0.1 | 875 | 40 | 2 | <10 | 36 |
| 35 MKS-35 | <5 | <2 | 26 | 110 | <5 | 20 | 1.75 | 40 | 0.08 | 430 | 34 | <2 | <10 | 28 |
| 36 MKS-36 | <5 | <2 | 38 | 170 | <5 | 28 | 2.05 | 10 | 0.11 | 260 | 54 | 2 | <10 | 24 |
| 37 MKS-37 | <5 | <2 | 44 | 160 | <5 | 26 | 1.71 | 10 | 0.1 | 80 | 42 | 6 | <10 | 12 |
| 38 MKS-38 | <5 | <2 | 62 | 250 | <5 | 21 | 1.23 | <10 | 0.1 | 30 | 86 | <2 | <10 | 12 |
| 39 MKS-39 | <5 | <2 | 14 | 190 | <5 | 14 | 1.04 | 10 | 0.07 | 25 | 18 | <2 | <10 | 8 |
| 40 MKS-40 | <5 | <2 | 36 | 320 | <5 | 16 | 2.16 | 10 | 0.14 | 40 | 32 | 2 | <10 | 14 |
| 41 MKS-41 | <5 | <2 | 14 | 510 | <5 | 11 | 1.52 | 10 | 0.1 | 30 | 22 | <2 | <10 | 10 |
| 42 MKS-42 | <5 | <2 | 34 | 1120 | <5 | 9 | 1.88 | 30 | 0.12 | 50 | 26 | <2 | <10 | 10 |
| 43 MKS-43 | <5 | <2 | 20 | 1230 | <5 | 9 | 2.58 | 40 | 0.12 | 95 | 24 | 2 | <10 | 14 |
| 44 MKS-44 | 5 | <2 | 18 | 2170 | <5 | 7 | 2.09 | 40 | 0.09 | 70 | 20 | 2 | <10 | 10 |
| 45 MKS-45 | <5 | <2 | 18 | 430 | <5 | 39 | 1.41 | 80 | 0.07 | 260 | 62 | 2 | <10 | 14 |
| 46 MKS-46 | <5 | <2 | 26 | 400 | <5 | 41 | 4.28 | 50 | 0.11 | 415 | 64 | 6 | <10 | 70 |
| 47 MKS-47 | <5 | <2 | 26 | 250 | <5 | 41 | 3.67 | 10 | 0.13 | 890 | 48 | <2 | <10 | 60 |
| 48 MKS-48 | <5 | <2 | 34 | 280 | <5 | 36 | 3.12 | 30 | 0.08 | 1460 | 154 | 12 | <10 | 54 |
| 49 MKS-49 | <5 | 0.2 | 134 | 1470 | <5 | 98 | 8.26 | 70 | 0.07 | 6460 | 1080 | 68 | <10 | 520 |
| 50 MKS-50 | <5 | 0.4 | 132 | 930 | 0.5 | 396 | 8.38 | 130 | 0.17 | 5870 | 1280 | 72 | <10 | 414 |
| 51 MKS-51 | <5 | 0.4 | 194 | 310 | <5 | 526 | 10.25 | 100 | 0.07 | 3940 | 620 | 108 | <10 | 178 |
| 52 MKS-52 | <5 | 0.2 | 130 | 100 | <5 | 188 | 9.93 | 70 | 0.08 | 2880 | 530 | 64 | <10 | 106 |
| 53 MKS-53 | <5 | 0.2 | 176 | 80 | <5 | 236 | 12.35 | 100 | 0.07 | 2230 | 484 | 58 | <10 | 152 |
| 54 MKS-54 | <5 | 0.2 | 210 | 80 | <5 | 153 | 12.20 | 100 | 0.06 | 2430 | 392 | 46 | <10 | 130 |
| 55 MKS-55 | <5 | <2 | 148 | 80 | <5 | 179 | 10.75 | 90 | 0.07 | 1930 | 294 | 42 | <10 | 156 |
| 56 MKS-56 | <5 | 0.2 | 174 | 80 | <5 | 288 | 10.75 | 60 | 0.08 | 3140 | 440 | 76 | <10 | 208 |
| 57 MKS-57 | <5 | 0.2 | 102 | 200 | <5 | 114 | 6.90 | 40 | 0.11 | 4020 | 502 | 40 | <10 | 162 |
| 58 MKS-58 | <5 | <2 | 28 | 450 | <5 | 51 | 3.80 | 50 | 0.2 | 790 | 116 | 4 | <10 | 160 |
| 59 MKS-59 | <5 | <2 | 82 | 50 | <5 | 34 | 5.84 | 40 | 0.04 | 855 | 60 | 2 | <10 | 60 |
| 60 MKS-60 | <5 | <2 | 38 | 50 | <5 | 24 | 4.72 | 30 | 0.03 | 335 | 52 | <2 | <10 | 36 |
| 61 MKS-61 | <5 | <2 | 100 | 50 | <5 | 40 | 7.33 | 40 | 0.05 | 455 | 54 | 2 | <10 | 90 |
| 62 MKS-62 | <5 | <2 | 106 | 70 | <5 | 45 | 6.95 | 50 | 0.07 | 1545 | 46 | 6 | <10 | 102 |
| 63 MKS-63 | <5 | <2 | 50 | 60 | <5 | 38 | 4.09 | 40 | 0.07 | 1365 | 36 | 6 | <10 | 66 |
| 64 MKS-64 | <5 | 0.2 | 80 | 50 | <5 | 44 | 5.59 | 50 | 0.04 | 520 | 36 | <2 | <10 | 84 |
| 65 MKS-65 | <5 | <2 | 66 | 40 | <5 | 26 | 5.03 | 10 | 0.05 | 155 | 23 | 2 | <10 | 46 |
| 66 MKS-66 | <5 | <2 | 34 | 40 | <5 | 19 | 3.14 | 10 | 0.05 | 205 | 24 | <2 | <10 | 26 |
| 67 MKS-67 | <5 | <2 | 26 | 60 | <5 | 17 | 2.54 | 10 | 0.05 | 265 | 26 | <2 | <10 | 22 |
| 68 MKS-68 | <5 | <2 | 46 | 80 | <5 | 22 | 3.38 | 20 | 0.06 | 370 | 52 | 2 | <10 | 32 |
| 69 MKS-69 | 5 | <2 | 64 | 70 | <5 | 24 | 3.35 | 10 | 0.07 | 375 | 60 | <2 | <10 | 32 |
| 70 MKS-70 | 5 | <2 | 50 | 80 | <5 | 23 | 2.43 | 40 | 0.06 | 490 | 42 | <2 | <10 | 32 |
| 71 MKS-71 | <5 | 0.2 | 80 | 600 | 1.5 | 41 | 4.41 | 70 | 2.32 | 2070 | 272 | 10 | <10 | 834 |
| 72 MKS-72 | <5 | <2 | 62 | 260 | <5 | 56 | 4.81 | 60 | 0.15 | 1650 | 474 | 12 | <10 | 200 |
| 73 MKS-73 | <5 | <2 | 34 | 260 | <5 | 49 | 3.48 | 50 | 0.11 | 1525 | 100 | <2 | <10 | 143 |
| 74 MKS-74 | <5 | <2 | 34 | 290 | <5 | 71 | 4.35 | 60 | 0.17 | 1390 | 48 | <2 | <10 | 112 |
| 75 MKS-75 | <5 | <2 | 16 | 210 | <5 | 47 | 2.82 | 40 | 0.13 | 95 | 40 | 2 | <10 | 44 |
| 76 MKS-76 | <5 | <2 | 6 | 120 | <5 | 28 | 1.32 | 40 | 0.08 | 640 | 30 | 2 | <10 | 26 |
| 77 MKS-77 | <5 | <2 | 30 | 310 | <5 | 61 | 3.37 | 50 | 0.1 | 1435 | 36 | 2 | <10 | 74 |
| 78 MKS-78 | <5 | <2 | 22 | 250 | <5 | 60 | 2.83 | 10 | 0.09 | 765 | 44 | 2 | <10 | 68 |
| 79 MKS-79 | <5 | <2 | 68 | 240 | <5 | 75 | 4.73 | 30 | 0.17 | 2460 | 116 | 8 | <10 | 152 |
| 80 MKS-80 | <5 | <2 | 56 | 250 | <5 | 74 | 3.99 | 50 | 0.12 | 2180 | 194 | 12 | <10 | 172 |
| 81 MKS-81 | <5 | 0.2 | 84 | 440 | <5 | 64 | 3.71 | 30 | 0.13 | 2050 | 206 | 8 | <10 | 180 |
| 82 MKS-82 | <5 | 0.2 | 68 | 360 | <5 | 42 | 4.20 | 20 | 1.42 | 1810 | 198 | 8 | <10 | 600 |
| 83 MKS-83 | <5 | 0.5 | 70 | 370 | 0.5 | 94 | 6.36 | 80 | 0.77 | 3410 | 818 | 30 | <10 | 604 |
| 84 MKS-84 | <5 | 0.2 | 66 | 260 | <5 | 97 | 7.35 | 120 | 0.2 | 3840 | 1200 | 30 | <10 | 598 |
| 85 MKS-85 | <5 | 0.6 | 98 | 360 | 1.5 | 260 | 10.90 | 190 | 0.4 | 6140 | 2080 | 98 | <10 | 622 |
| 86 MKS-86 | <5 | 0.6 | 110 | 220 | 0.5 | 342 | 5.84 | 240 | 0.42 | 4380 | 1965 | 122 | <10 | 486 |
| 87 MKS-87 | <5 | <2 | 44 | 550 | 0.5 | 93 | 4.41 | 50 | 0.11 | 7090 | 74 | 6 | <10 | 196 |
| 88 MKS-88 | <5 | <2 | 50 | 320 | <5 | 92 | 4.10 | 30 | 0.07 | 3510 | 44 | <2 | <10 | 118 |
| 89 MKS-89 | <5 | 0.6 | 96 | 180 | 0.5 | 154 | 9.75 | 150 | 0.21 | 4370 | 2040 | 70 | <10 | 606 |
| 90 MKS-90 | <5 | 0.8 | 94 | 120 | <5 | 182 | 11.60 | 330 | 0.13 | 5790 | 1985 | 78 | <10 | 476 |

Appendix 5 Geochemical Data of Soil Sample in Mae Kanai Area

(2/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 91 MKS-91 | <5 | 0.4 | 110 | 240 | <5 | 138 | 7.43 | 120 | 0.11 | 4620 | 1110 | 70 | <10 | 326 |
| 92 MKS-92 | <5 | 0.6 | 160 | 330 | 0.5 | 196 | 5.65 | 190 | 0.18 | 3930 | 852 | 92 | <10 | 326 |
| 93 MKS-93 | <5 | 0.2 | 226 | 240 | <5 | 149 | 5.87 | 100 | 0.1 | 3290 | 960 | 85 | <10 | 132 |
| 94 MKS-94 | <5 | 0.2 | 308 | 550 | <5 | 122 | 6.77 | 130 | 0.05 | 3850 | 1005 | 139 | <10 | 128 |
| 95 MKS-95 | <5 | 0.4 | 302 | 1090 | 0.5 | 73 | 8.15 | 750 | 0.17 | 9160 | 1200 | 90 | <10 | 455 |
| 96 MLS-01 | 5 | <2 | 72 | 710 | <5 | 31 | 2.41 | 120 | 0.1 | 1405 | 54 | <2 | <10 | 58 |
| 97 MLS-02 | <5 | <2 | 56 | 2690 | <5 | 13 | 1.45 | 60 | 0.07 | 220 | 38 | 2 | <10 | 18 |
| 98 MLS-03 | <5 | <2 | 42 | 1140 | <5 | 16 | 1.25 | 80 | 0.06 | 130 | 33 | <2 | <10 | 18 |
| 99 MLS-04 | <5 | <2 | 45 | 1080 | <5 | 13 | 1.26 | 80 | 0.09 | 205 | 40 | <2 | <10 | 26 |
| 100 MLS-05 | <5 | <2 | 166 | 550 | <5 | 25 | 1.28 | 80 | 0.04 | 15 | 44 | 2 | <10 | 8 |
| 101 MLS-06 | <5 | <2 | 62 | 370 | <5 | 20 | 1.27 | 80 | 0.07 | 65 | 40 | <2 | <10 | 10 |
| 102 MLS-07 | <5 | 0.2 | 118 | 440 | <5 | 58 | 5.04 | 30 | 0.1 | 3050 | 106 | <2 | <10 | 178 |
| 103 MLS-08 | <5 | <2 | 124 | 490 | <5 | 37 | 2.71 | 10 | 0.08 | 1705 | 62 | <2 | <10 | 76 |
| 104 MMS-01 | <5 | <2 | 84 | 560 | 0.5 | 13 | 7.11 | 10 | 0.18 | >10000 | 43 | 2 | <10 | 116 |
| 105 MMS-02 | 15 | <2 | 58 | 360 | <5 | 15 | 6.47 | 20 | 0.16 | 6050 | 46 | <2 | <10 | 94 |
| 106 MMS-03 | <5 | <2 | 54 | 320 | 0.5 | 22 | 6.02 | 10 | 0.17 | 4970 | 56 | 4 | <10 | 100 |
| 107 MMS-04 | 5 | <2 | 52 | 250 | <5 | 18 | 6.14 | 30 | 0.13 | 5240 | 50 | <2 | <10 | 72 |
| 108 MMS-05 | <5 | <2 | 30 | 270 | <5 | 19 | 4.34 | 30 | 0.11 | 4360 | 60 | 4 | <10 | 68 |
| 109 MMS-06 | <5 | <2 | 20 | 220 | <5 | 26 | 3.93 | 70 | 0.09 | 2500 | 58 | 2 | <10 | 44 |
| 110 MMS-07 | <5 | <2 | 56 | 170 | <5 | 31 | 4.49 | 60 | 0.1 | 2920 | 168 | 6 | <10 | 70 |
| 111 MMS-08 | <5 | <2 | 72 | 300 | <5 | 26 | 4.69 | 60 | 0.12 | 4680 | 140 | 6 | <10 | 74 |
| 112 MMS-09 | <5 | <2 | 66 | 100 | <5 | 22 | 3.40 | 60 | 0.08 | 1550 | 106 | 2 | <10 | 50 |
| 113 MMS-10 | <5 | <2 | 42 | 120 | <5 | 24 | 3.59 | 40 | 0.08 | 3460 | 138 | 10 | <10 | 38 |
| 114 MMS-11 | <5 | <2 | 44 | 110 | <5 | 21 | 3.28 | 40 | 0.07 | 2600 | 210 | <2 | <10 | 48 |
| 115 MMS-12 | <5 | <2 | 46 | 80 | <5 | 17 | 3.56 | 30 | 0.07 | 2600 | 344 | 8 | <10 | 34 |
| 116 MMS-13 | <5 | <2 | 42 | 70 | <5 | 17 | 3.68 | 30 | 0.08 | 2210 | 362 | 8 | <10 | 42 |
| 117 MMS-14 | 10 | <2 | 52 | 80 | <5 | 18 | 3.31 | 30 | 0.06 | 2420 | 398 | 6 | <10 | 48 |
| 118 MMS-15 | <5 | <2 | 68 | 130 | <5 | 20 | 3.31 | 30 | 0.08 | 3470 | 896 | 4 | <10 | 52 |
| 119 MMS-16 | <5 | 0.2 | 100 | 140 | <5 | 22 | 3.28 | 30 | 0.09 | 2290 | 568 | 8 | <10 | 54 |
| 120 MMS-17 | <5 | <2 | 34 | 290 | <5 | 26 | 4.94 | 50 | 0.41 | 4950 | 58 | 2 | <10 | 108 |
| 121 MMS-18 | <5 | <2 | 24 | 810 | 0.5 | 36 | 5.00 | 70 | 0.24 | >10000 | 48 | 6 | <10 | 158 |
| 122 MMS-19 | <5 | <2 | 34 | 260 | <5 | 25 | 4.81 | 40 | 0.22 | 2960 | 60 | 4 | <10 | 74 |
| 123 MMS-20 | <5 | <2 | 56 | 290 | <5 | 29 | 4.10 | 50 | 0.19 | 3220 | 70 | 8 | <10 | 156 |
| 124 MMS-21 | <5 | <2 | 60 | 310 | <5 | 36 | 4.82 | 50 | 0.27 | 3610 | 88 | 4 | <10 | 146 |
| 125 MMS-22 | <5 | <2 | 34 | 230 | <5 | 25 | 4.69 | 90 | 0.12 | 2440 | 110 | 6 | <10 | 60 |
| 126 MMS-23 | <5 | <2 | 28 | 90 | <5 | 23 | 3.84 | 70 | 0.09 | 1785 | 148 | 6 | <10 | 34 |
| 127 MMS-24 | <5 | <2 | 22 | 70 | <5 | 15 | 3.74 | 30 | 0.08 | 1835 | 290 | 4 | <10 | 28 |
| 128 MMS-25 | <5 | <2 | 18 | 100 | <5 | 16 | 3.10 | 70 | 0.1 | 2650 | 78 | 4 | <10 | 22 |
| 129 MMS-26 | <5 | <2 | 14 | 70 | <5 | 25 | 2.91 | 100 | 0.1 | 2450 | 40 | 4 | <10 | 22 |
| 130 MMS-27 | <5 | <2 | 12 | 110 | <5 | 15 | 2.78 | 40 | 0.1 | 2630 | 34 | <2 | <10 | 20 |
| 131 MMS-28 | <5 | <2 | 22 | 100 | <5 | 49 | 2.61 | 40 | 0.08 | 2230 | 42 | 4 | <10 | 20 |
| 132 MMS-29 | 10 | 0.2 | 60 | 980 | <5 | 187 | 6.23 | 30 | 0.1 | 2030 | 178 | <2 | <10 | 78 |
| 133 MMS-30 | <5 | <2 | 92 | 860 | <5 | 111 | 5.91 | 10 | 0.1 | 1905 | 328 | 4 | <10 | 112 |
| 134 MMS-31 | <5 | <2 | 12 | 390 | <5 | 63 | 5.94 | 30 | 0.08 | 1100 | 34 | <2 | <10 | 64 |
| 135 MMS-32 | <5 | <2 | 252 | 460 | <5 | 63 | 3.79 | 40 | 1.04 | 1260 | 280 | 8 | <10 | 404 |
| 136 MMS-33 | <5 | 0.2 | 40 | 1900 | 0.5 | 60 | 6.67 | 50 | 0.14 | 2250 | 92 | <2 | <10 | 110 |
| 137 MMS-34 | <5 | <2 | 52 | 740 | <5 | 74 | 7.71 | 20 | 0.16 | 1965 | 70 | <2 | <10 | 48 |
| 138 MMS-35 | <5 | <2 | 90 | 420 | <5 | 181 | 6.55 | 30 | 0.1 | 1645 | 120 | <2 | <10 | 62 |
| 139 MMS-36 | <5 | <2 | 28 | 600 | <5 | 48 | 1.43 | 40 | 0.06 | 280 | 50 | <2 | <10 | 26 |
| 140 MMS-37 | <5 | <2 | 38 | 600 | <5 | 39 | 1.83 | 30 | 0.1 | 800 | 106 | 2 | <10 | 80 |
| 141 MMS-38 | 15 | 0.4 | 102 | 790 | <5 | 283 | 9.88 | 30 | 0.06 | 1220 | 250 | 2 | <10 | 60 |
| 142 MMS-39 | <5 | <2 | 78 | 1090 | <5 | 33 | 1.75 | 90 | 0.09 | 340 | 50 | 2 | <10 | 40 |
| 143 MMS-40 | <5 | <2 | 18 | 1650 | <5 | 25 | 1.34 | 70 | 0.04 | 85 | 36 | 2 | <10 | 26 |
| 144 MMS-41 | <5 | <2 | 66 | 930 | <5 | 25 | 1.76 | 30 | 0.07 | 120 | 36 | <2 | <10 | 22 |
| 145 MMS-42 | <5 | <2 | 10 | 590 | <5 | 22 | 2.29 | 30 | 0.07 | 305 | 30 | <2 | <10 | 22 |
| 146 MMS-43 | <5 | <2 | 58 | 590 | <5 | 17 | 1.30 | 40 | 0.07 | 440 | 32 | <2 | <10 | 22 |
| 147 MMS-44 | <5 | 0.4 | 68 | 260 | 0.5 | 51 | 3.43 | 70 | 3.65 | 1940 | 202 | <2 | <10 | 420 |
| 148 MMS-45 | 15 | 0.6 | 94 | 490 | <5 | 231 | 7.63 | 40 | 0.06 | 2140 | 268 | 6 | <10 | 206 |
| 149 MMS-46 | 10 | 0.2 | 90 | 470 | <5 | 121 | 4.92 | 50 | 0.07 | 1540 | 188 | 6 | <10 | 66 |
| 150 MMS-47 | <5 | <2 | 88 | 1380 | <5 | 28 | 1.31 | 60 | 0.08 | 940 | 88 | 2 | <10 | 68 |
| 151 MMS-48 | <5 | 0.2 | 106 | 380 | <5 | 40 | 3.30 | 60 | 0.08 | 1720 | 100 | 2 | <10 | 104 |
| 152 MMS-49 | <5 | 0.2 | 120 | 890 | <5 | 46 | 7.66 | 30 | 0.07 | 5110 | 106 | <2 | <10 | 560 |
| 153 MMS-50 | <5 | <2 | 130 | 690 | <5 | 63 | 4.25 | 60 | 0.1 | 2830 | 116 | 8 | <10 | 190 |
| 154 MMS-51 | <5 | 0.2 | 122 | 440 | <5 | 71 | 4.99 | 40 | 0.07 | 4430 | 250 | 6 | <10 | 208 |
| 155 MNS-01 | <5 | <2 | 164 | 70 | <5 | 31 | 4.29 | 30 | 0.09 | 1195 | 434 | 12 | <10 | 58 |
| 156 MNS-02 | <5 | 0.2 | 94 | 130 | <5 | 24 | 3.29 | 20 | 0.07 | 155 | 106 | 2 | <10 | 24 |
| 157 MNS-03 | <5 | <2 | 112 | 160 | <5 | 33 | 3.94 | 20 | 0.07 | 430 | 82 | 6 | <10 | 32 |
| 158 MNS-04 | <5 | <2 | 226 | 110 | <5 | 43 | 6.97 | 150 | 0.06 | 2230 | 500 | 10 | <10 | 146 |
| 159 MNS-05 | <5 | 0.2 | 122 | 90 | <5 | 47 | 7.50 | 150 | 0.05 | 3250 | 710 | 18 | <10 | 322 |
| 160 MNS-06 | <5 | <2 | 126 | 80 | <5 | 119 | 9.60 | 70 | 0.07 | 4640 | 576 | 30 | <10 | 248 |
| 161 MNS-07 | <5 | <2 | 116 | 100 | <5 | 74 | 7.12 | 50 | 0.18 | 3210 | 516 | 22 | <10 | 264 |
| 162 MNS-08 | 5 | 0.2 | 120 | 130 | <5 | 76 | 7.64 | 70 | 0.16 | 4490 | 510 | 18 | <10 | 416 |
| 163 MNS-09 | <5 | <2 | 162 | 140 | <5 | 78 | 7.16 | 130 | 0.12 | 3140 | 526 | 16 | <10 | 360 |
| 164 MNS-10 | <5 | <2 | 114 | 120 | <5 | 73 | 6.92 | 70 | 0.14 | 3370 | 524 | 16 | <10 | 296 |
| 165 MNS-11 | <5 | <2 | 42 | 260 | <5 | 48 | 4.07 | 20 | 0.19 | 1195 | 92 | <2 | <10 | 212 |
| 166 MNS-12 | <5 | <2 | 196 | 60 | <5 | 43 | 8.33 | 90 | 0.06 | 3660 | 520 | 34 | <10 | 242 |
| 167 MNS-13 | <5 | <2 | 194 | 50 | <5 | 44 | 8.27 | 80 | 0.07 | 2550 | 324 | 30 | <10 | 206 |
| 168 MNS-14 | <5 | <2 | 140 | 50 | <5 | 33 | 6.99 | 50 | 0.04 | 1430 | 114 | 14 | <10 | 90 |
| 169 MNS-15 | <5 | <2 | 126 | 40 | <5 | 32 | 6.41 | 60 | 0.04 | 945 | 102 | 10 | <10 | 102 |
| 170 MNS-16 | <5 | <2 | 212 | 40 | <5 | 41 | 8.24 | 70 | 0.05 | 2490 | 244 | 20 | <10 | 176 |
| 171 MNS-17 | <5 | <2 | 62 | 40 | <5 | 35 | 3.64 | 50 | 0.06 | 1690 | 52 | 2 | <10 | 66 |
| 172 MNS-18 | 10 | <2 | 70 | 50 | <5 | 43 | 5.14 | 50 | 0.05 | 1220 | 48 | 4 | <10 | 58 |
| 173 MNS-19 | <5 | <2 | 102 | 30 | <5 | 50 | 7.91 | 40 | 0.04 | 1555 | 72 | 2 | <10 | 72 |
| 174 MNS-20 | <5 | <2 | 114 | 30 | <5 | 32 | 7.86 | 60 | 0.04 | 680 | 60 | 8 | <10 | 74 |
| 175 MNS-21 | <5 | <2 | 112 | 50 | <5 | 28 | 6.82 | 70 | 0.05 | 830 | 52 | 4 | <10 | 56 |
| 176 MNS-22 | <5 | <2 | 110 | 80 | <5 | 31 | 6.25 | 70 | 0.07 | 730 | 56 | <2 | <10 | 56 |
| 177 MNS-23 | <5 | <2 | 134 | 90 | <5 | 33 | 6.86 | 60 | 0.09 | 715 | 66 | <2 | <10 | 68 |
| 178 MNS-24 | <5 | <2 | 84 | 80 | <5 | 43 | 5.05 | 50 | 0.08 | 735 | 110 | <2 | <10 | 80 |
| 179 MNS-25 | <5 | <2 | 74 | 120 | <5 | 53 | 5.30 | 60 | 0.1 | 605 | 138 | <2 | <10 | 106 |
| 180 MNS-26 | 15 | <2 | 84 | 40 | <5 | 16 | 1.84 | 30 | 0.03 | 85 | 30 | <2 | <10 | 6 |

Appendix 5 Geochemical Data of Soil Sample in Mao Kanai Area

(3/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 181 MNS-27 | 5 | <2 | 60 | 60 | <5 | 28 | 3.47 | 30 | 0.06 | 1030 | 44 | <2 | <10 | 20 |
| 182 MNS-28 | 10 | <2 | 60 | 80 | <5 | 35 | 4.64 | <10 | 0.08 | 1860 | 48 | <2 | <10 | 34 |
| 183 MNS-29 | <5 | <2 | 42 | 80 | <5 | 33 | 5.22 | 50 | 0.06 | 1820 | 40 | <2 | <10 | 76 |
| 184 MNS-30 | <5 | <2 | 50 | 80 | <5 | 43 | 5.92 | 30 | 0.07 | 2030 | 49 | <2 | <10 | 45 |
| 185 MNS-31 | <5 | <2 | 52 | 100 | <5 | 73 | 5.84 | 30 | 0.08 | 1625 | 58 | <2 | <10 | 36 |
| 186 MNS-32 | <5 | <2 | 58 | 150 | <5 | 49 | 4.29 | 40 | 0.09 | 615 | 52 | <2 | <10 | 28 |
| 187 MNS-33 | <5 | <2 | 52 | 430 | <5 | 28 | 5.44 | <10 | 0.16 | 1345 | 22 | <2 | <10 | 22 |
| 188 MNS-34 | <5 | <2 | 28 | 120 | <5 | 58 | 4.03 | 20 | 0.11 | 645 | 18 | <2 | <10 | 22 |
| 189 MNS-35 | <5 | <2 | 74 | 180 | <5 | 62 | 5.32 | 50 | 0.13 | 1435 | 42 | <2 | <10 | 34 |
| 190 MNS-36 | <5 | <2 | 46 | 90 | <5 | 53 | 4.84 | 50 | 0.08 | 615 | 40 | <2 | <10 | 28 |
| 191 MNS-37 | <5 | <2 | 20 | 70 | <5 | 48 | 4.12 | 30 | 0.09 | 965 | 64 | <2 | <10 | 26 |
| 192 MNS-38 | <5 | <2 | 18 | 40 | <5 | 58 | 3.77 | 20 | 0.07 | 950 | 28 | <2 | <10 | 14 |
| 193 MNS-39 | <5 | <2 | 34 | 120 | <5 | 28 | 2.60 | 20 | 0.05 | 960 | 32 | <2 | <10 | 24 |
| 194 MNS-40 | <5 | <2 | 32 | 210 | <5 | 45 | 3.65 | 20 | 0.08 | 1835 | 46 | <2 | <10 | 126 |
| 195 MNS-41 | <5 | <2 | 38 | 430 | <5 | 92 | 4.31 | 30 | 0.1 | 2450 | 136 | <2 | <10 | 138 |
| 196 MNS-42 | <5 | <2 | 256 | 710 | 2 | 81 | 6.46 | 10 | 0.16 | 2290 | 104 | <2 | <10 | 242 |
| 197 MNS-43 | <5 | <2 | 114 | 1010 | 0.5 | 53 | 4.39 | 20 | 0.42 | 2680 | 40 | <2 | <10 | 166 |
| 198 MNS-44 | <5 | <2 | 22 | 830 | 3 | 23 | 3.76 | 10 | 0.32 | 3680 | 138 | <2 | <10 | 376 |
| 199 MNS-45 | <5 | <2 | 56 | 1320 | 0.5 | 60 | 5.78 | 40 | 0.19 | 4340 | 168 | <2 | <10 | 214 |
| 200 MNS-46 | <5 | 0.2 | 48 | 760 | 2.5 | 20 | 5.07 | 60 | 1.82 | 6790 | 814 | <2 | <10 | 1130 |
| 201 MNS-47 | <5 | <2 | 98 | 80 | <5 | 36 | 4.52 | 50 | 0.05 | 255 | 70 | <2 | <10 | 30 |
| 202 MNS-48 | <5 | <2 | 46 | 60 | <5 | 27 | 2.85 | 20 | 0.06 | 525 | 30 | <2 | <10 | 34 |
| 203 MNS-49 | <5 | <2 | 28 | 120 | <5 | 25 | 3.14 | 40 | 0.07 | 855 | 28 | <2 | <10 | 32 |
| 204 MNS-50 | <5 | <2 | 28 | 540 | <5 | 22 | 2.75 | 20 | 0.07 | 970 | 38 | <2 | <10 | 40 |
| 205 MNS-51 | <5 | 1.4 | 112 | 4750 | 0.5 | 336 | 11.50 | 30 | 0.63 | 8010 | 760 | <2 | <10 | 94 |
| 206 MNS-52 | <5 | 1 | 116 | 4940 | 0.5 | 484 | >15.00 | 10 | 0.7 | 9950 | 230 | 8 | <10 | 86 |
| 207 MNS-53 | <5 | <2 | 90 | 850 | <5 | 86 | 6.10 | 20 | 0.17 | 2460 | 280 | 2 | <10 | 106 |
| 208 MNS-54 | <5 | <2 | 36 | 550 | <5 | 45 | 3.65 | 50 | 0.16 | 1815 | 82 | <2 | <10 | 76 |
| 209 MNS-55 | <5 | <2 | 62 | 420 | <5 | 40 | 3.92 | 10 | 0.09 | 2350 | 98 | 6 | <10 | 90 |
| 210 MNS-56 | <5 | <2 | 60 | 820 | <5 | 44 | 3.20 | 10 | 0.07 | 2060 | 70 | <2 | <10 | 100 |
| 211 MNS-57 | <5 | <2 | 22 | 520 | <5 | 31 | 2.16 | 30 | 0.08 | 1040 | 38 | <2 | <10 | 48 |
| 212 MNS-58 | <5 | <2 | 22 | 230 | <5 | 17 | 0.82 | 40 | 0.06 | 405 | 34 | <2 | <10 | 10 |
| 213 MNS-59 | <5 | <2 | 18 | 150 | <5 | 61 | 4.30 | 20 | 0.15 | 1215 | 32 | <2 | <10 | 18 |
| 214 MNS-60 | <5 | <2 | 24 | 90 | <5 | 47 | 3.17 | 30 | 0.09 | 935 | 34 | <2 | <10 | 20 |
| 215 MNS-61 | <5 | <2 | 22 | 90 | <5 | 37 | 2.88 | 30 | 0.07 | 710 | 54 | <2 | <10 | 24 |
| 216 MNS-62 | <5 | <2 | 28 | 120 | <5 | 26 | 3.67 | 40 | 0.16 | 860 | 34 | <2 | <10 | 26 |
| 217 MNS-63 | 10 | 0.2 | 82 | 640 | <5 | 254 | 8.44 | 40 | 0.08 | 2620 | 870 | 2 | <10 | 106 |
| 218 MNS-64 | 15 | 1 | 176 | 880 | 0.5 | 676 | >15.00 | 50 | 0.04 | 6980 | 1275 | 12 | <10 | 174 |
| 219 MNS-65 | 20 | 0.6 | 72 | 2200 | 0.5 | 537 | >15.00 | 20 | 0.03 | 6800 | 128 | 6 | <10 | 106 |
| 220 MNS-66 | 30 | 0.2 | 128 | 210 | <5 | 301 | >15.00 | 30 | 0.02 | 2830 | 108 | <2 | <10 | 62 |
| 221 MNS-67 | 20 | <2 | 110 | 140 | <5 | 315 | >15.00 | 20 | 0.03 | 2320 | 128 | 2 | <10 | 44 |
| 222 MNS-68 | 15 | <2 | 102 | 220 | <5 | 306 | 15.00 | 40 | 0.06 | 3970 | 114 | 2 | <10 | 96 |
| 223 MNS-69 | <5 | <2 | 22 | 510 | <5 | 185 | 12.55 | 30 | 0.07 | 5310 | 34 | <2 | <10 | 70 |
| 224 MNS-70 | 15 | <2 | 76 | 230 | <5 | 387 | 7.51 | 40 | 0.03 | 2230 | 74 | <2 | <10 | 42 |
| 225 MNS-71 | 25 | <2 | 192 | 180 | <5 | 234 | 9.96 | 40 | 0.05 | 1360 | 42 | 2 | <10 | 28 |
| 226 MNS-72 | 5 | <2 | 64 | 220 | <5 | 221 | 8.63 | 50 | 0.07 | 1705 | 230 | <2 | <10 | 74 |
| 227 MNS-73 | 10 | <2 | 50 | 250 | <5 | 205 | 7.02 | 90 | 0.06 | 1705 | 174 | <2 | <10 | 62 |
| 228 MNS-74 | <5 | <2 | 30 | 80 | <5 | 270 | 4.22 | 30 | 0.04 | 210 | 28 | <2 | <10 | 14 |
| 229 MNS-75 | 15 | <2 | 22 | 150 | <5 | 418 | 3.78 | 60 | 0.05 | 860 | 86 | <2 | <10 | 18 |
| 230 MNS-76 | <5 | <2 | 28 | 210 | <5 | 398 | 3.59 | 100 | 0.08 | 865 | 178 | <2 | <10 | 20 |
| 231 MNS-77 | 10 | <2 | 22 | 220 | <5 | 200 | 2.93 | 130 | 0.07 | 1040 | 108 | <2 | <10 | 16 |
| 232 MNS-78 | <5 | <2 | 36 | 260 | <5 | 288 | 4.86 | 50 | 0.05 | 900 | 210 | <2 | <10 | 34 |
| 233 MNS-79 | 5 | <2 | 82 | 350 | <5 | 54 | 4.42 | 20 | 0.2 | 2690 | 84 | <2 | <10 | 62 |
| 234 MNS-80 | 10 | <2 | 76 | 1100 | 0.5 | 216 | 7.90 | 20 | 0.09 | 2390 | 178 | <2 | <10 | 108 |
| 235 MNS-81 | 20 | 0.2 | 130 | 2540 | <5 | 294 | 7.27 | 40 | 0.07 | 2470 | 182 | <2 | <10 | 126 |
| 236 MNS-82 | 20 | <2 | 238 | 1510 | <5 | 270 | 6.69 | 50 | 0.1 | 2080 | 236 | <2 | <10 | 120 |
| 237 MNS-83 | 20 | <2 | 140 | 360 | <5 | 137 | 7.23 | 20 | 0.05 | 1320 | 184 | <2 | <10 | 50 |
| 238 MNS-84 | <5 | <2 | 74 | 890 | <5 | 140 | 9.94 | 10 | 0.06 | 1960 | 84 | <2 | <10 | 30 |
| 239 MNS-85 | 5 | <2 | 62 | 280 | <5 | 284 | 8.66 | 30 | 0.09 | 2340 | 136 | <2 | <10 | 46 |
| 240 MNS-86 | 10 | <2 | 42 | 120 | <5 | 282 | 7.27 | 30 | 0.07 | 2240 | 106 | <2 | <10 | 56 |
| 241 MNS-87 | 5 | <2 | 32 | 100 | <5 | 234 | 6.04 | 40 | 0.06 | 2010 | 118 | <2 | <10 | 50 |
| 242 MNS-88 | <5 | <2 | 26 | 240 | <5 | 238 | 5.94 | 120 | 0.05 | 1060 | 124 | <2 | <10 | 22 |
| 243 MNS-89 | <5 | <2 | 18 | 240 | <5 | 169 | 3.53 | 30 | 0.06 | 400 | 114 | <2 | <10 | 18 |
| 244 MNS-90 | <5 | <2 | 14 | 160 | <5 | 82 | 2.49 | 10 | 0.08 | 370 | 40 | <2 | <10 | 16 |
| 245 MNS-91 | 5 | <2 | 16 | 180 | <5 | 154 | 2.94 | 10 | 0.08 | 335 | 30 | <2 | <10 | 20 |
| 246 MNS-92 | <5 | 0.2 | 98 | 170 | <5 | 460 | 4.64 | 40 | 0.09 | 620 | 66 | <2 | <10 | 38 |
| 247 MNS-93 | 10 | 0.2 | 272 | 220 | <5 | 1065 | 8.90 | 110 | 0.16 | 2790 | 146 | <2 | <10 | 130 |
| 248 MNS-94 | <5 | <2 | 44 | 130 | <5 | 41 | 3.38 | 40 | 0.06 | 445 | 54 | <2 | <10 | 30 |
| 249 MNS-95 | <5 | <2 | 62 | 310 | <5 | 85 | 5.55 | 30 | 0.06 | 210 | 70 | <2 | <10 | 36 |
| 250 MNS-96 | <5 | <2 | 62 | 520 | <5 | 33 | 4.56 | 30 | 0.07 | 1970 | 66 | <2 | <10 | 72 |
| 251 MNS-97 | 10 | <2 | 60 | 670 | <5 | 60 | 5.44 | 10 | 0.21 | 2920 | 102 | <2 | <10 | 258 |
| 252 MNS-98 | 15 | <2 | 54 | 770 | <5 | 46 | 5.54 | 30 | 0.15 | 1750 | 118 | <2 | <10 | 300 |
| 253 MNS-99 | 5 | <2 | 40 | 440 | <5 | 53 | 5.97 | 30 | 0.08 | 3160 | 74 | <2 | <10 | 278 |
| 254 MNS-100 | 10 | <2 | 42 | 490 | <5 | 39 | 5.12 | 30 | 0.08 | 3320 | 58 | <2 | <10 | 176 |
| 255 MNS-101 | 10 | <2 | 36 | 690 | 0.5 | 77 | 5.75 | 20 | 0.23 | 4230 | 62 | <2 | <10 | 324 |
| 256 MNS-102 | 5 | <2 | 50 | 60 | <5 | 33 | 3.13 | 10 | 0.05 | 625 | 24 | <2 | <10 | 28 |
| 257 MNS-103 | 10 | <2 | 48 | 110 | <5 | 36 | 3.69 | 30 | 0.05 | 930 | 32 | <2 | <10 | 52 |
| 258 MNS-104 | <5 | <2 | 54 | 100 | <5 | 30 | 3.31 | 30 | 0.06 | 1165 | 40 | <2 | <10 | 60 |
| 259 MNS-105 | 5 | <2 | 32 | 200 | <5 | 26 | 2.20 | 40 | 0.07 | 545 | 43 | 2 | <10 | 56 |
| 260 MNS-106 | <5 | <2 | 18 | 210 | <5 | 19 | 1.60 | 50 | 0.1 | 470 | 34 | <2 | <10 | 32 |
| 261 MNS-107 | 5 | <2 | 20 | 200 | <5 | 17 | 1.50 | 40 | 0.08 | 160 | 32 | <2 | <10 | 14 |
| 262 MPS-01 | 15 | <2 | 46 | 180 | <5 | 17 | 5.60 | 70 | 0.12 | 1510 | 58 | <2 | <10 | 110 |
| 263 MPS-02 | 10 | <2 | 26 | 240 | <5 | 20 | 4.86 | 80 | 0.14 | 2030 | 54 | <2 | <10 | 76 |
| 264 MPS-03 | <5 | <2 | 58 | 320 | <5 | 59 | 6.15 | 60 | 0.25 | 4550 | 62 | 8 | 10 | 110 |
| 265 MPS-04 | <5 | <2 | 52 | 180 | <5 | 45 | 5.70 | 150 | 0.13 | 3270 | 72 | 6 | 10 | 90 |
| 266 MPS-05 | 10 | <2 | 54 | 160 | <5 | 58 | 4.22 | 100 | 0.14 | 2340 | 64 | 12 | <10 | 70 |
| 267 MPS-06 | 5 | <2 | 40 | 160 | <5 | 56 | 3.91 | 170 | 0.12 | 1625 | 58 | 16 | <10 | 34 |
| 268 MPS-07 | 10 | <2 | 18 | 110 | <5 | 8 | 5.75 | 80 | 0.12 | 2440 | 38 | 8 | <10 | 24 |
| 269 MPS-08 | 5 | <2 | 18 | 70 | <5 | 8 | 4.35 | 80 | 0.09 | 780 | 28 | 4 | <10 | 20 |
| 270 MPS-09 | <5 | <2 | 14 | 100 | <5 | 8 | 3.81 | 70 | 0.15 | 1270 | 34 | 2 | <10 | 28 |

Appendix 5 Geochemical Data of Soil Sample in Mac Kanai Area

(4/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 271 MPS-10 | <5 | <2 | 14 | 100 | <5 | 10 | 3.85 | 120 | 0.13 | 525 | 28 | 2 | <10 | 26 |
| 272 MPS-11 | <5 | <2 | 20 | 120 | <5 | 13 | 4.99 | 70 | 0.14 | 955 | 28 | 2 | <10 | 28 |
| 273 MPS-12 | <5 | <2 | 54 | 120 | <5 | 111 | 7.39 | 120 | 0.06 | 1175 | 44 | 30 | <10 | 48 |
| 274 MPS-13 | 5 | <2 | 99 | 120 | <5 | 166 | 6.05 | 70 | 0.03 | 1890 | 36 | 30 | <10 | 30 |
| 275 MPS-14 | <5 | <2 | 92 | 90 | <5 | 125 | 8.89 | 90 | 0.07 | 2790 | 50 | 16 | <10 | 42 |
| 276 MPS-15 | 5 | <2 | 60 | 120 | <5 | 81 | 8.21 | 70 | 0.07 | 4120 | 46 | 18 | <10 | 30 |
| 277 MPS-16 | <5 | <2 | 90 | 140 | <5 | 101 | 7.92 | 80 | 0.05 | 3530 | 90 | 14 | <10 | 30 |
| 278 MPS-17 | <5 | <2 | 78 | 340 | <5 | 59 | 6.00 | 90 | 0.05 | 4280 | 230 | 12 | <10 | 54 |
| 279 MPS-18 | <5 | 0.2 | 102 | 290 | <5 | 56 | 6.01 | 110 | 0.06 | 4000 | 342 | 12 | <10 | 114 |
| 280 MPS-19 | <5 | <2 | 136 | 120 | <5 | 60 | 7.71 | 60 | 0.08 | 5730 | 478 | 10 | <10 | 98 |
| 281 MPS-20 | 5 | <2 | 80 | 70 | <5 | 54 | 6.95 | 50 | 0.06 | 2970 | 159 | 10 | <10 | 56 |
| 282 MPS-21 | <5 | <2 | 63 | 80 | <5 | 67 | 6.65 | 60 | 0.06 | 2620 | 224 | 10 | <10 | 50 |
| 283 MPS-22 | <5 | <2 | 94 | 150 | <5 | 78 | 7.79 | 30 | 0.11 | 4330 | 230 | 10 | <10 | 58 |
| 284 MPS-23 | <5 | <2 | 114 | 180 | <5 | 76 | 8.32 | 30 | 0.12 | 1145 | 356 | 8 | <10 | 102 |
| 285 MPS-24 | 5 | <2 | 74 | 250 | <5 | 54 | 5.79 | 30 | 0.17 | 945 | 178 | 12 | <10 | 226 |
| 286 MPS-25 | 5 | <2 | 134 | 40 | <5 | 103 | 8.88 | 40 | 0.04 | 2370 | 552 | 28 | <10 | 182 |
| 287 MPS-26 | <5 | <2 | 168 | 50 | <5 | 154 | 10.75 | 100 | 0.04 | 2260 | 368 | 43 | <10 | 182 |
| 288 MPS-27 | 5 | <2 | 128 | 40 | <5 | 82 | 9.13 | 60 | 0.04 | 1805 | 242 | 22 | <10 | 164 |
| 289 MPS-28 | <5 | <2 | 122 | 40 | <5 | 72 | 8.41 | 110 | 0.04 | 1650 | 220 | 18 | <10 | 164 |
| 290 MPS-29 | <5 | <2 | 126 | 160 | <5 | 110 | 8.75 | 150 | 0.05 | 3300 | 764 | 26 | <10 | 236 |
| 291 MPS-30 | <5 | <2 | 132 | 70 | <5 | 69 | 8.19 | 50 | 0.08 | 3560 | 378 | 10 | <10 | 204 |
| 292 MPS-31 | 10 | <2 | 176 | 40 | <5 | 47 | 8.94 | 90 | 0.06 | 3050 | 332 | 18 | <10 | 228 |
| 293 MPS-32 | 10 | <2 | 174 | 40 | <5 | 41 | 8.23 | 110 | 0.05 | 2710 | 272 | 16 | <10 | 196 |
| 294 MPS-33 | <5 | <2 | 150 | 50 | <5 | 41 | 7.68 | 110 | 0.04 | 1750 | 196 | 10 | <10 | 138 |
| 295 MPS-34 | <5 | <2 | 136 | 50 | <5 | 42 | 8.28 | 90 | 0.05 | 1725 | 190 | 4 | <10 | 100 |
| 296 MPS-35 | <5 | <2 | 94 | 60 | <5 | 32 | 6.40 | 120 | 0.05 | 1615 | 154 | <2 | <10 | 94 |
| 297 MPS-36 | <5 | <2 | 90 | 50 | <5 | 31 | 6.09 | 90 | 0.05 | 1015 | 106 | <2 | <10 | 86 |
| 298 MPS-37 | <5 | <2 | 94 | 50 | <5 | 29 | 6.45 | 60 | 0.07 | 870 | 92 | <2 | <10 | 82 |
| 299 MPS-38 | <5 | <2 | 76 | 50 | <5 | 28 | 6.36 | 70 | 0.06 | 970 | 100 | <2 | <10 | 72 |
| 300 MPS-39 | <5 | <2 | 62 | 50 | <5 | 26 | 5.74 | 60 | 0.07 | 790 | 94 | <2 | <10 | 66 |
| 301 MPS-40 | <5 | <2 | 58 | 60 | <5 | 28 | 5.15 | 70 | 0.05 | 955 | 108 | <2 | <10 | 74 |
| 302 MPS-41 | <5 | <2 | 60 | 60 | <5 | 32 | 5.80 | 90 | 0.07 | 480 | 84 | <2 | <10 | 66 |
| 303 MPS-42 | <5 | <2 | 122 | 580 | <5 | 47 | 2.63 | 40 | 0.08 | 1325 | 262 | <2 | <10 | 76 |
| 304 MPS-43 | <5 | <2 | 72 | 340 | <5 | 45 | 3.80 | 50 | 0.12 | 1130 | 132 | 2 | <10 | 102 |
| 305 MPS-44 | <5 | <2 | 80 | 540 | <5 | 36 | 4.07 | 50 | 0.14 | 1305 | 136 | <2 | <10 | 146 |
| 306 MPS-45 | <5 | <2 | 86 | 580 | <5 | 46 | 5.22 | 60 | 0.13 | 580 | 118 | <2 | <10 | 170 |
| 307 MPS-46 | <5 | <2 | 80 | 310 | <5 | 45 | 8.18 | 80 | 0.11 | 1795 | 78 | <2 | <10 | 468 |
| 308 MPS-47 | <5 | <2 | 52 | 460 | <5 | 35 | 6.40 | 40 | 0.08 | 1120 | 68 | <2 | <10 | 308 |
| 309 MPS-48 | <5 | <2 | 104 | 700 | <5 | 70 | 3.47 | 130 | 0.12 | 3310 | 166 | 6 | <10 | 262 |
| 310 MPS-49 | <5 | <2 | 82 | 300 | <5 | 65 | 6.44 | 70 | 0.07 | 725 | 64 | 2 | <10 | 214 |
| 311 MPS-50 | <5 | <2 | 70 | 800 | <5 | 17 | 0.66 | 40 | 0.04 | 410 | 46 | 2 | <10 | 24 |
| 312 MPS-51 | <5 | <2 | 36 | 580 | <5 | 19 | 1.41 | 50 | 0.07 | 505 | 36 | 2 | <10 | 22 |
| 313 MPS-52 | <5 | <2 | 26 | 910 | <5 | 18 | 1.41 | 50 | 0.05 | 640 | 32 | <2 | <10 | 20 |
| 314 MPS-53 | <5 | <2 | 94 | 1050 | <5 | 26 | 2.28 | 50 | 0.04 | 460 | 48 | 2 | <10 | 56 |
| 315 MPS-54 | <5 | <2 | 90 | 1140 | <5 | 26 | 1.53 | 90 | 0.06 | 450 | 46 | 2 | <10 | 26 |
| 316 MPS-55 | <5 | <2 | 80 | 420 | <5 | 16 | 2.30 | 70 | 0.04 | 90 | 34 | 4 | <10 | 32 |
| 317 MPS-56 | <5 | <2 | 88 | 750 | <5 | 78 | 2.64 | 40 | 0.1 | 375 | 50 | <2 | <10 | 40 |
| 318 MPS-57 | <5 | <2 | 46 | 1140 | <5 | 31 | 3.99 | 40 | 0.1 | 145 | 78 | <2 | <10 | 68 |
| 319 MPS-58 | <5 | <2 | 28 | 240 | <5 | 29 | 2.43 | 50 | 0.08 | 250 | 50 | 2 | <10 | 42 |
| 320 MPS-59 | <5 | <2 | 20 | 140 | <5 | 35 | 4.20 | 30 | 0.07 | 660 | 26 | <2 | <10 | 54 |
| 321 MPS-60 | <5 | <2 | 138 | 300 | <5 | 37 | 3.97 | 50 | 0.07 | 1565 | 86 | 4 | <10 | 72 |
| 322 MPS-61 | <5 | <2 | 152 | 430 | <5 | 36 | 3.87 | 30 | 0.09 | 2050 | 90 | 8 | <10 | 84 |
| 323 MPS-62 | <5 | <2 | 400 | 320 | <5 | 67 | 4.30 | 50 | 0.09 | 2390 | 90 | 10 | <10 | 80 |
| 324 MPS-63 | <5 | 0.2 | 102 | 530 | 0.5 | 156 | 4.69 | 110 | 0.16 | 5240 | 502 | 20 | <10 | 288 |
| 325 MPS-64 | <5 | 0.6 | 148 | 450 | 1 | 403 | 7.54 | 430 | 0.23 | 5240 | 2250 | 136 | <10 | 448 |
| 326 MPS-65 | 10 | 1.2 | 86 | 330 | 1.5 | 139 | 7.18 | 90 | 0.23 | 5130 | 1720 | 68 | <10 | 912 |
| 327 MPS-66 | <5 | <2 | 96 | 160 | <5 | 148 | 9.88 | 580 | 0.14 | 4100 | 1780 | 52 | <10 | 642 |
| 328 MPS-67 | <5 | <2 | 90 | 160 | 0.5 | 91 | 8.09 | 210 | 0.37 | 2780 | 1110 | 34 | <10 | 660 |
| 329 MPS-68 | 5 | <2 | 60 | 240 | <5 | 55 | 5.06 | 10 | 0.25 | 2200 | 268 | 8 | <10 | 288 |
| 330 MPS-69 | <5 | <2 | 69 | 240 | <5 | 51 | 6.40 | 40 | 0.11 | 1260 | 70 | <2 | <10 | 182 |
| 331 MPS-70 | <5 | <2 | 26 | 80 | <5 | 35 | 3.54 | 40 | 0.06 | 910 | 46 | <2 | <10 | 48 |
| 332 MPS-71 | <5 | <2 | 48 | 140 | <5 | 35 | 4.23 | 100 | 0.06 | 335 | 54 | <2 | <10 | 40 |
| 333 MPS-72 | <5 | <2 | 68 | 80 | <5 | 35 | 5.95 | 100 | 0.06 | 450 | 50 | <2 | <10 | 50 |
| 334 MPS-73 | <5 | <2 | 72 | 80 | <5 | 43 | 6.74 | 70 | 0.06 | 435 | 54 | <2 | <10 | 50 |
| 335 MPS-74 | <5 | <2 | 66 | 60 | <5 | 34 | 6.25 | 100 | 0.05 | 530 | 46 | <2 | <10 | 44 |
| 336 MPS-75 | <5 | <2 | 74 | 70 | <5 | 38 | 6.77 | 60 | 0.07 | 610 | 48 | <2 | <10 | 58 |
| 337 MPS-76 | <5 | <2 | 86 | 80 | <5 | 41 | 7.11 | 70 | 0.08 | 665 | 54 | <2 | <10 | 70 |
| 338 MPS-77 | <5 | <2 | 128 | 80 | <5 | 41 | 7.41 | 80 | 0.07 | 930 | 50 | <2 | <10 | 92 |
| 339 MPS-78 | <5 | <2 | 146 | 130 | <5 | 41 | 6.34 | 70 | 0.06 | 890 | 52 | <2 | <10 | 62 |
| 340 MPS-79 | 5 | <2 | 126 | 70 | <5 | 27 | 4.48 | 40 | 0.05 | 405 | 36 | 2 | <10 | 24 |
| 341 MPS-80 | 15 | <2 | 44 | 140 | <5 | 36 | 2.75 | 20 | 0.06 | 215 | 64 | <2 | <10 | 32 |
| 342 MPS-81 | <5 | <2 | 36 | 70 | <5 | 21 | 2.20 | 10 | 0.05 | 240 | 46 | <2 | <10 | 34 |
| 343 MPS-82 | <5 | <2 | 54 | 120 | <5 | 39 | 4.09 | 30 | 0.09 | 1780 | 90 | <2 | <10 | 130 |
| 344 MQS-01 | <5 | <2 | 90 | 120 | <5 | 158 | 5.76 | 10 | 0.06 | 1175 | 66 | <2 | <10 | 80 |
| 345 MQS-02 | <5 | <2 | 68 | 160 | <5 | 114 | 6.07 | 10 | 0.06 | 2550 | 86 | <2 | <10 | 98 |
| 346 MQS-03 | <5 | <2 | 152 | 130 | <5 | 71 | 6.89 | 30 | 0.08 | 2790 | 102 | <2 | <10 | 360 |
| 347 MQS-04 | <5 | <2 | 148 | 140 | <5 | 47 | 4.18 | 30 | 0.06 | 1210 | 92 | <2 | <10 | 146 |
| 348 MQS-05 | <5 | <2 | 132 | 140 | <5 | 49 | 3.40 | 10 | 0.07 | 800 | 74 | <2 | <10 | 98 |
| 349 MQS-06 | <5 | <2 | 53 | 270 | <5 | 30 | 2.43 | 30 | 0.07 | 755 | 86 | <2 | <10 | 130 |
| 350 MQS-07 | <5 | <2 | 72 | 230 | <5 | 58 | 6.83 | <10 | 0.1 | 2930 | 58 | <2 | <10 | 310 |
| 351 MQS-08 | <5 | 0.2 | 176 | 260 | <5 | 122 | 8.32 | 10 | 0.07 | 4050 | 162 | <2 | <10 | 388 |
| 352 MQS-09 | 10 | <2 | 118 | 240 | <5 | 49 | 5.17 | 10 | 0.08 | 1515 | 84 | <2 | <10 | 132 |
| 353 MQS-10 | <5 | <2 | 100 | 460 | <5 | 67 | 4.85 | 30 | 0.07 | 2720 | 174 | <2 | <10 | 84 |
| 354 MQS-11 | <5 | 0.2 | 452 | 1850 | <5 | 89 | 6.92 | 300 | 0.77 | 6410 | 436 | <2 | <10 | 172 |
| 355 MQS-12 | <5 | <2 | 60 | 440 | <5 | 37 | 1.91 | 40 | 0.16 | 520 | 82 | <2 | <10 | 88 |
| 356 MQS-13 | <5 | 0.2 | 172 | 370 | 1.5 | 78 | 3.31 | 170 | 1.31 | 400 | 136 | <2 | <10 | 196 |
| 357 MQS-14 | <5 | <2 | 218 | 1100 | <5 | 35 | 1.22 | 10 | 0.03 | 210 | 160 | 2 | <10 | 26 |
| 358 MQS-15 | <5 | <2 | 104 | 2100 | <5 | 55 | 2.86 | 40 | 0.05 | 265 | 56 | 2 | <10 | 26 |
| 359 MQS-16 | <5 | <2 | 38 | 260 | <5 | 24 | 2.00 | 40 | 0.04 | 155 | 40 | <2 | <10 | 14 |
| 360 MQS-17 | <5 | <2 | 20 | 160 | <5 | 24 | 2.92 | 10 | 0.03 | 1615 | 20 | <2 | <10 | 32 |

Appendix 5 Geochemical Data of Soil Sample in Mac Kanai Area

(5/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 361 MQS-18 | <5 | <2 | 16 | 170 | <5 | 39 | 3.00 | 30 | 0.08 | 1200 | 36 | <2 | <10 | 26 |
| 362 MQS-19 | <5 | <2 | 14 | 190 | <5 | 43 | 2.13 | 50 | 0.07 | 680 | 40 | <2 | <10 | 18 |
| 363 MQS-20 | <5 | <2 | 12 | 120 | <5 | 27 | 3.79 | 10 | 0.06 | 2140 | 26 | <2 | <10 | 34 |
| 364 MQS-21 | <5 | <2 | 20 | 140 | <5 | 44 | 3.22 | 40 | 0.06 | 1935 | 28 | <2 | <10 | 40 |
| 365 MQS-22 | 5 | <2 | 20 | 120 | <5 | 37 | 3.42 | 10 | 0.1 | 895 | 34 | <2 | <10 | 38 |
| 366 MQS-23 | 5 | <2 | 20 | 90 | <5 | 45 | 5.87 | 10 | 0.06 | 1330 | 34 | <2 | <10 | 52 |
| 367 MQS-24 | <5 | <2 | 30 | 220 | <5 | 33 | 3.53 | 30 | 0.14 | 1840 | 78 | <2 | <10 | 138 |
| 368 MQS-25 | <5 | 0.2 | 72 | 490 | 0.5 | 47 | 3.86 | 20 | 0.52 | 1915 | 492 | 14 | <10 | 370 |
| 369 MQS-26 | <5 | <2 | 48 | 450 | <5 | 35 | 3.33 | 30 | 0.28 | 2450 | 76 | <2 | <10 | 184 |
| 370 MQS-27 | <5 | <2 | 54 | 850 | 1.5 | 49 | 4.87 | 10 | 0.53 | 3050 | 68 | <2 | <10 | 546 |
| 371 MQS-28 | 15 | <2 | 86 | 220 | <5 | 41 | 9.14 | 10 | 0.06 | 3300 | 70 | <2 | <10 | 290 |
| 372 MQS-29 | <5 | <2 | 94 | 290 | <5 | 44 | 9.23 | 30 | 0.05 | 3550 | 78 | <2 | <10 | 316 |
| 373 MQS-30 | 10 | <2 | 128 | 280 | <5 | 45 | 10.55 | 20 | 0.05 | 2860 | 166 | <2 | <10 | 236 |
| 374 MQS-31 | <5 | <2 | 146 | 240 | <5 | 51 | 13.05 | 30 | 0.06 | 2280 | 182 | <2 | <10 | 376 |
| 375 MQS-32 | <5 | <2 | 102 | 370 | <5 | 57 | 10.40 | 50 | 0.07 | 2940 | 92 | <2 | <10 | 286 |
| 376 MQS-33 | <5 | <2 | 82 | 230 | <5 | 64 | 7.73 | 30 | 0.07 | 2220 | 68 | <2 | <10 | 164 |
| 377 MQS-34 | <5 | <2 | 108 | 320 | <5 | 70 | 10.50 | 40 | 0.06 | 1225 | 64 | <2 | <10 | 226 |
| 378 MQS-35 | <5 | <2 | 98 | 180 | 0.5 | 160 | >15.00 | 10 | 0.04 | 1395 | 52 | <2 | <10 | 1350 |
| 379 MQS-36 | <5 | <2 | 54 | 150 | <5 | 74 | 10.60 | 30 | 0.05 | 1350 | 66 | <2 | <10 | 394 |
| 380 MQS-37 | <5 | <2 | 56 | 200 | <5 | 62 | 8.86 | 10 | 0.05 | 1265 | 66 | <2 | <10 | 300 |
| 381 MQS-38 | <5 | <2 | 196 | 210 | <5 | 54 | 5.83 | 30 | 0.09 | 1345 | 60 | <2 | <10 | 196 |
| 382 MQS-39 | <5 | <2 | 118 | 300 | <5 | 28 | 3.46 | 20 | 0.07 | 2040 | 48 | <2 | <10 | 104 |
| 383 MQS-40 | <5 | 0.2 | 64 | 1070 | <5 | 48 | 4.09 | 10 | 0.08 | 2160 | 94 | <2 | <10 | 158 |
| 384 MQS-41 | <5 | 0.2 | 66 | 1690 | 1.5 | 82 | 3.65 | 20 | 0.11 | 2060 | 136 | <2 | <10 | 330 |
| 385 MRS-01 | <5 | <2 | 84 | 430 | 0.5 | 50 | 8.06 | 80 | 0.13 | 7810 | 66 | 2 | 10 | 238 |
| 386 MRS-02 | 5 | <2 | 76 | 1030 | 1 | 35 | 7.28 | 40 | 1.03 | >10000 | 46 | <2 | <10 | 204 |
| 387 MRS-03 | <5 | <2 | 84 | 770 | 2 | 39 | 7.86 | 20 | 0.37 | >10000 | 64 | <2 | <10 | 198 |
| 388 MRS-04 | <5 | <2 | 68 | 470 | 0.5 | 32 | 6.96 | 80 | 0.16 | 7230 | 64 | <2 | <10 | 176 |
| 389 MRS-05 | <5 | <2 | 86 | 360 | 0.5 | 35 | 6.32 | 60 | 0.13 | 4540 | 90 | <2 | <10 | 174 |
| 390 MRS-06 | <5 | <2 | 62 | 240 | <5 | 58 | 3.52 | 90 | 0.07 | 4330 | 112 | 8 | <10 | 74 |
| 391 MRS-07 | <5 | <2 | 38 | 390 | <5 | 31 | 1.72 | 40 | 0.06 | 2240 | 80 | <2 | <10 | 38 |
| 392 MRS-08 | <5 | <2 | 42 | 240 | <5 | 30 | 1.84 | 10 | 0.06 | 215 | 54 | <2 | <10 | 28 |
| 393 MRS-09 | <5 | <2 | 96 | 180 | <5 | 20 | 2.05 | 30 | 0.04 | 175 | 52 | 4 | <10 | 20 |
| 394 MRS-10 | <5 | <2 | 54 | 400 | <5 | 50 | 3.93 | 100 | 0.08 | 3570 | 224 | <2 | <10 | 184 |
| 395 MRS-11 | <5 | <2 | 64 | 190 | <5 | 59 | 4.04 | 40 | 0.05 | 1515 | 702 | 2 | <10 | 114 |
| 396 MRS-12 | <5 | <2 | 70 | 810 | <5 | 36 | 2.19 | 40 | 0.05 | 890 | 148 | <2 | <10 | 43 |
| 397 MRS-13 | <5 | <2 | 120 | 310 | <5 | 35 | 3.88 | 50 | 0.08 | 3030 | 380 | <2 | <10 | 88 |
| 398 MRS-14 | <5 | <2 | 136 | 280 | <5 | 34 | 4.52 | 50 | 0.06 | 2780 | 398 | 2 | <10 | 106 |
| 399 MRS-15 | <5 | <2 | 88 | 540 | <5 | 21 | 2.24 | 70 | 0.06 | 2190 | 188 | 2 | <10 | 76 |
| 400 MRS-16 | <5 | <2 | 50 | 650 | <5 | 19 | 2.86 | 40 | 0.05 | 1340 | 74 | <2 | <10 | 46 |
| 401 MRS-17 | <5 | <2 | 46 | 730 | <5 | 28 | 3.38 | 10 | 0.07 | 1325 | 156 | 2 | <10 | 52 |
| 402 MRS-18 | <5 | <2 | 56 | 300 | <5 | 41 | 4.66 | 50 | 0.09 | 1465 | 222 | 2 | <10 | 90 |
| 403 MRS-19 | <5 | <2 | 90 | 420 | <5 | 49 | 5.93 | 120 | 0.1 | 3290 | 388 | 16 | <10 | 190 |
| 404 MRS-20 | <5 | 0.2 | 88 | 1270 | 0.5 | 126 | 6.28 | 100 | 0.15 | 5980 | 740 | 28 | <10 | 384 |
| 405 MRS-21 | <5 | <2 | 52 | 520 | <5 | 25 | 2.67 | 70 | 0.07 | 1735 | 216 | <2 | <10 | 70 |
| 406 MRS-22 | <5 | <2 | 92 | 270 | <5 | 73 | 6.82 | 90 | 0.09 | 2500 | 184 | 10 | <10 | 100 |
| 407 MRS-23 | <5 | <2 | 118 | 170 | <5 | 68 | 8.08 | 70 | 0.07 | 2310 | 304 | 14 | <10 | 176 |
| 408 MRS-24 | <5 | <2 | 112 | 210 | <5 | 62 | 8.07 | 30 | 0.09 | 2330 | 256 | 14 | <10 | 126 |
| 409 MRS-25 | <5 | <2 | 110 | 110 | <5 | 53 | 5.64 | 60 | 0.39 | 1820 | 212 | 10 | <10 | 316 |
| 410 MRS-26 | <5 | <2 | 108 | 80 | <5 | 73 | 6.68 | 50 | 0.09 | 1630 | 138 | 6 | <10 | 124 |
| 411 MRS-27 | <5 | <2 | 110 | 70 | <5 | 102 | 6.91 | 50 | 0.05 | 1910 | 146 | 8 | <10 | 114 |
| 412 MRS-28 | <5 | <2 | 48 | 220 | <5 | 62 | 4.22 | 20 | 0.16 | 195 | 160 | 6 | <10 | 190 |
| 413 MRS-29 | <5 | <2 | 60 | 120 | <5 | 40 | 4.46 | 10 | 0.07 | 170 | 108 | <2 | <10 | 122 |
| 414 MRS-30 | 5 | <2 | 70 | 50 | <5 | 32 | 6.32 | 30 | 0.04 | 930 | 74 | <2 | <10 | 62 |
| 415 MRS-31 | <5 | <2 | 70 | 80 | <5 | 31 | 6.24 | 80 | 0.03 | 690 | 108 | <2 | <10 | 62 |
| 416 MRS-32 | <5 | <2 | 96 | 70 | <5 | 28 | 6.21 | 90 | 0.04 | 915 | 82 | <2 | <10 | 88 |
| 417 MRS-33 | <5 | <2 | 166 | 50 | <5 | 38 | 7.40 | 50 | 0.05 | 2070 | 90 | <2 | <10 | 100 |
| 418 MRS-34 | <5 | <2 | 164 | 60 | <5 | 34 | 7.40 | 100 | 0.06 | 1855 | 74 | <2 | <10 | 96 |
| 419 MRS-35 | <5 | <2 | 118 | 60 | <5 | 54 | 7.64 | 50 | 0.04 | 2380 | 86 | 8 | <10 | 156 |
| 420 MRS-36 | <5 | <2 | 74 | 70 | <5 | 44 | 5.70 | 50 | 0.06 | 3030 | 60 | 6 | <10 | 160 |
| 421 MRS-37 | <5 | <2 | 52 | 120 | <5 | 33 | 3.76 | 40 | 0.06 | 1655 | 76 | <2 | <10 | 148 |
| 422 MRS-38 | <5 | <2 | 40 | 60 | <5 | 25 | 2.94 | 40 | 0.06 | 795 | 70 | <2 | <10 | 74 |
| 423 MRS-39 | <5 | <2 | 70 | 70 | <5 | 34 | 5.77 | 40 | 0.08 | 340 | 46 | 6 | <10 | 68 |
| 424 MRS-40 | <5 | <2 | 84 | 70 | <5 | 43 | 6.51 | 30 | 0.07 | 410 | 52 | 6 | <10 | 92 |
| 425 MRS-41 | <5 | <2 | 96 | 70 | <5 | 33 | 6.14 | 30 | 0.06 | 640 | 58 | 2 | <10 | 74 |
| 426 MRS-42 | <5 | <2 | 100 | 1260 | <5 | 50 | 3.20 | 80 | 0.07 | 3180 | 130 | 2 | <10 | 156 |
| 427 MRS-43 | <5 | <2 | 84 | 340 | <5 | 34 | 5.15 | 50 | 0.04 | 1020 | 62 | 2 | <10 | 232 |
| 428 MRS-44 | <5 | <2 | 38 | 390 | <5 | 39 | 4.51 | 40 | 0.06 | 3190 | 46 | 2 | <10 | 184 |
| 429 MRS-45 | <5 | 0.2 | 86 | 1030 | 0.5 | 59 | 4.84 | 70 | 0.11 | 3290 | 82 | 2 | <10 | 314 |
| 430 MRS-46 | <5 | <2 | 356 | 230 | <5 | 25 | 2.74 | 70 | 0.04 | 55 | 662 | 12 | <10 | 34 |
| 431 MRS-47 | <5 | <2 | 36 | 150 | <5 | 20 | 2.27 | 40 | 0.08 | 205 | 50 | 2 | <10 | 36 |
| 432 MRS-48 | <5 | <2 | 30 | 350 | <5 | 16 | 1.54 | 50 | 0.09 | 300 | 30 | 2 | <10 | 32 |
| 433 MRS-49 | <5 | <2 | 34 | 180 | <5 | 14 | 1.35 | 30 | 0.1 | 210 | 38 | 4 | <10 | 14 |
| 434 MRS-50 | 10 | <2 | 34 | 240 | <5 | 16 | 2.24 | 20 | 0.11 | 140 | 36 | 2 | <10 | 16 |
| 435 MRS-51 | <5 | <2 | 36 | 360 | <5 | 15 | 2.79 | 20 | 0.11 | 100 | 34 | 4 | <10 | 16 |
| 436 MRS-52 | 5 | <2 | 44 | 710 | <5 | 12 | 2.18 | 20 | 0.07 | 60 | 24 | 8 | <10 | 12 |
| 437 MRS-53 | 5 | <2 | 38 | 2340 | <5 | 9 | 2.81 | 30 | 0.05 | 55 | 26 | 4 | <10 | 8 |
| 438 MRS-54 | 5 | <2 | 22 | 2540 | <5 | 7 | 2.93 | 40 | 0.05 | 50 | 24 | 6 | <10 | 10 |
| 439 MRS-55 | 10 | <2 | 30 | 1020 | <5 | 17 | 2.55 | 50 | 0.06 | 105 | 40 | 2 | <10 | 16 |
| 440 MRS-56 | 10 | <2 | 20 | 630 | <5 | 16 | 1.74 | 40 | 0.06 | 60 | 52 | 4 | <10 | 18 |
| 441 MRS-57 | 10 | <2 | 46 | 740 | <5 | 25 | 2.47 | 40 | 0.09 | 180 | 112 | 2 | <10 | 34 |
| 442 MRS-58 | 10 | <2 | 30 | 970 | <5 | 45 | 3.44 | 20 | 0.1 | 275 | 84 | 8 | <10 | 54 |
| 443 MRS-59 | 10 | <2 | 45 | 380 | <5 | 33 | 4.83 | 30 | 0.1 | 540 | 104 | <2 | <10 | 74 |
| 444 MRS-60 | <5 | <2 | 26 | 290 | <5 | 53 | 4.43 | 10 | 0.09 | 865 | 74 | 6 | <10 | 58 |
| 445 MRS-61 | 10 | <2 | 28 | 450 | <5 | 37 | 4.30 | 40 | 0.07 | 1405 | 96 | 2 | <10 | 66 |
| 446 MRS-62 | <5 | 0.4 | 102 | 1250 | 0.5 | 93 | 5.41 | 820 | 0.05 | 9440 | 1045 | 26 | <10 | 328 |
| 447 MRS-63 | <5 | <2 | 124 | 310 | <5 | 123 | 8.75 | 430 | 0.05 | 6720 | 1055 | 50 | <10 | 438 |
| 448 MRS-64 | <5 | <2 | 98 | 220 | <5 | 79 | 6.78 | 70 | 0.11 | 4960 | 424 | 28 | <10 | 148 |
| 449 MRS-65 | 5 | <2 | 106 | 200 | <5 | 80 | 7.25 | 100 | 0.09 | 4050 | 408 | 26 | <10 | 140 |
| 450 MRS-66 | <5 | <2 | 78 | 270 | <5 | 66 | 6.26 | 170 | 0.07 | 2330 | 292 | 24 | <10 | 82 |

Appendix 5 Geochemical Data of Soil Sample in Mae Kanai Area

(6/6)

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 451 MRS-67 | <5 | <2 | 72 | 170 | <5 | 65 | 6.16 | 80 | 0.09 | 1795 | 208 | 12 | <10 | 80 |
| 452 MRS-68 | <5 | <2 | 72 | 160 | <5 | 66 | 5.66 | 50 | 0.1 | 1570 | 258 | 14 | <10 | 230 |
| 453 MRS-69 | 5 | <2 | 33 | 230 | <5 | 42 | 3.70 | <10 | 0.22 | 960 | 94 | 2 | <10 | 162 |
| 454 MRS-70 | <5 | <2 | 20 | 50 | <5 | 28 | 3.63 | 30 | 0.03 | 490 | 56 | 2 | <10 | 28 |
| 455 MRS-71 | <5 | <2 | 92 | 60 | <5 | 37 | 7.05 | 30 | 0.03 | 1615 | 96 | 4 | <10 | 34 |
| 456 MRS-72 | <5 | <2 | 58 | 60 | <5 | 37 | 5.29 | 10 | 0.05 | 1150 | 70 | 2 | <10 | 43 |
| 457 MRS-73 | <5 | <2 | 30 | 70 | <5 | 33 | 3.72 | 60 | 0.04 | 590 | 94 | <2 | <10 | 44 |
| 458 MRS-74 | <5 | <2 | 80 | 80 | <5 | 34 | 5.94 | 50 | 0.06 | 1530 | 58 | 2 | <10 | 122 |
| 459 MRS-75 | <5 | <2 | 104 | 110 | <5 | 26 | 6.43 | 50 | 0.05 | 3330 | 64 | <2 | <10 | 138 |
| 460 MRS-76 | 5 | <2 | 94 | 70 | <5 | 43 | 5.71 | 30 | 0.05 | 830 | 44 | <2 | <10 | 152 |
| 461 MRS-77 | <5 | <2 | 116 | 80 | <5 | 26 | 5.95 | 70 | 0.05 | 340 | 44 | <2 | <10 | 54 |
| 462 MRS-78 | 10 | <2 | 132 | 120 | <5 | 26 | 5.70 | 40 | 0.06 | 430 | 50 | <2 | <10 | 58 |
| 463 MRS-79 | <5 | <2 | 54 | 130 | <5 | 20 | 2.66 | 20 | 0.07 | 225 | 56 | <2 | <10 | 26 |
| 464 MRS-80 | 10 | <2 | 92 | 80 | <5 | 35 | 2.18 | 10 | 0.07 | 230 | 64 | <2 | <10 | 32 |
| 465 MRS-81 | <5 | <2 | 42 | 90 | <5 | 25 | 2.17 | 30 | 0.06 | 1265 | 50 | <2 | <10 | 54 |
| 466 MRS-82 | <5 | <2 | 34 | 160 | <5 | 24 | 2.38 | 20 | 0.05 | 2010 | 60 | <2 | <10 | 204 |
| 467 MRS-83 | <5 | <2 | 74 | 300 | <5 | 60 | 5.79 | 50 | 0.08 | 4210 | 466 | 12 | <10 | 122 |
| 468 MRS-84 | <5 | 0.2 | 116 | 710 | <5 | 160 | 6.04 | 50 | 0.1 | 4180 | 754 | 78 | <10 | 192 |
| 469 MRS-85 | <5 | <2 | 66 | 320 | <5 | 45 | 3.21 | 30 | 0.07 | 2080 | 160 | 6 | <10 | 60 |
| 470 MRS-86 | <5 | <2 | 124 | 290 | <5 | 40 | 6.23 | 40 | 0.08 | 2040 | 256 | 6 | <10 | 68 |
| 471 MRS-87 | <5 | <2 | 108 | 170 | <5 | 68 | 8.66 | 60 | 0.08 | 2110 | 238 | 12 | <10 | 102 |
| 472 MRS-88 | <5 | <2 | 88 | 390 | <5 | 75 | 7.84 | 120 | 0.09 | 5290 | 630 | 8 | <10 | 244 |
| 473 MRS-89 | <5 | <2 | 80 | 440 | <5 | 72 | 9.54 | 90 | 0.13 | 7420 | 682 | 4 | <10 | 356 |
| 474 MRS-90 | <5 | 0.2 | 88 | 360 | <5 | 65 | 8.21 | 70 | 0.07 | 7950 | 938 | 14 | <10 | 314 |
| 475 MRS-91 | <5 | <2 | 88 | 340 | <5 | 59 | 8.45 | 70 | 0.06 | 4950 | 828 | 14 | <10 | 218 |
| 476 MRS-92 | <5 | <2 | 120 | 170 | <5 | 157 | 10.35 | 60 | 0.06 | 5090 | 828 | 68 | <10 | 168 |
| 477 MRS-93 | <5 | <2 | 102 | 340 | <5 | 49 | 5.82 | 30 | 0.07 | 3720 | 338 | 20 | <10 | 132 |
| 478 MRS-94 | <5 | <2 | 82 | 1090 | <5 | 59 | 8.06 | 50 | 0.05 | 7130 | 720 | 12 | <10 | 414 |
| 479 MRS-95 | <5 | 0.2 | 86 | 830 | 0.5 | 81 | 10.75 | 110 | 0.06 | >10000 | 1545 | 22 | <10 | 812 |
| 480 MRS-96 | <5 | <2 | 176 | 260 | <5 | 201 | 11.10 | 140 | 0.06 | 6720 | 1310 | 38 | <10 | 510 |
| 481 MRS-97 | <5 | <2 | 180 | 140 | <5 | 261 | 10.50 | 80 | 0.06 | 4320 | 574 | 84 | <10 | 150 |
| 482 MRS-98 | <5 | <2 | 60 | 450 | <5 | 51 | 4.55 | 30 | 0.08 | 1865 | 398 | 16 | <10 | 98 |
| 483 MRS-99 | <5 | <2 | 218 | 1610 | <5 | 126 | 7.42 | 120 | 0.07 | 4750 | 1140 | 48 | <10 | 540 |
| 484 MRS-100 | <5 | 2.2 | 394 | 2310 | 2.5 | 2390 | 9.87 | 8130 | 0.74 | 7370 | 1010 | 730 | <10 | 518 |
| 485 MRS-101 | <5 | <2 | 128 | 260 | <5 | 181 | 6.58 | 50 | 0.08 | 4100 | 1040 | 64 | <10 | 110 |
| 486 MRS-102 | <5 | <2 | 244 | 220 | <5 | 528 | 13.05 | 60 | 0.1 | 7750 | 788 | 104 | <10 | 254 |
| 487 MRS-103 | <5 | <2 | 42 | 360 | <5 | 40 | 4.84 | 90 | 0.09 | 1255 | 166 | 4 | <10 | 72 |
| 488 MRS-104 | <5 | 0.2 | 134 | 1090 | <5 | 110 | 5.12 | 110 | 0.12 | 4820 | 1445 | 56 | <10 | 290 |
| 489 MRS-105 | <5 | 0.6 | 122 | 990 | <5 | 55 | 5.03 | 60 | 0.14 | 7470 | 1290 | 30 | <10 | 144 |
| 490 MRS-106 | <5 | 0.8 | 106 | 650 | <5 | 243 | 8.66 | 40 | 0.27 | 6140 | 1605 | 166 | <10 | 132 |
| 491 MRS-107 | <5 | <2 | 120 | 140 | <5 | 179 | 8.72 | 50 | 0.07 | 4100 | 972 | 64 | <10 | 132 |
| 492 MRS-108 | <5 | <2 | 42 | 280 | <5 | 36 | 5.09 | 60 | 0.08 | 1005 | 90 | <2 | <10 | 58 |
| 493 MRS-109 | <5 | 0.2 | 102 | 360 | <5 | 84 | 4.86 | 80 | 0.09 | 4490 | 626 | 24 | <10 | 156 |
| 494 MRS-110 | <5 | 0.2 | 100 | 260 | <5 | 48 | 5.20 | 50 | 0.1 | 3650 | 1010 | 22 | <10 | 130 |
| 495 MRS-111 | <5 | <2 | 88 | 210 | <5 | 192 | 5.27 | 70 | 0.12 | 4410 | 1285 | 12 | <10 | 122 |
| 496 MRS-112 | <5 | <2 | 96 | 150 | <5 | 234 | 8.35 | 100 | 0.1 | 5030 | 1000 | 52 | <10 | 170 |
| 497 MRS-113 | <5 | <2 | 84 | 530 | <5 | 51 | 6.30 | 110 | 0.1 | 3890 | 182 | 10 | <10 | 134 |
| 498 MRS-114 | <5 | <2 | 80 | 370 | <5 | 60 | 7.58 | 90 | 0.1 | 4750 | 280 | 22 | <10 | 154 |
| 499 MRS-115 | <5 | 0.2 | 130 | 270 | <5 | 97 | 7.45 | 180 | 0.09 | 5020 | 864 | 48 | <10 | 202 |
| 500 MRS-116 | 5 | <2 | 134 | 150 | <5 | 104 | 7.39 | 90 | 0.1 | 4590 | 838 | 46 | <10 | 106 |
| 501 MRS-117 | <5 | <2 | 436 | 100 | <5 | 124 | 10.30 | 140 | 0.07 | 4140 | 896 | 66 | <10 | 122 |
| 502 MRS-118 | <5 | <2 | 202 | 100 | <5 | 94 | 9.41 | 130 | 0.06 | 2530 | 586 | 40 | <10 | 172 |
| 503 MRS-119 | <5 | 0.2 | 182 | 120 | <5 | 121 | 7.25 | 110 | 0.08 | 4120 | 838 | 58 | <10 | 152 |
| 504 MRS-120 | <5 | 0.2 | 138 | 190 | <5 | 267 | 10.75 | 120 | 0.11 | 5420 | 1150 | 86 | <10 | 294 |
| 505 MRS-121 | <5 | <2 | 130 | 120 | 0.5 | 225 | 10.25 | 250 | 0.12 | 6220 | 2150 | 68 | <10 | 474 |
| 506 MRS-122 | <5 | <2 | 840 | 160 | 0.5 | 236 | 9.88 | 220 | 0.1 | 5690 | 1180 | 88 | <10 | 310 |
| 507 MRS-123 | <5 | <2 | 150 | 120 | <5 | 131 | 8.27 | 290 | 0.09 | 4530 | 772 | 36 | <10 | 154 |
| 508 MRS-124 | <5 | <2 | 248 | 160 | <5 | 321 | 7.46 | 510 | 0.09 | 3870 | 1665 | 232 | <10 | 96 |
| 509 MRS-125 | <5 | <2 | 182 | 330 | <5 | 65 | 6.44 | 150 | 0.09 | 2680 | 512 | 82 | <10 | 94 |
| 510 MRS-126 | <5 | <2 | 82 | 310 | <5 | 39 | 3.51 | 40 | 0.06 | 2350 | 80 | 4 | <10 | 78 |

Appendix 6 Geochemical Data of Soil Sample in Southern I-4 Area

| SAMPLE DESCRIPTION | Au ppb | Ag ppm | As ppm | Ba ppm | Cd ppm | Cu ppm | Fe % | Hg ppb | Mg % | Mn ppm | Pb ppm | Sb ppm | W ppm | Zn ppm |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|---------|-----------|-----------|-----------|----------|-----------|
| 1 SMS-01 | 5 | <2 | 6 | 160 | <5 | 85 | 3.31 | <10 | 0.77 | 1945 | 23 | <2 | <10 | 84 |
| 2 SMS-02 | <5 | <2 | 28 | 140 | <5 | 51 | 3.89 | <10 | 0.32 | 1275 | 44 | <2 | <10 | 120 |
| 3 SMS-03 | <5 | <2 | 22 | 70 | <5 | 47 | 3.12 | <10 | 0.2 | 970 | 36 | <2 | <10 | 82 |
| 4 SMS-04 | 5 | <2 | 30 | 70 | <5 | 49 | 3.81 | 10 | 0.25 | 940 | 50 | 2 | <10 | 96 |
| 5 SMS-05 | <5 | <2 | 24 | 50 | <5 | 40 | 3.34 | 10 | 0.37 | 450 | 24 | <2 | <10 | 56 |
| 6 SMS-06 | <5 | <2 | 90 | 130 | <5 | 66 | 4.48 | 60 | 0.21 | 1840 | 42 | 12 | <10 | 143 |
| 7 SMS-07 | <5 | <2 | 22 | 70 | <5 | 69 | 4.09 | 40 | 0.24 | 625 | 126 | 10 | <10 | 128 |
| 8 SMS-08 | <5 | <2 | 18 | 60 | <5 | 62 | 4.27 | <10 | 0.22 | 1165 | 22 | 10 | <10 | 74 |
| 9 SMS-09 | <5 | <2 | 16 | 30 | <5 | 46 | 3.28 | <10 | 0.15 | 310 | 20 | 18 | <10 | 54 |
| 10 SMS-10 | <5 | <2 | 22 | 60 | <5 | 45 | 3.64 | 10 | 0.12 | 685 | 32 | 10 | <10 | 68 |
| 11 SMS-11 | 5 | <2 | 26 | 90 | <5 | 48 | 4.05 | 10 | 0.07 | 1215 | 62 | 2 | <10 | 64 |
| 12 SMS-12 | <5 | <2 | 20 | 40 | <5 | 61 | 4.22 | <10 | 0.06 | 355 | 52 | <2 | <10 | 62 |
| 13 SMS-13 | <5 | <2 | 16 | 40 | <5 | 33 | 2.68 | 20 | 0.06 | 380 | 30 | <2 | <10 | 44 |
| 14 SMS-14 | <5 | <2 | 8 | 40 | <5 | 27 | 2.61 | 10 | 0.05 | 220 | 24 | <2 | <10 | 40 |
| 15 SMS-15 | <5 | <2 | 12 | 180 | <5 | 39 | 2.31 | 40 | 0.06 | 630 | 64 | <2 | <10 | 80 |
| 16 SMS-16 | <5 | <2 | 18 | 80 | <5 | 42 | 3.56 | <10 | 0.29 | 590 | 18 | <2 | <10 | 72 |
| 17 SMS-17 | <5 | <2 | 10 | 160 | <5 | 26 | 2.53 | 40 | 0.14 | 1075 | 38 | <2 | <10 | 66 |
| 18 SMS-18 | <5 | <2 | 24 | 350 | <5 | 37 | 3.32 | 10 | 0.24 | 1175 | 34 | <2 | <10 | 114 |
| 19 SMS-19 | 10 | <2 | 64 | 1330 | <5 | 43 | 3.21 | 20 | 0.13 | 1335 | 296 | <2 | <10 | 174 |
| 20 SMS-20 | 10 | <2 | 20 | 770 | <5 | 58 | 2.96 | 20 | 0.27 | 1065 | 158 | <2 | <10 | 318 |
| 21 SMS-21 | <5 | <2 | 38 | 1090 | <5 | 70 | 4.35 | 20 | 0.24 | 2260 | 330 | 2 | <10 | 438 |
| 22 SMS-22 | <5 | <2 | 40 | 400 | <5 | 62 | 4.33 | 10 | 0.33 | 2060 | 86 | <2 | <10 | 250 |
| 23 SMS-23 | <5 | <2 | 16 | 290 | <5 | 38 | 3.71 | <10 | 0.56 | 1435 | 32 | <2 | <10 | 116 |
| 24 SMS-24 | 5 | <2 | 8 | 160 | <5 | 28 | 2.56 | 30 | 0.55 | 1480 | 18 | <2 | <10 | 78 |
| 25 SMS-25 | <5 | <2 | 24 | 180 | <5 | 33 | 3.67 | 10 | 0.37 | 1435 | 30 | <2 | <10 | 90 |
| 26 SMS-26 | <5 | <2 | 48 | 230 | <5 | 32 | 3.2 | <10 | 0.25 | 1210 | 106 | <2 | <10 | 164 |
| 27 SMS-27 | <5 | <2 | 52 | 40 | <5 | 37 | 2.98 | 10 | 0.05 | 440 | 36 | <2 | <10 | 56 |
| 28 SMS-28 | <5 | <2 | 16 | 100 | <5 | 37 | 2.54 | 10 | 0.1 | 920 | 30 | <2 | <10 | 48 |
| 29 SMS-29 | <5 | <2 | 12 | 90 | <5 | 48 | 2.92 | 10 | 0.29 | 515 | 18 | <2 | <10 | 82 |
| 30 SPS-01 | <5 | <2 | 58 | 350 | <5 | 53 | 3.96 | 30 | 0.39 | 1695 | 22 | <2 | <10 | 64 |
| 31 SPS-02 | <5 | <2 | 24 | 270 | <5 | 58 | 3.14 | 30 | 0.18 | 1720 | 14 | <2 | <10 | 98 |
| 32 SPS-03 | <5 | <2 | 26 | 110 | <5 | 69 | 4.18 | 10 | 0.16 | 1090 | 10 | <2 | <10 | 64 |
| 33 SPS-04 | <5 | <2 | 38 | 160 | <5 | 65 | 4.53 | 10 | 0.19 | 1715 | 28 | <2 | <10 | 66 |
| 34 SPS-05 | <5 | <2 | 30 | 70 | <5 | 54 | 4.64 | <10 | 0.1 | 925 | 10 | <2 | <10 | 46 |
| 35 SPS-06 | <5 | <2 | 44 | 70 | <5 | 46 | 3.9 | <10 | 0.07 | 1570 | 14 | <2 | <10 | 34 |
| 36 SPS-07 | <5 | <2 | 46 | 40 | <5 | 45 | 3.05 | <10 | 0.05 | 405 | 10 | <2 | <10 | 36 |
| 37 SPS-08 | <5 | <2 | 62 | 80 | <5 | 34 | 2.79 | 10 | 0.05 | 1180 | 26 | <2 | <10 | 32 |
| 38 SPS-09 | 5 | <2 | 88 | 90 | <5 | 37 | 2.77 | 10 | 0.06 | 2170 | 28 | <2 | <10 | 40 |
| 39 SPS-10 | <5 | <2 | 42 | 60 | <5 | 34 | 2.6 | 30 | 0.06 | 1320 | 10 | <2 | <10 | 16 |
| 40 SPS-11 | <5 | <2 | 26 | 110 | <5 | 36 | 3.12 | 60 | 0.07 | 1630 | 16 | <2 | <10 | 36 |
| 41 SPS-12 | <5 | <2 | 30 | 80 | <5 | 32 | 1.99 | <10 | 0.05 | 1260 | 16 | <2 | <10 | 40 |
| 42 SPS-13 | <5 | <2 | 44 | 130 | <5 | 36 | 2.05 | 10 | 0.07 | 2200 | 12 | <2 | <10 | 32 |
| 43 SPS-14 | <5 | <2 | 22 | 270 | <5 | 35 | 1.74 | <10 | 0.08 | 1040 | 16 | <2 | <10 | 42 |
| 44 SPS-15 | <5 | <2 | 18 | 720 | <5 | 44 | 2.51 | <10 | 0.07 | 1335 | 114 | <2 | <10 | 124 |
| 45 SPS-16 | <5 | <2 | 8 | 1790 | <5 | 56 | 2.71 | 20 | 0.12 | 2540 | 74 | <2 | <10 | 176 |
| 46 SPS-17 | <5 | <2 | 4 | 1200 | <5 | 65 | 3.25 | 10 | 0.3 | 1010 | 36 | <2 | <10 | 194 |

Appendix 7 MMI Analysis Data in Mae Kanai Area

(1/2)

| SAMPLE DESSCRIPTIO | Cu ppb | Pb ppb | Zn ppb | Cd ppb | SAMPLE DESSCRIPTIO | Cu ppb | Pb ppb | Zn ppb | Cd ppb |
|-----------------------|-----------|-----------|-----------|-----------|-----------------------|-----------|-----------|-----------|-----------|
| 1 MKM-01 | 53 | 37 | 188 | 4 | 81 MKM-81 | 280 | 10,400 | 229 | 9 |
| 2 MKM-02 | 41 | 48 | 373 | 9 | 82 MKM-82 | 118 | 2,200 | 968 | 18 |
| 3 MKM-03 | 58 | 157 | 354 | 6 | 83 MKM-83 | 494 | 6,070 | 909 | 21 |
| 4 MKM-04 | 19 | 119 | 255 | 6 | 84 MKM-84 | 617 | 5,250 | 951 | 25 |
| 5 MKM-05 | 19 | 135 | 181 | 3 | 85 MKM-85 | 939 | 2,810 | 467 | 20 |
| 6 MKM-06 | 33 | 138 | 209 | 4 | 86 MMM-01 | 2,030 | 3,710 | 3,810 | 62 |
| 7 MKM-07 | 50 | 367 | 388 | 4 | 87 MMM-02 | 51 | 4,300 | 528 | 9 |
| 8 MKM-08 | 27 | 114 | 246 | 5 | 88 MMM-03 | 68 | 1,600 | 151 | 4 |
| 9 MKM-09 | 41 | 91 | 112 | 4 | 89 MMM-04 | 61 | 901 | 168 | 5 |
| 10 MKM-10 | 50 | 173 | 291 | 11 | 90 MMM-05 | 43 | 3,690 | 1,190 | 7 |
| 11 MKM-11 | 67 | 66 | 1,920 | 31 | 91 MMM-06 | 225 | 8,680 | 1,870 | 29 |
| 12 MKM-12 | 247 | 2,120 | 8,770 | 166 | 92 MMM-07 | 300 | 2,440 | 1,280 | 34 |
| 13 MKM-13 | 334 | 5,280 | 3,540 | 74 | 93 MMM-08 | 108 | 1,930 | 1,600 | 55 |
| 14 MKM-14 | 492 | 5,680 | 6,360 | 162 | 94 MMM-09 | 187 | 1,540 | 5,540 | 144 |
| 15 MKM-15 | 840 | 6,890 | 8,180 | 262 | 95 MMM-10 | 131 | 1,420 | 1,690 | 34 |
| 16 MKM-16 | 5,390 | 57,100 | 2,840 | 131 | 96 MMM-11 | 126 | 2,230 | 1,050 | 25 |
| 17 MKM-17 | 1,510 | 2,100 | 5,140 | 233 | 97 MMM-12 | 136 | 798 | 2,470 | 52 |
| 18 MKM-18 | 216 | 326 | 747 | 33 | 98 MMM-13 | 58 | 3,170 | 839 | 13 |
| 19 MKM-19 | 165 | 259 | 538 | 12 | 99 MMM-14 | 46 | 1,560 | 727 | 24 |
| 20 MKM-20 | 87 | 371 | 508 | 16 | 100 MMM-15 | 33 | 527 | 312 | 10 |
| 21 MKM-21 | 41 | 65 | 342 | 5 | 101 MMM-16 | 32 | 517 | 473 | 10 |
| 22 MKM-22 | 64 | 201 | 133 | 3 | 102 MMM-17 | 61 | 819 | 706 | 15 |
| 23 MKM-23 | 79 | 500 | 149 | 3 | 103 MMM-18 | 40 | 131 | 552 | 8 |
| 24 MKM-24 | 93 | 375 | 143 | 3 | 104 MMM-19 | 50 | 245 | 374 | 10 |
| 25 MKM-25 | 42 | 273 | 171 | 3 | 105 MMM-20 | 37 | 220 | 496 | 10 |
| 26 MKM-26 | 109 | 110 | 187 | 7 | 106 MMM-21 | 16 | 318 | 308 | 8 |
| 27 MKM-27 | 54 | 321 | 429 | 14 | 107 MMM-22 | 24 | 188 | 222 | 5 |
| 28 MKM-28 | 226 | 1,070 | 1,310 | 37 | 108 MMM-23 | 12 | 130 | 248 | 4 |
| 29 MKM-29 | 275 | 4,120 | 1,350 | 27 | 109 MMM-24 | 40 | 449 | 165 | 3 |
| 30 MKM-30 | 76 | 1,850 | 561 | 23 | 110 MMM-25 | 65 | 731 | 371 | 5 |
| 31 MKM-31 | 118 | 1,950 | 823 | 29 | 111 MMM-26 | 73 | 672 | 796 | 11 |
| 32 MKM-32 | 71 | 600 | 659 | 13 | 112 MMM-27 | 1,220 | 397 | 1,990 | 40 |
| 33 MKM-33 | 58 | 772 | 182 | 6 | 113 MMM-28 | 374 | 752 | 1,770 | 27 |
| 34 MKM-34 | 66 | 831 | 1,110 | 21 | 114 MMM-29 | 91 | 60 | 715 | 13 |
| 35 MKM-35 | 143 | 458 | 2,230 | 55 | 115 MMM-30 | 235 | 1,350 | 4,860 | 78 |
| 36 MKM-36 | 74 | 951 | 403 | 9 | 116 MMM-31 | 162 | 160 | 1,970 | 44 |
| 37 MKM-37 | 71 | 703 | 192 | 3 | 117 MMM-32 | 217 | 80 | 357 | 10 |
| 38 MKM-38 | 64 | 469 | 214 | 5 | 118 MMM-33 | 397 | 156 | 519 | 11 |
| 39 MKM-39 | 54 | 624 | 217 | 4 | 119 MMM-34 | 133 | 171 | 290 | 28 |
| 40 MKM-40 | 41 | 495 | 463 | 6 | 120 MMM-35 | 107 | 290 | 2,810 | 88 |
| 41 MKM-41 | 212 | 6,060 | 2,580 | 57 | 121 MMM-36 | 1,580 | 1,000 | 792 | 23 |
| 42 MKM-42 | 191 | 3,980 | 908 | 34 | 122 MMM-37 | 50 | 124 | 126 | 7 |
| 43 MKM-43 | 856 | 4,900 | 499 | 27 | 123 MMM-38 | 39 | 45 | 150 | 5 |
| 44 MKM-44 | 302 | 6,080 | 291 | 16 | 124 MMM-39 | 63 | 66 | 304 | 6 |
| 45 MKM-45 | 102 | 1,230 | 478 | 14 | 125 MMM-40 | 2,370 | 820 | 7,750 | 58 |
| 46 MKM-46 | 55 | 694 | 1,600 | 30 | 126 MMM-41 | 177 | 303 | 3,510 | 32 |
| 47 MKM-47 | 94 | 1,010 | 1,610 | 31 | 127 MNM-42 | 134 | 85 | 12,500 | 62 |
| 48 MKM-48 | 76 | 2,770 | 686 | 11 | 128 MNM-06 | 56 | 88 | 2,640 | 15 |
| 49 MKM-49 | 168 | 3,500 | 483 | 10 | 129 MNM-07 | 81 | 32 | 2,150 | 20 |
| 50 MKM-50 | 97 | 316 | 275 | 4 | 130 MNM-08 | 48 | 51 | 547 | 6 |
| 51 MKM-51 | 59 | 766 | 135 | 2 | 131 MNM-09 | 41 | 100 | 468 | 7 |
| 52 MKM-52 | 93 | 546 | 202 | 2 | 132 MNM-10 | 54 | 128 | 844 | 16 |
| 53 MKM-53 | 114 | 1,950 | 643 | 4 | 133 MNM-11 | 59 | 293 | 1,640 | 21 |
| 54 MKM-54 | 137 | 1,690 | 1,270 | 31 | 134 MNM-12 | 19 | 52 | 205 | 7 |
| 55 MKM-55 | 1,920 | 3,590 | 4,200 | 71 | 135 MNM-13 | 60 | 58 | 788 | 17 |
| 56 MKM-56 | 1,100 | 2,590 | 843 | 30 | 136 MNM-14 | 44 | 95 | 1,020 | 41 |
| 57 MKM-57 | 350 | 4,850 | 298 | 6 | 137 MNM-15 | 97 | 53 | 9,530 | 318 |
| 58 MKM-58 | 399 | 5,070 | 325 | 6 | 138 MNM-16 | 115 | 231 | 4,550 | 192 |
| 59 MKM-59 | 168 | 1,610 | 337 | 6 | 139 MNM-17 | 102 | 1,450 | 5,600 | 111 |
| 60 MKM-60 | 165 | 1,590 | 334 | 6 | 140 MNM-18 | 51 | 175 | 1,040 | 65 |
| 61 MKM-61 | 369 | 2,060 | 592 | 10 | 141 MNM-19 | 125 | 210 | 308 | 10 |
| 62 MKM-62 | 337 | 1,050 | 433 | 12 | 142 MNM-20 | 96 | 131 | 278 | 13 |
| 63 MKM-63 | 70 | 182 | 1,650 | 50 | 143 MNM-21 | 179 | 79 | 607 | 22 |
| 64 MKM-64 | 46 | 359 | 180 | 3 | 144 MNM-22 | 74 | 48 | 317 | 8 |
| 65 MKM-65 | 32 | 326 | 118 | 3 | 145 MNM-23 | 51 | 97 | 489 | 20 |
| 66 MKM-66 | 92 | 478 | 233 | 3 | 146 MNM-24 | 68 | 332 | 851 | 26 |
| 67 MKM-67 | 45 | 191 | 208 | 2 | 147 MNM-25 | 43 | 131 | 530 | 25 |
| 68 MKM-68 | 83 | 209 | 282 | 5 | 148 MNM-26 | 96 | 89 | 400 | 18 |
| 69 MKM-69 | 55 | 267 | 292 | 5 | 149 MNM-27 | 163 | 278 | 218 | 10 |
| 70 MKM-70 | 61 | 407 | 159 | 2 | 150 MNM-28 | 145 | 71 | 6,470 | 242 |
| 71 MKM-71 | 66 | 452 | 127 | 1 | 151 MNM-29 | 45 | 59 | 1,570 | 59 |
| 72 MKM-72 | 53 | 264 | 94 | 2 | 152 MNM-30 | 56 | 80 | 3,840 | 107 |
| 73 MKM-73 | 328 | 29 | 461 | 8 | 153 MNM-31 | 94 | 248 | 4,590 | 119 |
| 74 MKM-74 | 305 | 68 | 304 | 8 | 154 MNM-32 | 167 | 178 | 4,300 | 71 |
| 75 MKM-75 | 145 | 578 | 292 | 15 | 155 MNM-33 | 38 | 73 | 621 | 22 |
| 76 MKM-76 | 231 | 1,170 | 1,290 | 39 | 156 MNM-34 | 85 | 115 | 296 | 6 |
| 77 MKM-77 | 166 | 1,170 | 1,900 | 86 | 157 MNM-35 | 44 | 184 | 179 | 6 |
| 78 MKM-78 | 36 | 483 | 10,100 | 166 | 158 MNM-36 | 43 | 379 | 133 | 5 |
| 79 MKM-79 | 51 | 181 | 1,170 | 18 | 159 MNM-37 | 65 | 319 | 211 | 7 |
| 80 MKM-80 | 36 | 1,590 | 221 | 11 | 160 MPM-01 | 179 | 181 | 1,430 | 34 |

Appendix 7 MMI Analysis Data in Mae Kanai Area

(2/2)

| SAMPLE DESCRPTIO | Cu ppb | Pb ppb | Zn ppb | Cd ppb | SAMPLE DESCRPTIO | Cu ppb | Pb ppb | Zn ppb | Cd ppb |
|---------------------|-----------|-----------|-----------|-----------|---------------------|-----------|-----------|-----------|-----------|
| 161 MPM-02 | 1,620 | 316 | 3,210 | 71 | 241 MQM-51 | 45 | 180 | 307 | 8 |
| 162 MPM-03 | 3,450 | 472 | 2,810 | 47 | 242 MQM-52 | 32 | 196 | 473 | 24 |
| 163 MPM-04 | 335 | 321 | 663 | 33 | 243 MQM-53 | 68 | 202 | 511 | 11 |
| 164 MPM-05 | 615 | 655 | 639 | 9 | 244 MQM-54 | 82 | 536 | 397 | 8 |
| 165 MPM-06 | 514 | 184 | 596 | 9 | 245 MQM-55 | 41 | 266 | 623 | 8 |
| 166 MPM-07 | 239 | 206 | 2,120 | 21 | 246 MQM-56 | 30 | 279 | 165 | 4 |
| 167 MPM-08 | 129 | 185 | 2,220 | 30 | 247 MQM-57 | 62 | 432 | 170 | 2 |
| 168 MPM-09 | 261 | 504 | 2,560 | 40 | 248 MQM-58 | 51 | 323 | 129 | 4 |
| 169 MPM-10 | 510 | 1,120 | 7,520 | 124 | 249 MQM-59 | 25 | 166 | 196 | 4 |
| 170 MPM-11 | 88 | 316 | 4,690 | 196 | 250 MQM-60 | 22 | 120 | 391 | 7 |
| 171 MPM-12 | 95 | 954 | 5,560 | 620 | 251 MQM-61 | 34 | 135 | 811 | 6 |
| 172 MPM-13 | 88 | 138 | 274 | 6 | 252 MQM-62 | 13 | 82 | 579 | 10 |
| 173 MPM-14 | 75 | 81 | 308 | 12 | 253 MQM-63 | 17 | 91 | 668 | 8 |
| 174 MPM-15 | 114 | 49 | 279 | 7 | 254 MRM-01 | 46 | 337 | 162 | 7 |
| 175 MPM-16 | 151 | 231 | 132 | 6 | 255 MRM-02 | 40 | 275 | 97 | 4 |
| 176 MPM-17 | 63 | 240 | 137 | 6 | 256 MRM-03 | 66 | 339 | 277 | 4 |
| 177 MPM-18 | 106 | 240 | 132 | 7 | 257 MRM-04 | 60 | 371 | 183 | 7 |
| 178 MPM-19 | 132 | 59 | 197 | 11 | 258 MRM-05 | 39 | 1,360 | 107 | 7 |
| 179 MPM-20 | 126 | 39 | 215 | 9 | 259 MRM-06 | 47 | 3,780 | 99 | 5 |
| 180 MPM-21 | 115 | 33 | 294 | 15 | 260 MRM-07 | 82 | 2,950 | 225 | 14 |
| 181 MPM-22 | 90 | 61 | 397 | 13 | 261 MRM-08 | 200 | 2,470 | 214 | 13 |
| 182 MPM-23 | 72 | 187 | 297 | 16 | 262 MRM-09 | 142 | 846 | 397 | 8 |
| 183 MPM-24 | 60 | 147 | 545 | 10 | 263 MRM-10 | 237 | 7,080 | 1,000 | 25 |
| 184 MPM-25 | 46 | 210 | 1,090 | 8 | 264 MRM-11 | 263 | 1,450 | 1,030 | 21 |
| 185 MPM-26 | 41 | 161 | 365 | 12 | 265 MRM-12 | 280 | 3,190 | 1,100 | 16 |
| 186 MPM-27 | 26 | 61 | 82 | 7 | 266 MRM-13 | 55 | 982 | 246 | 11 |
| 187 MPM-28 | 91 | 289 | 125 | 4 | 267 MRM-14 | 101 | 1,000 | 568 | 33 |
| 188 MPM-29 | 59 | 260 | 340 | 12 | 268 MRM-15 | 98 | 576 | 1,430 | 39 |
| 189 MPM-30 | 63 | 139 | 2,310 | 69 | 269 MRM-16 | 39 | 578 | 154 | 8 |
| 190 MPM-31 | 227 | 292 | 3,900 | 220 | 270 MRM-17 | 31 | 496 | 155 | 7 |
| 191 MQM-01 | 23 | 228 | 66 | 4 | 271 MRM-18 | 43 | 1,880 | 473 | 12 |
| 192 MQM-02 | 24 | 158 | 89 | 4 | 272 MRM-19 | 54 | 1,970 | 720 | 13 |
| 193 MQM-03 | 26 | 114 | 89 | 3 | 273 MRM-20 | 68 | 659 | 1,160 | 24 |
| 194 MQM-04 | 150 | 159 | 173 | 4 | 274 MRM-21 | 44 | 666 | 407 | 12 |
| 195 MQM-05 | 307 | 119 | 233 | 7 | 275 MRM-22 | 82 | 1,030 | 479 | 7 |
| 196 MQM-06 | 169 | 160 | 162 | 6 | 276 MRM-23 | 119 | 911 | 324 | 9 |
| 197 MQM-07 | 111 | 42 | 100 | 7 | 277 MRM-24 | 21 | 116 | 272 | 6 |
| 198 MQM-08 | 124 | 197 | 95 | 6 | 278 MRM-25 | 25 | 247 | 495 | 5 |
| 199 MQM-09 | 105 | 697 | 211 | 6 | 279 MRM-26 | 22 | 280 | 170 | 4 |
| 200 MQM-10 | 107 | 2,840 | 697 | 13 | 280 MRM-27 | 20 | 241 | 231 | 4 |
| 201 MQM-11 | 96 | 1,250 | 292 | 6 | 281 MRM-28 | 32 | 178 | 382 | 9 |
| 202 MQM-12 | 42 | 562 | 158 | 5 | 282 MRM-29 | 28 | 282 | 406 | 6 |
| 203 MQM-13 | 76 | 1,300 | 139 | 4 | | | | | |
| 204 MQM-14 | 69 | 1,120 | 286 | 9 | | | | | |
| 205 MQM-15 | 165 | 3,370 | 778 | 12 | | | | | |
| 206 MQM-16 | 164 | 1,120 | 2,520 | 50 | | | | | |
| 207 MQM-17 | 84 | 1,950 | 1,020 | 13 | | | | | |
| 208 MQM-18 | 151 | 1,640 | 698 | 8 | | | | | |
| 209 MQM-19 | 69 | 1,240 | 434 | 4 | | | | | |
| 210 MQM-20 | 38 | 897 | 680 | 7 | | | | | |
| 211 MQM-21 | 126 | 3,060 | 797 | 7 | | | | | |
| 212 MQM-22 | 27 | 746 | 556 | 11 | | | | | |
| 213 MQM-23 | 38 | 1,640 | 751 | 5 | | | | | |
| 214 MQM-24 | 53 | 1,810 | 469 | 5 | | | | | |
| 215 MQM-25 | 87 | 846 | 554 | 6 | | | | | |
| 216 MQM-26 | 21 | 454 | 276 | 3 | | | | | |
| 217 MQM-27 | 14 | 343 | 300 | 5 | | | | | |
| 218 MQM-28 | 28 | 330 | 224 | 4 | | | | | |
| 219 MQM-29 | 35 | 233 | 255 | 3 | | | | | |
| 220 MQM-30 | 14 | 289 | 276 | 4 | | | | | |
| 221 MQM-31 | 25 | 357 | 251 | 4 | | | | | |
| 222 MQM-32 | 23 | 351 | 353 | 4 | | | | | |
| 223 MQM-33 | 59 | 307 | 221 | 6 | | | | | |
| 224 MQM-34 | 39 | 253 | 380 | 8 | | | | | |
| 225 MQM-35 | 74 | 643 | 867 | 16 | | | | | |
| 226 MQM-36 | 170 | 486 | 880 | 13 | | | | | |
| 227 MQM-37 | 434 | 1,280 | 4,520 | 131 | | | | | |
| 228 MQM-38 | 48 | 519 | 772 | 23 | | | | | |
| 229 MQM-39 | 76 | 523 | 506 | 9 | | | | | |
| 230 MQM-40 | .97 | 1,560 | 999 | 13 | | | | | |
| 231 MQM-41 | 84 | 768 | 441 | 6 | | | | | |
| 232 MQM-42 | 78 | 435 | 1,790 | 42 | | | | | |
| 233 MQM-43 | 65 | 386 | 264 | 9 | | | | | |
| 234 MQM-44 | 116 | 366 | 283 | 10 | | | | | |
| 235 MQM-45 | 212 | 1,660 | 3,890 | 69 | | | | | |
| 236 MQM-46 | 116 | 1,010 | 1,270 | 26 | | | | | |
| 237 MQM-47 | 51 | 461 | 239 | 10 | | | | | |
| 238 MQM-48 | 23 | 383 | 205 | 3 | | | | | |
| 239 MQM-49 | 22 | 287 | 353 | 8 | | | | | |
| 240 MQM-50 | 55 | 205 | 452 | 8 | | | | | |

Appendix 8 Ore assay data form geological survey

| Sample No | Locality | Description | Au ppb | Ag ppm | Cu ppm | Pb ppm | Zn ppm | Sb ppm | Cd ppm | Fe % | Mn ppm |
|-----------|--------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|
| DJ-14 | Dong Noi | Pinkish carbonate veins | <5 | 0 | <1 | <2 | 16 | <2 | <.5 | 1 | 2,440 |
| DM-01 | Dong Noi | Dolomite with brown carbonate | <5 | <2 | 10 | 13 | 270 | | | | >10000 |
| DM-07 | Dong Noi | Dolomite with quartz veinlets | <5 | <2 | 12 | 13 | 250 | | | | 9,500 |
| DN-G1 | Dong Noi | Gossan | 330 | 0 | 811 | 44 | 198 | 10 | 1 | >15.00 | 685 |
| DN-G2 | Dong Noi | Gossan | 1,605 | 1 | 621 | 58 | 144 | 30 | 1 | >15.00 | 595 |
| DN-G3 | Dong Noi | Gossan | 20 | <2 | 681 | 58 | 76 | 2 | 1 | >15.00 | 405 |
| DN-G4 | Dong Noi | Gossan | 10 | 0 | 775 | 38 | 100 | <2 | <.5 | >15.00 | 460 |
| DN-G5 | Dong Noi | Gossan | <5 | 0 | 737 | 24 | 74 | <2 | <.5 | >15.00 | 205 |
| MJ-009 | Mae Ka Nai | Dark brown carbonate | <5 | 1 | 5 | 4 | 56 | <2 | 1 | 2 | 950 |
| MMR-19 | Mae Ka Nai | Gossan | <5 | 185 | 920 | 852 | 460 | | | 7 | >10000 |
| MMR-26 | Mae Ka Nai | Gossan | <5 | 1 | 68 | 558 | 1.54% | | | | |
| MMR-27 | Mae Ka Nai | Gossan | <5 | 0 | 19 | 24 | 7,500 | | | | |
| MMR-28 | Mae Ka Nai | Gossan | <5 | 0 | 63 | 28 | 8,000 | | | | |
| MMR-30 | Mae Ka Nai | Gossan | <5 | 3 | 183 | 69 | 3,000 | | | | |
| MMR-31 | Mae Ka Nai | Gossan | <5 | 0 | 61 | 36 | 3,100 | | | | |
| JR-001 | Southern I-4 | Quartz vein with sulfide | 35 | 0 | 22 | 23 | 18 | 70 | | | |
| MM-02 | Southern I-4 | Quartz vein with sulfide | <5 | 0 | 188 | 341 | 560 | | | | |
| MM-06 | Southern I-4 | Quartz vein with sulfide | 30 | 0 | 12 | 34 | 94 | 13 | | | |
| SQ-10 | Southern I-4 | Black shale with barite-galena | <5 | 0 | 25 | 615 | 140 | 1 | | | |
| M-2 | Huai Wak | sulfide veinlets | 20 | 92 | 4.18% | 1.19% | 3,700 | | | | |
| M-6 | Huai Wak | silicified rock with secondary-Cu | <5 | 14 | 5,500 | 141 | 80 | | | | |

Appendix 9 Ore assay data from drilling core samples

| | SAMPLE | Hole No. | Assay section | | Au | Ag | Cu | Pb | Zn | Sb | Sn | Cd | Mn |
|----|--------|----------|---------------|--------|-----|------|-------|--------|-------|-------|-------|------|--------|
| | | | begin(m) | end(m) | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| 1 | TM1-1 | MJTM-1 | 64.55 | 64.70 | <5 | <2 | 3 | 32 | 116 | <2 | | | 8390 |
| 2 | TM1-2 | MJTM-1 | 79.30 | 80.70 | <5 | 0.2 | 16 | 11 | 46 | | | | >10000 |
| 3 | TM1-3 | MJTM-1 | 97.60 | 98.70 | <5 | 1.0 | 22 | 21 | 420 | | | | 8800 |
| 4 | TM1-4 | MJTM-1 | 213.25 | 213.65 | <5 | 1.8 | 819 | 176 | 346 | 12 | | 0.5 | 5220 |
| 5 | TM1-5 | MJTM-1 | 221.30 | 222.00 | <5 | 0.8 | 458 | 56 | 66 | 10 | | <0.5 | 3920 |
| 6 | TM1-6 | MJTM-1 | 236.30 | 237.40 | <5 | 0.8 | 850 | 28 | 32 | 14 | | <0.5 | 3200 |
| 7 | TM2-1 | MJTM-2 | 17.00 | 21.00 | <5 | 11.6 | 98 | 1690 | 1920 | | | | 1700 |
| 8 | TM2-2 | MJTM-2 | 21.70 | 22.70 | <5 | 6.4 | 139 | 340 | 144 | | | | 1700 |
| 9 | TM2-3 | MJTM-2 | 28.70 | 30.20 | <5 | 5 | 243 | 221 | 72 | | | | 2000 |
| 10 | TM2-4 | MJTM-2 | 39.00 | 40.00 | <5 | 1.2 | 37 | 895 | 42 | | | | 1700 |
| 11 | TM2-5 | MJTM-2 | 69.20 | 70.70 | <5 | 4.6 | 22 | 728 | 4500 | | | | 1650 |
| 12 | TM2-6 | MJTM-2 | 97.60 | 99.50 | <5 | 4 | 68 | 1260 | 980 | | | | 3100 |
| 13 | TM2-7 | MJTM-2 | 148.50 | 150.00 | <5 | <2 | 12 | 8 | 36 | | | | |
| 14 | TM2-8 | MJTM-2 | 282.00 | 283.00 | <5 | 0.2 | 69 | 13 | 24 | | | | |
| 15 | TM2-9 | MJTM-2 | 320.20 | 321.80 | <5 | <2 | 13 | 101 | 92 | | | | |
| 16 | TM3-1 | MJTM-3 | 15.40 | 16.00 | <5 | 0.4 | 20 | 14 | 20 | | | | |
| 17 | TM3-2 | MJTM-3 | 20.00 | 21.00 | <5 | <2 | 11 | 18 | 10 | | | | |
| 18 | TM3-3 | MJTM-3 | 68.90 | 69.00 | <5 | 1.2 | 1.64% | 12 | 32 | | | | |
| 19 | TM3-4 | MJTM-3 | 73.00 | 74.00 | <5 | <2 | 551 | 3 | 38 | | | | |
| 20 | TM3-5 | MJTM-3 | 82.00 | 83.00 | <5 | 0.4 | 564 | 60 | 2800 | | | | |
| 21 | TM3-6 | MJTM-3 | 93.00 | 94.00 | <5 | <2 | 611 | 8 | 52 | | | | |
| 22 | TM3-7 | MJTM-3 | 98.10 | 99.30 | <5 | 0.8 | 1480 | 52 | 240 | | | | |
| 23 | TM3-8 | MJTM-3 | 104.50 | 105.70 | <5 | <2 | 5320 | 13 | 500 | | | | |
| 24 | TM3-9 | MJTM-3 | 113.60 | 115.50 | <5 | 0.8 | 889 | 33 | 280 | | | | |
| 25 | TM3-10 | MJTM-3 | 121.50 | 122.70 | <5 | <2 | 942 | 11 | 270 | | | | |
| 26 | TM3-11 | MJTM-3 | 122.70 | 123.95 | 85 | <2 | 48 | 120 | 22 | | | | |
| 27 | TM4-1 | MJTM-4 | 21.50 | 23.50 | 100 | 1 | 146 | 927 | 84 | 370 | 85 | | |
| 28 | TM4-2 | MJTM-4 | 26.00 | 28.20 | 45 | 20.6 | 310 | 2.55% | 700 | >1000 | 430 | | |
| 29 | TM4-3 | MJTM-4 | 31.40 | 33.35 | 10 | 15.8 | 335 | 8850 | 66 | 590 | >1000 | | |
| 30 | TM4-4 | MJTM-4 | 103.00 | 104.00 | <5 | 0.2 | 90 | 371 | 640 | 19 | 10 | | |
| 31 | TM4-5 | MJTM-4 | 108.80 | 109.10 | <5 | 1.6 | 22 | 3730 | 1.22% | 36 | 7 | | |
| 32 | TM4-6 | MJTM-4 | 114.00 | 115.00 | <5 | 0.6 | 153 | 226 | 160 | 88 | 3 | | |
| 33 | TM4-7 | MJTM-4 | 116.50 | 118.00 | <5 | 0.4 | 90 | 187 | 130 | 120 | 3 | | |
| 34 | TM4-8 | MJTM-4 | 201.50 | 203.10 | <5 | <2 | 63 | 16 | 54 | 5.8 | 2 | | |
| 35 | TM5-1 | MJTM-5 | 1.65 | 1.75 | <5 | 224 | 2600 | 24.90% | 242 | | | <0.1 | |
| 36 | TM5-2 | MJTM-5 | 12.00 | 12.50 | 15 | 46.4 | 1.30% | 4400 | 958 | | | <0.1 | |
| 37 | TM5-3 | MJTM-5 | 14.00 | 16.00 | <5 | 19.8 | 2480 | 874 | 560 | | | <0.1 | |
| 38 | TM5-4 | MJTM-5 | 20.00 | 21.00 | <5 | 1.4 | 708 | 194 | 378 | | | 0.7 | |
| 39 | TM5-5 | MJTM-5 | 31.00 | 32.00 | <5 | 0.4 | 703 | 26 | 80 | | | <0.1 | |
| 40 | TM5-6 | MJTM-5 | 35.50 | 37.00 | <5 | 0.2 | 352 | 43 | 129 | | | 0.2 | |
| 41 | TM5-7 | MJTM-5 | 51.50 | 52.00 | <5 | 0.6 | 410 | 55 | 66 | | | <0.1 | |
| 42 | TM5-8 | MJTM-5 | 62.50 | 64.00 | <5 | 0.6 | 767 | 30 | 39 | | | <0.1 | |
| 43 | TM5-9 | MJTM-5 | 71.50 | 73.00 | <5 | 0.6 | 363 | 21 | 42 | | | <0.1 | |
| 44 | TM5-10 | MJTM-5 | 79.00 | 80.50 | <5 | <0.2 | 237 | 23 | 37 | | | <0.1 | |
| 45 | TM5-11 | MJTM-5 | 85.50 | 86.60 | <5 | <0.2 | 254 | 10 | 62 | | | <0.1 | |
| 46 | TM5-12 | MJTM-5 | 97.20 | 98.60 | 10 | 2.2 | 1685 | 16 | 22 | | | <0.1 | |

Appendix 10 Equipment of drilling survey

| Item | Model/Spec. | Quantity | Remarks | |
|----------------------|-------------|----------------------|--------------------------|---|
| Drilling Machine | | 2 | | |
| Rig No.1 | Drill Rig | MPR-3(multi purpose) | 1 | made in Australia on Cat 320 Max HQ400m |
| | Engine | Detoroit 671 | 1 | Detroit(USA) diesel 250HP |
| | Mud Pump | Bean Royal 435 | 1 | Rexroth(Australia) 30gal/min |
| | Mud Mixer | | 1 | hydraulic moter powered by MPR-3 |
| Rig No.2 | Drill Rig | Longyear 38 | 1 | Longyear Australia |
| | Engine | F5L912 | 1 | Klockner Humbordl Deutz AG, diesel 83HP |
| | Mud Pump | Bean Royal 435 | 1 | Rexroth(Australia) 30gal/min |
| | Mud Mixer | | 1 | hydraulic moter powered by LY-38 |
| | LC614 | 2 | FMC corporation(USA) | |
| Drilling Rod | PQ | 40 | 3.05m/rod | |
| | HQ | 115 | 3.05m/rod | |
| | NQ | 210 | 3.05m/rod | |
| Core Barrel Assembly | PQ | 4 | 2.60m(core length 1.60m) | |
| | HQ | 4 | 3.80m(core length 2.80m) | |
| | HQ | 4 | 2.60m(core length 1.60m) | |
| | NQ | 4 | 2.60m(core length 1.60m) | |
| | NQ | 4 | 4.20m(core length 3.50m) | |

Appendix 11 Articles of consumption during drilling survey

| Item | Spec. | Total | MJTM-1 | MJTM-2 | MJTM-3 | MJTM-4 | MJTM-5 |
|--------------------|-------|--------|--------|--------|--------|--------|--------|
| Metal Crown | 5" | 1 | | 0.5 | | 0.5 | |
| Diamond Bit | PQ | 2 | 1.5 | | 0.5 | | |
| | HQ | 12 | 3 | 2 | 2 | 3 | 2 |
| | NQ | 10 | 3 | 7 | | | |
| Reamer | PQ | 2 | 1.5 | | 0.5 | | |
| | HQ | 8 | 3 | 1 | 2 | 1 | 1 |
| | NQ | 6 | 3 | 3 | | | |
| Casing Shoe | PW | 1 | 0.5 | | 0.5 | | |
| | HW | 3 | 1 | | 1 | | 1 |
| | NW | 1 | | 1 | | | |
| Aus-Gel(bentonite) | Kg | 1,400 | | 1,050 | 100 | 200 | 50 |
| Ml-Gel(bentonite) | Kg | 487 | 487 | | | | |
| Quick Trol | Kg | 175 | | 137 | | 38 | |
| Ploymer | Liter | 125 | 77 | 15 | 33 | | |
| Liqui-Pol | Kg | 1,533 | 138 | 950 | | 425 | 20 |
| Aqua-Pac | Liter | 137 | 115 | 15 | 7 | | |
| Aus-Plug | Kg | 10 | 10 | | | | |
| LCM | bag | 3 | | 2 | 1 | | |
| Cement | kg | 345 | 180 | 75 | 10 | | 80 |
| | | | | | | | |
| Diesel oil | Liter | 11,159 | 4,133 | 3,321 | 1,215 | 1,865 | 625 |
| Core box | Box | 221 | 53 | 71 | 32 | 42 | 23 |

