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APPENDICES

APPENDIX A

APPENDIX B

Grain size analysis by sieving

159-213

APPENDIX C

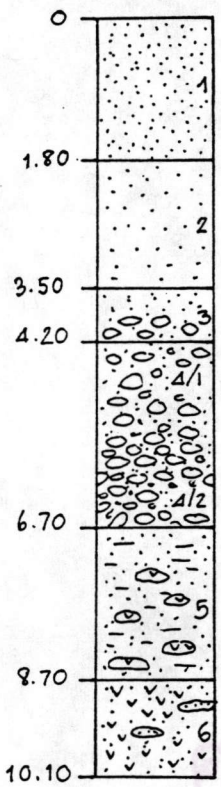
Morphometrical Gravel Analysis

214-224

CHULALONGKORN UNIVERSITY
Department of Geology

Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 6/2/93
Log no. BP1 Location USM mines.
Grid ref. 5540 8985 Map sheet 4937 IV
Total depth 10.10 m. Pitting size -
Recorder Mr. P. Tungpong Remark

Meter Sketch



Description

1. Top soil, silty sand, Pale yellowish brown (10YR 6/2),
2. Sandy silt, Grayish orange pink (5YR 7/2), moderately sorted.
3. Top gravel bed,Dark yellowish orange (10YR 6/6), coarse sand with gravels, Light olive gray (5YR 6/1), average size 1-6 cm, gravels are quartz, quartzite,laterite about 60%, spinels

4/1. Gravel bed, Moderate brown (5YR 4/4) and Light olive gray (5YR 6/1), gravels are quartz, quartzite, chert and basalt, laterite with average size 2-5 cm about 60%, spinel.

4/2. Gravel bed, Greenish gray (5G 6/1) and Dark yellowish orange (10YR 6/6) with some gravels of quartz, quartzite chert about 60%, spinel and sapphires.

5. Weathered basalt, Yellowish gray (5Y 7/2) and Dusky yellow (5Y 6/4) and Moderate yellowish brown (10YR 5/4), some weathered basalt size 1-5 cm about 35%. Gravels are quartz, chert with subangular roundness, spinel, zircon, magnetite.
6. Basalt, Dark gray (N3), with some clay, Yellowish gray (5Y 7/2) in fresh basalt, spinel.

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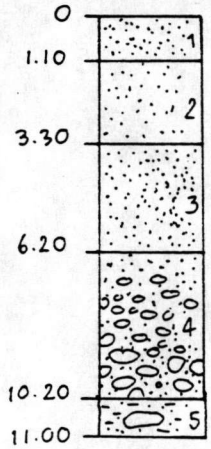
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 7/2/93
Log no. BP 2 Location USM mines, Ban Chong Dan.
Grid ref. 5590 8955 Map sheet 4937 IV
Total depth 11.00 m. Pitting size -
Recorder Mr. C. Sutthirat Remark

Meter Sketch



Description

1. Top soil, Grayish orange pink (5YR 7/2), silty sand.
2. Silty sand and fine to medium sand, Grayish orange pink (5YR 7/2).
3. Silty clay with fine sand, Grayish orange pink (5YR 7/2), and Dark yellowish orange (10YR 6/6).
4. Gravel bed, Dark yellowish orange (10YR 6/6) and Light greenish gray (5GY 8/1), with sand matrix. Gravels are quartzite, quartz, chert about 25%, spinel, zircon.
5. Laterite, Moderate brown (5YR 4/4), mixed with Pale yellowish brown (10YR 6/2), some gravels and spinel.

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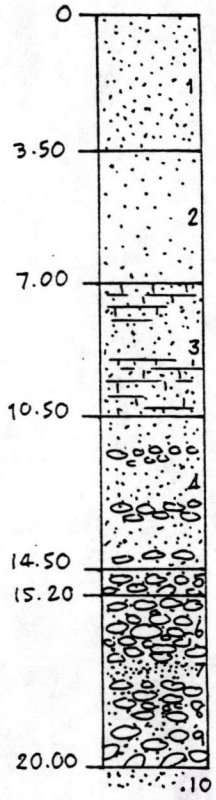
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 22/2/93
Log no. BP3 Location Phloi Kan Co.,Ltd.
Grid ref. 5380 8390 Map sheet 4837 I
Total depth 20.00 m. Pitting size -
Recorder Mr. P. Tungpong. Remark

Meter Sketch



Description

1. Top soil, Light brownish gray (5YR 6/1), silty clay.
2. Sand layer, Light olive gray (5Y 6/1).
3. Secondary limestone layer, Light olive gray (5Y 6/1), with some subangular gravels, Dark yellowish orange (10YR 6/6).
4. Sand layer with gravels, Light olive gray (5Y 6/1), with medium to coarse sand matrix.
5. Top gravel bed, Dark yellowish orange (10YR 6/6), with coarse sand matrix, gravels are quartzite, quartz, chert about 50%, spinels.
6. Gravel layer, Greenish gray (5GY 6/1),with sand matrix, gravels are quartz, quartzite, chert about 60%. Spinels
7. Clay layer with fine sand, Dusky yellowish green (5GY 5/2), gravels are quartzite, chert, quartz and basalt with average size 1-6 cm, spinel
8. Gravel bed, Greenish gray (5GY 6/1), gravels are quartz, quartzite, chert with average size 1-15 cm about 60%, spinel.
9. Gravel bed, Greenish gray (5GY 6/1) with average size 1-25 cm, gravels are quartz, quartzite, chert about 60% spinels.
10. Bedrock of secondary limestone with sand, Greenish gray (5GY 6/1).

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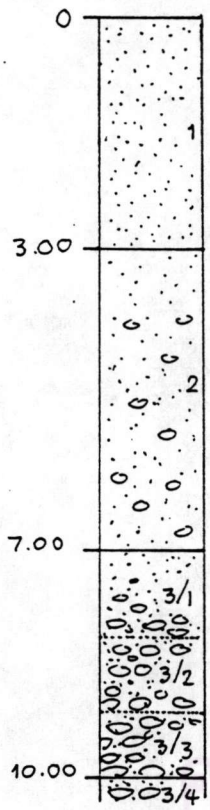
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 23/2/93
Log no. BP4 Location Huai Num Pu
Grid ref. 5670 8910 Map sheet 4937 IV
Total depth 10.00 m. Pitting size -
Recorder Mr. P. Tungpong Remark

Meter Sketch



Description

1. Top soil, silty clay, Pale yellowish brown (10YR 6/2).
2. Laterite layer with clay, Dark yellowish orange (10YR 6/6) with some gravels of sandstone, quartzite, quartz chert about 40%.

3/1. Top gravel layer with clay, Yellowish gray (5Y 7/2), and Dusky yellow (5Y 6/4) and Moderate yellowish brownish brown (10YR 5/4), gravels are quartz,chert with average size 2-20 cm, spinel

3/2. Bottom gravel layer, Yellowish gray (5Y 7/2) with clay, Dusky yellow (5Y 6/4), some gravels are quartz, quartzite, spinel.

3/3. Gravel layer, Yellowish gray (5Y 7/2), gravels are quartzite, quartz average size 20 cm, spinel.

3/4. Bedrock consists of clay, Yellowish gray (5Y 7/2), with sand, Dark gray (N 3), some subrounded gravel of quartz, quartzite,chert average size 3-15 cm.

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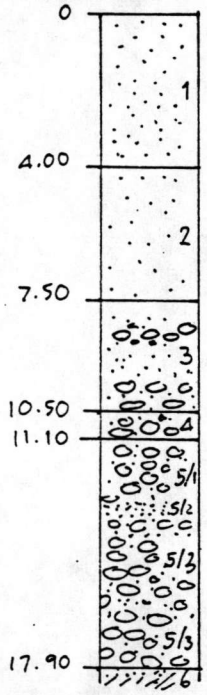
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 24/2/93
Log no. BP5 Location Tri Siri Co.,Ltd.
Grid ref. 5345 8330 Map sheet 4837 I
Total depth 17.90 m. Pitting size -
Recorder Mr. P. Tungpong. Remark

Meter Sketch



Description

1. Top soil, silty sand, Light brownish gray (5YR 6/1).
2. Sandy silt and fine sand, Moderate yellowish brown (10YR 5/4).
3. Sand layer with gravels in the bottom, Light olive gray (5Y 6/1) and Dark yellowish orange (10YR 6/6). Gravels are quartzite, quartz, flint about 30% with size varies from 1-5 cm.
4. Top gravel bed, Dark yellowish orange (10YR 6/6), gravels are quartzite, chert about 60%, spinels

5/1. Gravel bed, Greenish gray (5G 6/1), average size 1-15 cm, about 50% of quartzite, quartz,chert, flint, spinels.

5/2. Clay and fine sand layer, Greenish gray (5G 6/1).

5/3. Gravel bed about 60% of quartzite, quartz, flint , Greenish gray (5G 6/1), spinels.

6. Weathered bedrock of quartzite, Greenish gray (5G 6/1).

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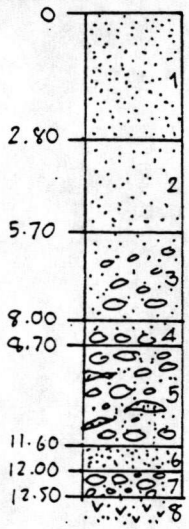
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 25/2/93
Log no. BP 6 Location SAP mines Co., Ltd.
Grid ref. 5410 8925 Map sheet 4937 IV
Total depth 12.50 m. Pitting size -
Recorder Mr. C. Sutthirat Remark

Meter Sketch



Description

1. Top soil, Moderate yellowish brown (10YR 5/4), fine sand.
2. Silty sand, Light olive gray (5Y 6/1).
3. Fine sand, Light brown (5YR 6/4), about 60%, coarse sand 20% average size 4-6 cm, low sphericity, wood fragments.
4. Silty sand, Moderate brown (5YR 4/4), about 50%, fine sand about 30%, gravel about 20%, spinels
5. Coarse sand, Moderate light gray (N 6), some gravels about 20%, low sphericity, some clay lens, Greenish gray (5G 6/1), spinels.
6. Fine sand, Dark yellowish brown (10YR 4/2).
7. Gravel bed of quartzite, quartz, chert, flint, spinel.
8. Weathered basalt.

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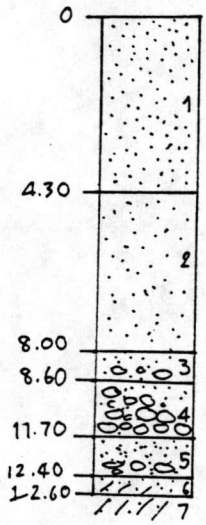
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 25/2/93
Log no. BP7 Location Tri Siri Co.,Ltd.
Grid ref. 5380 8190 Map sheet 4837 I
Total depth 12.60 m. Pitting size -
Recorder Mr. C. Sutthirat Remark

Meter Sketch



Description

1. Top soil, sandy clay, Grayish orange (10YR 7/4).
2. Sandy silt to fine sand, Grayish orange pink (5YR 7/2).
3. Top gravel layer, Very light gray (N 8), fine to coarse sand and gravels of quartzite, quartz, chert, spinel.
4. Gravel bed, Moderate light gray (N 6), coarse sand matrix
   - 4/1. Top : coarse sand 70%, gravel 30%, spinel
   - 4/2. Middle : coarse sand 60%, gravel 40%, spinel
   - 4/3. Bottom : Coarse sand 40%, gravel 60%, large size than above layer, spinel.
5. Fine sand with gravel in the bottom, Moderate light gray (N 6), gravels are quartzite, quartz, chert about 10%.
6. Saprolite layer of weathered bedrock, Light brown, gravels with low sphericity, some rock fragments, spinel.
7. Weathered bedrock of quartzite, Grayish green (10GY 5/2).

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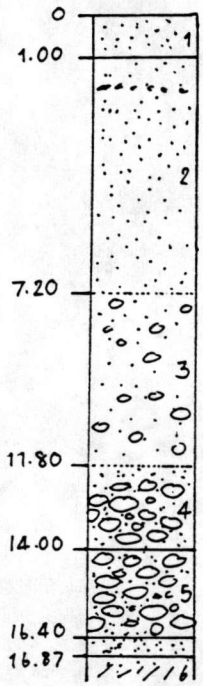
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 26/7/93
Log no. BP 18 Location PD mining Co., Ltd.
Grid ref. 5428535 Map sheet 4937 IV
Total depth 16.87 m. Pitting size -
Recorder Mr. M. Choowong. Remark

Meter Sketch



Description

1. Top soil, Pale yellowish brown (10YR 6/2), silty sand with root plants, gradual contact.
2. Silty sand, Grayish orange (10YR 7/4), some iron concretion, latertic layer, gradual contact.
3. Top kresa, Very pale orange (10YR 8/2), mottle layer, silty sand cement, Pale yellowish orange (10YR 8/6), Gravels are chert, quartzite, quartz with some coarse sand in the bottom, low sphericity, friable, gradual contact.
4. Middle krasa, Dark yellowish orange (10YR 6/6), coarse sand matrix within gravels of quartzite, quartz, chert,with average size 2-5 cm in diameters, fining upward sequence gradual contact.
5. Bottom krasa,gravel bed of quartzite, quartz, chert with average size 10 cm, high sphericity, subsounded to rounded, maximum size of gravels about 30 cm, with some clay lens, spinel, sapphire, sharp contact.
6. Weathered quartzite bedrock, Pale yellowish orange (10 YR 8/6) and Light brown (5YR 5/6).

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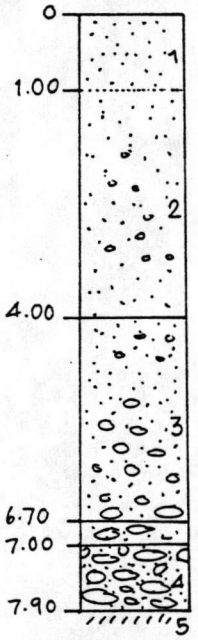
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 26/7/93
Log no. BP19 Location USM mines.
Grid ref. 5665895 Map sheet 4937 IV
Total depth 7.90 m. Pitting size -
Recorder Mr. M. Choowong. Remark

Meter Sketch



Description

1. Top soil, clayey silt, Pale brown (5YR 5/2), root plants. gradual contact.
2. Mottle layer, Pale brown (5YR 5/2), and Grayish orange (10YR 7/4), some rock fragments of chert, quartzite, quartz with low sphericity, angular roundness average size 5 cm, some stratified like was observed.
3. Top gravel bed, Light brown (5YR 5/6), and Very pale orange (10YR 8/2) of mottle spot, rock fragments about 6-7 cm of quartzite, quartz with low sphericity, subangular.
4. Gravel bed of rock fragments, Light brown (5YR 5/6), and Pale yellowish orange (10YR 8/6), gravels of chert, quartzite, quartz with subangular, clay matrix, spinel, sapphires.
5. Bedrock, Medium bluish gray (5B 5/1), clay content. Bedrock of weathered quartzite.

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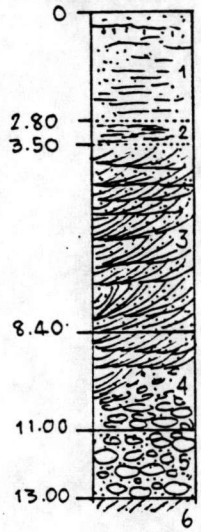
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 6/2/94
Log no. BP21 Location Bo Phloi Charoenrat Co.,Ltd.
Grid ref. 532855 Map sheet 4937 IV
Total depth 13.00 m. Pitting size -
Recorder Mr. M. Choowong. Remark

Meter Sketch



Description

1. Top soil, Very pale orange (10YR 8/2), clayey silt and sandy clay, mud crack, gradual contact.
2. Fine sand, Very pale orange (10YR 8/2), with some stratified layer, gradual contact.
3. Coarse sand, Very pale orange (10YR 8/2), cross-lamination, wood fragments, fining upward sequence, gradual contact.
4. Coarse sand with gravel in the bottom, Dark yellowish orange (10YR 6/6), and Light gray (N 7), gravels are quartzite, quartz,chert with low sphericity, subangular to subrounded roundness, sharp contact.
5. Grabel bed, Dark yellowish orange (10YR 6/6), gravels are quartzite, quartz, chert, flint with subangular to ubrounded roundness about 30% and coarse matrix about 70 %, spinel
6. Bedrock of weathered quartzite, Dark yellowish orange (10YR 6/6).

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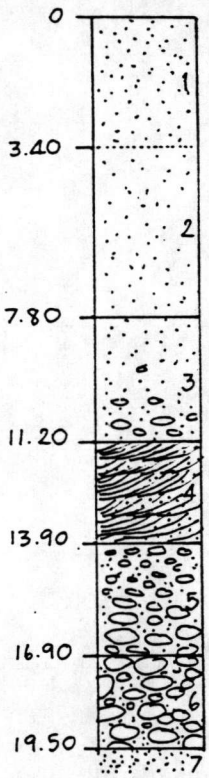
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 7/2/94
Log no. BP22 Location Bun Manee mining Co., Ltd.
Grid ref. 530844 Map sheet 4837 I
Total depth 19.50 m. Pitting size -
Recorder Mr. M. Choowong. Remark

Meter Sketch



Description

1. Top soil, Pale yellowish brown (5YR 6/2), silty clay, gradual contact.
2. Sandy clay, Light brown (5YR 6/4), sharp contact.
3. Medium to coarse-grained sand, Very pale orange (10YR 8/2), some gravels of quartzite, chert, gradual contact.
4. Coarse sand with gravel in the bottom, Grayish orange (10YR 7/4), gravels are chert, quartzite, quartz with average size 3-4 cm, cross-lamination, loose packing, sharp contact.
5. Top gravel bed, Grayish orange pink (5YR 7/2), gravels are quartzite, chert, quartz with average size 8-10 cm, low sphericity, subrounded roundness, gradded bedding, coarse sand matrix with loose packing, gradual contact.
6. Bottom gravel bed, Very pale orange (10YR 8/2), gravels are quartzite, quartz, chert with average size 10 cm about 70%, high sphericity, subrounded roundness, moderate sorted, coarse sand matrix with loose packing, gradded bedding structure, sharp contact.
7. Bedrock of sand, Dark yellowish orange (10YR 6/6) and Pale greenish yellow (10Y 8/2), some mica ocurrence.

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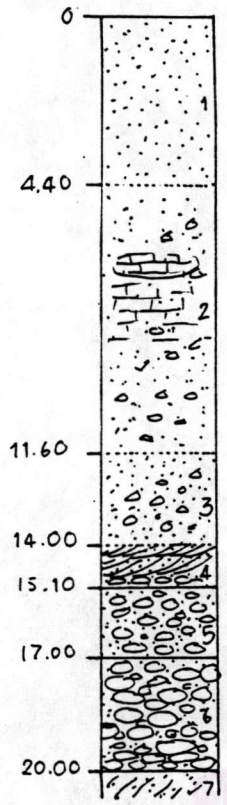
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 14/2/94
Log no. BP 23 Location Bo Phloi Choenroemrat Co., Ltd.
Grid ref. 5288485 Map sheet 4837 I
Total depth 20.53 m. Pitting size -
Recorder Mr. M. Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Dark yellowish brown (10YR 6/2), gradual contact.
2. Secondary limestone layer, Dark yellowish orange (10YR 6/6), clasts of chert, quartz and limestone with low sphericity, angular roundness, and calcareous cements with Pink gray (5YR 8/1) are observed.
3. Fine sand, Grayish orange (10YR 7/4), some gravels of quartz, chert, quartzite with low sphericity and angular roundness with average size 2 cm. gradual contact.
4. Coarse sand with gravels, Very pale orange (10YR 8/2)
   4/1 Fine to medium sand, no cross-lamination, some granules and pebbles of chert, quartzite,quartz, sharp contact boundary.
   4/2 Coarse sand with cross-lamination with pebbles of chert, quartz, quartzite, sharp contact.
   4/3 Gravel bed of chert, quartzite, quartz with average size 3-5 cm, coarse sand matrix, low sphericity, subangular to subrounded roundness, sharp contact.
   4/4 Medium to coarse sand with long cross-lamination, sharp contact.
5. Gravel layer, Dark yellowish orange (10YR 6/6), clasts of chert, quartz, quartzite with average size 5-10 cm, coarse sand matrix.
6. Gravel bed, Light brown (5YR 5/6), gravels are chert, quartzite, quartz average size 10 cm, low sphericity, subrounded roundness, some basalt looseblock with some spinel, pyroxene are observed. Spinel, sapphires.
7. Bedrock of weathered quartzite.

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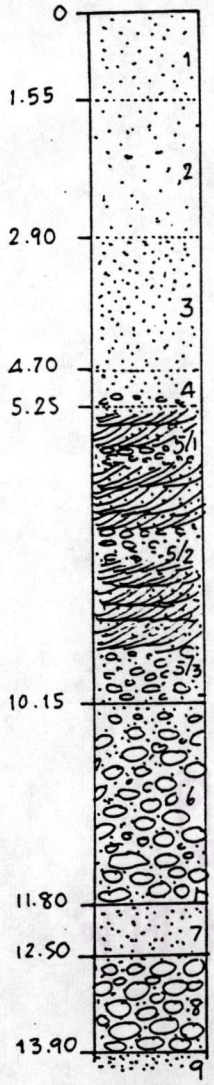
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 19/6/94
Log no. BP 59 Location Tri Siri Co., Ltd.
Grid ref. 5295 837 Map sheet 4837 I
Total depth 13.90 m. Pitting size -
Recorder Mr. M. Choowong Remark

Meter Sketch



Description

1. Top soil, Pale brown (5YR 5/2), silty clay with root plants, gradual contact.
2. Clayey silt layer, Dark yellowish orange (10YR 6/6) and Pale yellowish brown (10YR 6/2), some mottle.
3. Fine sand, Grayish orange (10YR 7/4) and Very Pale orange (10YR 8/2), silty clay.
4. Fine to medium sand, Dusky orange (5Y 6/4) and Dark yellowish orange (10YR 8/2), some gravels of chert, quartzite in the bottom.

5/1. Medium to coarse sand, Grayish orange (10YR 7/4), cross-lamination, some gravel in the bottom.

5/2. Medium to coarse sand, Dark yellowish orange (10YR 6/6), cross-lamination, oxidized in some layer with Moderate brown (5YR 3/4).

5/3. Top gravel bed, Pale yellowish brown (10YR 6/2) and Dark yellowish brown (10YR 4/2), gravels are quartzite, quartz, jasper, cross-bedding and graided bedding, wood fragments.

6. Bottom gravel bed, Dark yellowish brown (10YR 4/2), gravels are quartzite, quartz, chert, high sphericity, sub-rounded to rounded roundness, spinel.
7. Coarse sand, Dark yellowish brown (10YR 6/2)
8. Gravel bed, Dark yellowish brown (10YR 4/2), gravels are quartzite, quartz, chert with coarse sand matrix, gravel about 70%, spinel, sapphire.
9. Bedrock, Dark yellowish orange (10YR 6/6), clayey silt.

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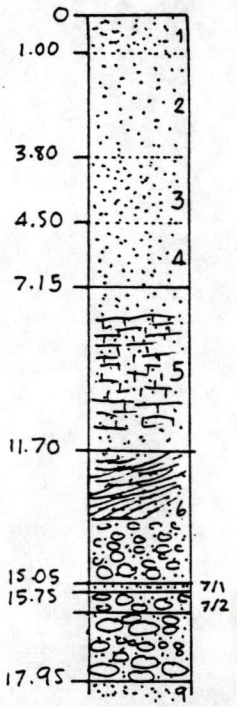
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 20/6/94
Log no. BP 60 Location USM mines.
Grid ref. 529 841 Map sheet 4837 I
Total depth 17.95 m. Pitting size -
Recorder Mr. M. Choowong Remark

Meter Sketch



Description

1. Top soil, Pale yellowish brown (10YR 6/2), clayey silt, some archaeological finds
2. Sily clay, Grayish orange pink (5YR 7/2), mottle spot.
3. Clayey silt, Dusky brown (5YR 7/2).
4. Mottle layer, Grayish orange (10YR 7/4), clayey silt with mottle spots
5. Secondary limestone, Yellowish gray (5Y 8/1), sandy silt with calcium carbonate, some gravels with average 1-2 cm.
6. Top gravel bed, Yellowish gray (5Y 7/2), gravels are quartzite, quartz about 80% with coarse sand matrix, friable, cross-lamination, cross-bedding.

7/1. Fine sand, Yellowish gray (5Y 7/2).

7/2. Gravel bed, Yellowish gray (5Y 7/2), gravels are quartzite, quartz, chert and sandstone, low sphericity, subangular to subrounded roundness.

8. Grevel bed, Yellowish gray (5Y 7/2), gravels are quartzite, chert, wood fragment in mud boulders
9. Bedrock, Grayish brown (5YR 3/2), fine sand.

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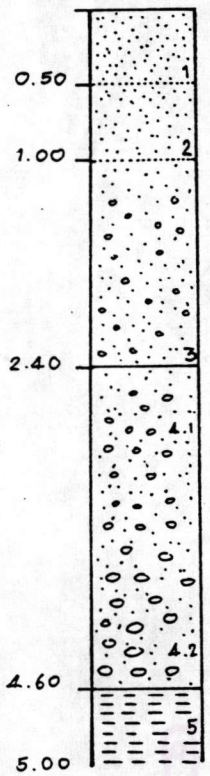
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 28/6/93
Pitting no. BP 8 Location Huai Khao Khew
Grid ref. 56258565 Map sheet 4937 IV
Total depth 5.00 m Pitting size 1*1 m
Recorder Mr. Montri Choowong Remark

Meter Sketch



Description

1. Silty sand to fine sand, Pale yellowish brown (10YR 6/2), gradual contact.
2. Fine sand and medium sand, Moderate brown (5YR 4/4), gradual contact.
3. Lateritic soil with iron concretion, 10R 4/6, gravels are quartzite, chert, sandstone with low sphericity, angular roundness, size 3 mm to 5 mm.
4. 1 Top krasa layer, grayish orange pink (5YR 7/2), gravels are quartzite, chert with average size of 10 cm., low sphericity, subangular roundness. Matrix of coarse sand, poorly sorted, magnetite, some spinel
4.2 Bottom krasa layer, greyish orange pink (5YR 7/2), gravels are quartzite, chert about 70 % average size of 15 cm, low sphericity and subangular roundness, matrix of lateritic gravel, pyroxene, hematite.
5. Bedrock of weathered quartzite with very pale orange (10YR 8/2) of clay.

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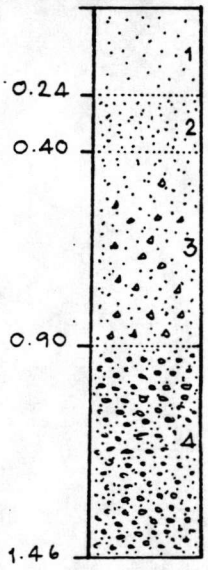
Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 29/6/93
Pitting no. BP9 Location Creek , east of Khao Kaew
Grid ref. 5618515 Map sheet 4937 IV
Total depth 1.46 m. Pitting size 1 x 1 m^2
Recorder Mr. Montri Choowong Remark Hard-pan laterite in bottom.

Meter Sketch



Description

1. Silty clay, Greyish brown (5YR 3/2), colluvium deposit, gradual contact.
2. Clay, Dark yellow brown (10YR 4/2), with root plants, gradual contact
3. Fine to medium sand, Dark yellowish orange (10 YR 6/6) with rock fragments of sandstone, quartzite and lateritic gravel and iron concretion, gradual contact.
4. Laterite, Light brown (5YR 5/6), lateritic gravel, iron concretion of mottle zones with black spot. Magnetite occurrence.

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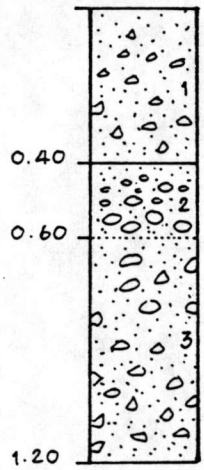
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 29/6/93
Pitting no. BP10 Location Small hill beside Khao Khew.
Grid ref. 5565849 Map sheet 4937 IV
Total depth 1.20 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong Remark Old quarry surrounded.

Meter Sketch



Description

1. Residual deposit of sandstone(orthoquartzite), Pale yellowish brown (10 YR 6/2), with root plants and some rock fragments of quartz vein.
2. Lateritic gravel with orthoquartzite, quartz vein with small size than 1 layers.
3. Rock fragments of orthoquartzite, quartz vein with average size 15 cm. Matrix of lateritic concretion, Light brown (5YR 5/6). Bedrock of weathered sandstone with some hematite and magnetite.

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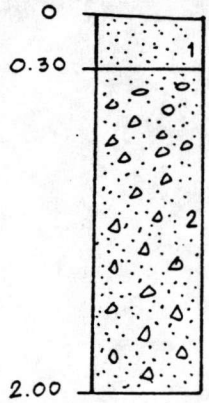
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 2/7/93
Pitting no. BP 11 Location low hill east of Khao Kaew.
Grid ref. 561862 Map sheet 4937 IV
Total depth 2.00 m. Pitting size 1×1 m^2.
Recorder Mr. Montri Choowong Remark

Meter Sketch



Description

1. Residual deposits of coarse sand, Pale yellowish brown (10 YR 6/2) with root plant and rock fragments of sandstone, quartzite, quartz., gradual contact
2. Rock fragments of quartzite boulders, Light brown (5YR 5/6), lateritic gravel matrix, magnetites and hematite.

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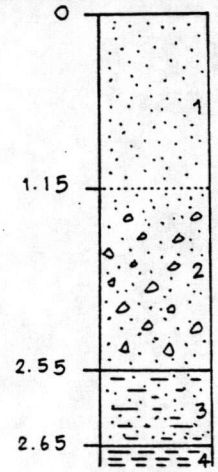
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 3/7/93
Pitting no. BP 12 Location Huai Phu creek.
Grid ref. 566864 Map sheet 4937 IV
Total depth 2.65 m. Pitting size 1×1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, Yellowish brown (10 YR 4/2) with root plants, fine sand with rock fragment of sandstone, quartzite, matrix of clay, gradual contact.
2. Colluvium deposits, Pale yellowish brown (10YR 6/2) with rock fragments of sandstone, quartzite, chert, gradded bedding , moderately sorted, subangular, low sphericity, hematite, magnetite.
3. Weathered bedrock of quartzite, matrix of clay, Light brown (5YR 5/6) with magnetite, hematite.
4. Bedrock of quartzite, mottle, Light brown (5YR 6/4), matrix of clay, Greyish orange (10YR 7/4).

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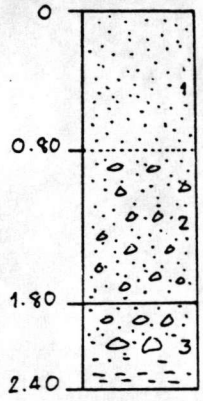
Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 3/7/93
Pitting no. BP 13 Location Old quarry , Huai Krok Krak.
Grid ref. 5789335 Map sheet 4937 IV
Total depth 2.40 m. Pitting size -
Recorder Mr. Montri Choowong Remark Old quarry of SAP mines.

Meter Sketch



Description

1. Top soil , Moderate reddish brown (10 YR 4/6), colluvium deposits with lateritic concretions, gradual contact.
2. Colluvium deposits with rock fragments of chert, quartzite, sandstone, moderately sorted, low sphericity subangular roundness, hematite.
3. Bedrocks of quartzite, Pale yellowish orange (10 YR8/6) and Reddish brown (10YR 4/6).

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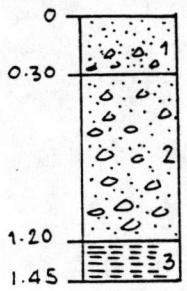
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 4/7/93
Pitting no. BP 14 Location Low hill near Huai E-Lok.
Grid ref. 5815944 Map sheet 4937 IV
Total depth 1.45 m. Pitting size 1 x 1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, clayey silt, Pale yellowish brown (10YR 6/2), with root plants and rock fragments of sandstone, quartzite, gneiss with some slickenside, low sphericity, subangular roundness, average size 10 cm. with maximum size 20 cm, colluvium deposits.
2. Lateritic gravel, Greyish orange (10YR 7/4) with rock fragment of quartzite maximum size of 50 cm., poorly sorted, angular and low sphericity, colluvium deposits
3. Bedrocks of quartzite with some iron concretions, Very pale orange (10YR 8/2) and Light brown (5YR 5/6)

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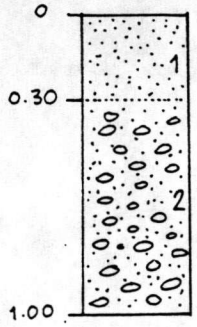
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 27/7/93
Pitting no. BP20 Location east of Khao Sky Lab.
Grid ref. 5645873 Map sheet 4937 IV
Total depth 4.00 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, clayey silt, Pale yellowish brown (10YR 6/2), with rock fragments average 5 cm, root plants, gradual contact.
2. Lateritic gravel, Light brown (5YR 6/4), rock fragment of quartzite, quartz vein, lateritic cement, gravel is well sorted, spinel occurrence.

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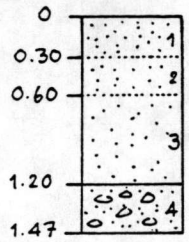
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 16/2/94
Pitting no. BP 25 Location Ban Hin Lap.
Grid ref. 496709 Map sheet 4837 II
Total depth 1.47 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark 200 m from the present Lam Ta Phoen.

Meter Sketch



Description

1. Top soil, clayey silt, Dark yellowish brown (10YR 4/2), gradual contact.
2. Silty clay, Grayish brown (5YR 3/2), gradual contact.
3. Sandy silt, Moderate brown (5YR 4/4) ,sharp contact.
4. Gravel layer, Moderate brown (5YR 4/4), gravels are quarztite, quartz, chert, low sphericity, subrounded roundness, calcium carbonate with sand cement, firm, sapphire,spinel occurrences.

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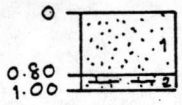
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 17/2/94
Pitting no. BP26 Location Khao Hin Lap.
Grid ref. 4947065 Map sheet 4937 II
Total depth 1.00 m. Pitting size 1×1 m^2.
Recorder Mr. Montri Choowong. Remark Hard calcrete in the bottom.

Meter Sketch



Description

1. Top soil, silty clay, Pale yellowish brown (10YR 6/2),
2. Krang layer, calcium carbonate, Greyish orange (10 YR 6/6), hard-pan calcrete.

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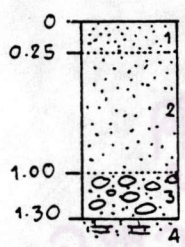
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 18/2/94
Pitting no. BP27 Location Khao Hin Lap.
Grid ref. 4965708 Map sheet 4837 II
Total depth 1.30 m. Pitting size 1×1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Light brown (5YR 5/6), root plants. gradual contact.
2. Sandy silt, Dark orange pink (5YR 4/2), gradual contact
3. Gravel layer, Greyish orange pink (5YR 7/2), gravels are chert, quartzite, quartz with average size 15-20 cm.and maximum size 30 cm., low sphericity, subangular to angulay roundness, calcium carbonate cements, matrix of quartz, quartzite and secondary limestone (calcrete), sharp contact.
4. Bedrock of limstone conglomerate with clasts of chert, quartzite, quartz and sandstone.

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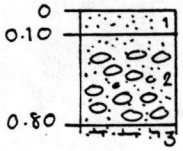
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 20/2/94
Pitting no. BP 28 Location Khao Hin Lap.
Grid ref. 495712 Map sheet 4837 II
Total depth 0.80 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Pale yellowish brown (10YR 6/2), some nodule of secondary limestone, sharp contact.
2. Gravel layer, Pale yellowish brown (10YR 6/2), gravels are quartzite, quartz, limestone with average size 10 cm, high sphericity, subrounded to subangular roundness, sand cement with some nodule of limestone, poorly sorted, loose, sharp contact.
3. Bedrock of limestone conglomerate, clasts are quartzite, quartz, sandstone and limestone.

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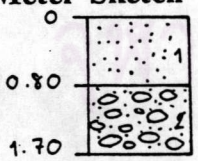
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 21/2/94
Pitting no. BP 29 Location Khao Hin Lap.
Grid ref. 5047065 Map sheet 4837 II
Total depth 1.70 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark Groundwater filled.

Meter Sketch



Description

1. Top soil, clayey silt, Dark yellowish brown (10YR 4/2), root plants, sharp contact.
2. Gravel layer, Very pale orange (10YR 8/2), gravels are chert, limestone conglomerate with average size 10 cm, matrix of quartzite, poorly sorted, subangular to sub-rounded roundness, friable, calcium carbonate cement, gravel is about 30 %., corundum and spinel occurrence.

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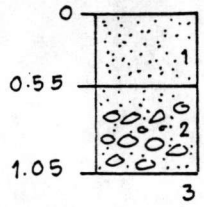
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 22/2/94
Pitting no. BP 30 Location Ban Tha Jang, Khao Hin Lap.
Grid ref. 477703 Map sheet 4837 II
Total depth 1.05 m. Pitting size 1×1 m^2
Recorder Mr. Montri Choowong Remark

Meter Sketch



Description

1. Top soil, sandy silt, Greyish brown (5YR 3/2), root plant.
2. Gravel layer, Light brown (5YR 5/6), gravels are quartzite, quartz, limestone with average size 15 cm., low sphericity, subangular to subrounded roundness, fine to coarse sand cements, loose, spinel, cunrundum.
3. Bedrock of limestone conglomerate.

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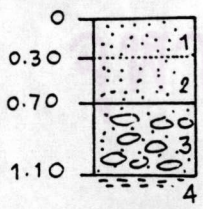
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 25/5/94
Pitting no. BP31 Location Khao Lan, Ban Tha Jang.
Grid ref. 476 693 Map sheet 4837 II
Total depth 1.10 m. Pitting size 1×1 m^2
Recorder Mr. Pravat Tungpong. Remark

Meter Sketch



Description

1. Top soil, silty sand, Moderate yellowish brown (10YR 5/4), gradual contact.
2. Clayey silt, Dark grey (N5), root plants.
3. Gravel layer with sand, gravels are quartzite, quartzite, subrounded roundness.
4. Krang layer, gravels are quartzite, limestone, with average calcium carbonate cements., Dark grey (N5).

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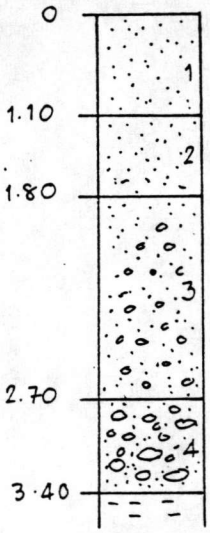
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 28/2/94
Pitting no. BP 32 Location Khao Hin Lap.
Grid ref. 4975 704 Map sheet 4837 II
Total depth 3.40 m. Pitting size 1×1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Greyish orange pink (5YR 7/2), root root plants with mottle, Very pale orange (10YR 8/2), and the lower part of this layer is clayey silt, Yellowish brown (10YR 6/2).
2. Clayey silt, Pale yellowish brown (10YR 6/2), gradual contact.
3. Fine sand layer, Light red (5YR 6/2), granule of quartzite quartz, shows fining upward sequences, gradual contact.
4. Gravel layer, Greyish orange pink (5YR 7/2), gravels are chert, quartzite, quartz with average size 5 cm, low sphericity, subrounded roundness, coarse sand matrix, spinel occurrence.

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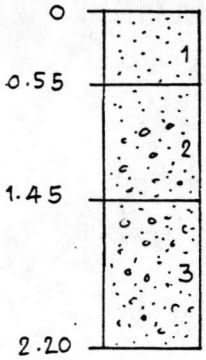
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 26/5/94
Pitting no. BP 34 Location Khao Chuk Krata.
Grid ref. 460910 Map sheet 4837 I
Total depth 2.20 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Pale yellowish brown (10YR 6/2), root plants, terra rosa.
2. B-horizon, silty clay, Light brown (5YR 5/6), mottles of lateritic granules, rasin and root plants.
3. Lateritic layer, Moderate reddish brown (10R 4/6), and mottle, Dark yellowish orange (10YR 6/6) of alluvium oxide, hard-pan laterite shows reducing stage, more sesqui-oxide.

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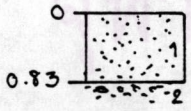
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 28/5/94
Pitting no. BP 35 Location east of Huai Pu Pra.
Grid ref. 529906 Map sheet 4837 I
Total depth 0.83 m. Pitting size 1 x 1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Very pale orange (10YR 8/2), fluvial sediments.
2. Hard-pan laterite, ferricrete more thick than 2 m.

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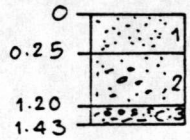
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 28/5/94
Pitting no. BP36 Location north of Huai Pa Pra.
Grid ref. 4884935 Map sheet 4837 I
Total depth 1.43 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong Remark

Meter Sketch



Description

1. Top soil, silty clay, Greyish orange (10YR 7/4), root plants.
2. B-horizon, silty clay, Light brown (5YR 5/6), root plants lateritic granules
3. Laterite layer.

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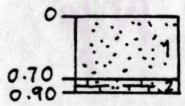
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 29/5/94
Pitting no. BP 37 Location Khao Hin Lap.
Grid ref. 4885721 Map sheet 4837 II
Total depth 0.90 m. Pitting size 1 x 1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Moderate brown (5YR 5/6), root plants, residual deposit of limestone, terra rosa.
2. Bedrock, secondary limestone (Travertine).

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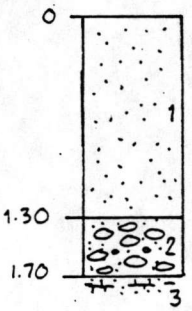
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 28/5/94
Pitting no. BP 38 Location Khao Hin Lap.
Grid ref. 4777215 Map sheet 4837 II
Total depth 1.70 m. Pitting size 1 × 1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, sandy silt, Pale yellowish brown (10YR 6/2), small gravels of limestone, and root plant.
2. Gravel bed, Very pale orange (10YR 8/2), gravels are quartzite and limestone, average size 20 cm about 20 % low sphericity, subangular to subrounded roundness, calcium carbonate cements.
3. Bedrock of secondary limestone and some clasts of limestone and quartzite.

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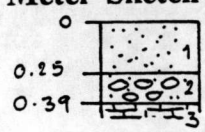
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 30/5/94
Pitting no. BP 39 Location Khao Hin Lap.
Grid ref. 47557155 Map sheet 4837 II
Total depth 0.56 m. Pitting size 1 × 1 m^2
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty clay, Pale brown (5YR 5/2), root plants
2. Gravel layer, Moderate brown (5YR 4/4) with some granules of limestone and secondary limestone with average size 10 cm, gravels are quartzite, quartz, low sphericity, subangular to subrounded roundness.
3. Bedrock of secondary limestone.

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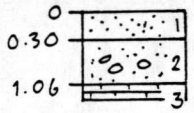
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 30/5/94
Pitting no. BP 40 Location Khao Hin Lap.
Grid ref. 472708 Map sheet 4837 II
Total depth 1.06 m. Pitting size 1 x 1 m^2.
Recorder Mr. Montri Choowong. Remark

Meter Sketch



Description

1. Top soil, silty sand, Dusky yellowish brown (10YR 2/2), root plants.
2. B-horizons, silty clay, Grayish brown (5YR 3/2), root plants, looseblock of limestone average size 10 cm.
3. Bedrock of limestone.

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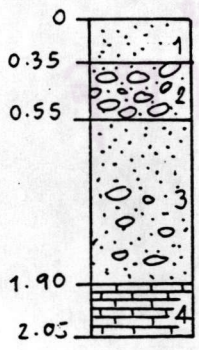
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 2/6/94
Pitting no. BP 41 Location Khao Hin Lap.
Grid ref. 4980 6970 Map sheet 4837 II
Total depth 2.05 m. Pitting size 1 x 1 m^2.
Recorder Mr. Pravat Tungpong. Remark

Meter Sketch



Description

1. Top soil, silty sand, Greyish brown (5YR 3/4), iron concretion.
2. Krasa layer, Dark yellowish brown (10YR 4/2), sub-angular roundness of quartzite, chert with average size of 15 cm, gravel is about 20 %
3. Clay layer, Dark yellowish brown (10YR 6/2), interbedded with firm clay layer, Dary yellowish brown (10YR 6/2) with gravels of quartzite, chert about 20 %, some occurrence of secondary limestone.
4. Bedrock of limestone.

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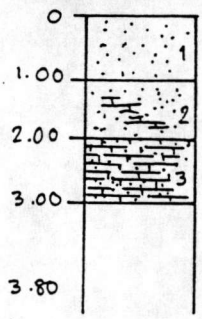
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 4/6/94
Pitting no. BP42 Location Khao Hin Lap.
Grid ref. 49407010 Map sheet 4837 II
Total depth 3.83 m. Pitting size 1 x 1 m^2.
Recorder Mr. Pravat Tungpong. Remark

Meter Sketch



Description

1. Top soil, clayey silt, Dark yellowish brown (10YR 4/2), with some small gravels size 3-10 cm about 20 %.
2. Clay layer, Dark yellowish brown (10 YR 4/2), mixed with of secondary carbonate, Pale yellowish brown (10YR 6/2), gravel of secondary limestone 1-7 cm with 5 %.
3. Secondary limestone, Pale yellowish brown (10YR 6/2), with some gravel of quarzite.

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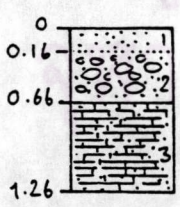
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 5/6/94
Pitting no. BP43 Location Ban Hin Lap.
Grid ref. 50307125 Map sheet 4837 II
Total depth 1.26 m. Pitting size 1 x 1 m^2.
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, sandy silt, Dark yellowish brown (10YR 4/2), moderately sorted, root plants
2. Gravel and sandy silts, Moderate brown (5YR 4/4), gravels are quartzite, quartz, limestone, chert about 60 %, and matrix of lateritic gravel, calcareous cement, spinel occurrence.
3. Secondary limestone, Grayish brown (5YR 3/2) and gravel of limestone, chert, quartzite.

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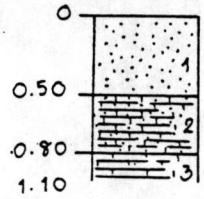
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 6/6/94
Pitting no. BP44 Location Ban Hin Lap.
Grid ref. 50557160 Map sheet 4837 II
Total depth 1.10 m. Pitting size 1×1 m^2
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soils, Dusky yellowish brown (10YR 2/2), sandy clay, well sorted, rock fragmentsof limestone,chert, root plants.
2. Secondary limestone, Greysih brown (5YR 3/2), gravels are quartzite, limestone, chert with average size of 3-5 cm about 40 % , spinel, sapphire.
3. Secondary limestone, marl, Pale yellowish brown (10YR 6/2).

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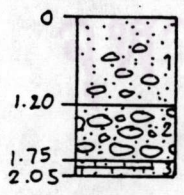
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 7/6/94
Pitting no. BP46 Location Ban Tung Na Nang Rok.
Grid ref. 45656660 Map sheet 4837 I
Total depth 2.05 m. Pitting size 1×1 m^2
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, silty sand, Olive black (5Y 2/1), root plants, rock fragments of limestone, chert.
2. Gravel layer, Olive gray (5Y 4/1), calcareous cement, gravels are quartzite, quartz, chert about 60 % , lateritic gravel about 40 %, spinel, sapphire.
3. Secondary limestone, Greyish brown (5YR 3/2) with some gravel of limestone.

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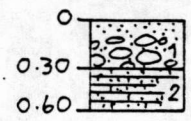
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 8/6/94
Pitting no. BP 47 Location Ban Tung Na Nang Rok
Grid ref. 45306665 Map sheet 4837 II
Total depth 0.60 m. Pitting size 1 x 1 m^2
Recorder Miss. Sunanta Hongwiset Remark terrace landform.

Meter Sketch



Description

1. Top soil, sandy silt, Brownish black (5YR 2/1), with some fragments of quartz, quartzite, chert with average size 2-4 cm about 60 % , lateritic gravel with calcareous cements, spinel.
2. Secondary limestone, Grayish brown (5YR 3/2) with gravel of limestone.

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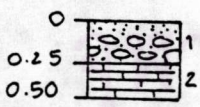
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 9/6/94
Pitting no. BP 48 Location Ban Tung Na Nang Rok.
Grid ref. 44956555 Map sheet 4837 II
Total depth 0.50 m. Pitting size 1 x 1 m^2
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Gravel layers with sandy silt, Olive black (5GY 2/1), subrounded, low sphericity in gravel of quartzite, quartz, chert, lateritic gravel with calcareous cement, spinel
2. Secondary limestone, Grayish brown (5YR 3/2), highly weathered, gravels are chert, quartzite, quartz and limestone.

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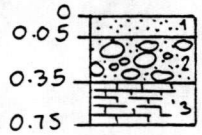
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 10/6/94
Pitting no. BP49 Location Ban Tung Na Nang Rok.
Grid ref. 4495650 Map sheet 4837 II
Total depth 0.75 m. Pitting size 1 x 1 m^2.
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, sandy sily, Olive gray (5Y 4/1), rock fragments of quartz, quartzite and chert.
2. Gravel and sand matrix, Olive grey (5Y 4/1), gravels are quartzite, quartz, chert, and limestone, lateritic gravel, spinel.
3. Secondary limestone, Light olive gray (5Y 6/1), highly weathered, some gravel of limestone.

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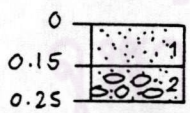
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 11/6/94
Pitting no. BP50 Location near Lam Ta Phoen.
Grid ref. 43456400 Map sheet 4837 II
Total depth 0.25 m. Pitting size 1 x 1 m^2.
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, Olive black (5GY 2/1), root plants
2. Gravel mixed with fine sand, Olive black (5GY 2/1), gravels are chert, quartzite, quartz, high sphericity about 60 %, lateritic gravel with calcareous cements, spinel, sapphire.

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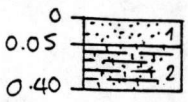
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 12/6/94
Pitting no. BP51 Location west of Lam Ta Phoen.
Grid ref. 4360 6475 Map sheet 4837 II
Total depth 0.40 m. Pitting size 1 x 1 m^2.
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, sandy silt, Olive black (5GY 2/1).
2. Secondary limestone with clay, Moderate yellowish brown (10YR 5/4), gravels are quartz, quartzite,chert and limestone, spinel.

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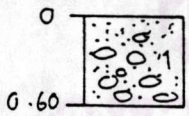
Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 13/6/94
Pitting no. BP52 Location Ban Lum Makok.
Grid ref. 4435 6565 Map sheet 4837 II
Total depth 0.60 m. Pitting size 1 x 1 m^2
Recorder Miss. Sunanta Hongwiset Remark

Meter Sketch



Description

1. Top soil, sandy silt, Dusky brown (5YR 2/2), root plant, some gravel of quartz, quartzite, chert and secondary limestone, spinel.

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Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 1/7/94
Banka drill no. BK5 Location Ban Talad Kway
Grid ref. 533906 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	4.57	Silty clay with fine sand, Dark yellowish brown (10YR 4/2), and Pale Brown (5YR 5/2).	38	8.5	
4.57	10.67	Coarse sand with gravels, Greenish orange (10YR 7/4), Light brown (5YR 6/4), gravel of quartzite,chert.	48.5	27	21.5
10.67	19.51	Gravel bed, Light brown (5YR 6/4) and Grayish orange (10YR 7/4), gravels are quartzite, chert	85	43.5	41.5
19.51	21.04	Fine sand with clay, Dark yellowish orange (10YR 6/2), some gravel in the bottom.	18	17	1
21.04	23.02	Secondary limestone, Grayish orange (10YR 7/4) and Very pale brown (10YR 8/2)			

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Area Amphoe Bo Phloi, Changwat Kanchanaburi Date
Banka drill no. BK 6 Location Ban Nong Wa
Grid ref. 518936 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	3.05	Silty clay, Dusky brown (5YR 2/2) with fine sand, Pale yellowish brown (10YR 6/2).	30	1.5	
3.05	5.80	Medium to coarse sand, Pale brown (5YR 5/2) with clay.	21	1.0	
5.80	7.32	Coarse sand and clay with some gravels of quartzite in the bottom Dark yellowish orange (10YR 6/6)	17	7.5	9.5
7.32	14.33	Gravel bed, Grayish orange (10YR 7/4), gravels are quartzite, quartz, chert with coarse sand matrix.	100.5	65.5	35
14.53	17.10	Secondary limestone and clay with fine sand, Dark yellowish orange (10YR 6/6) and Pale yellowish orange (10YR 8/6).			

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Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 27/5/94
Banka drill no. BK 8 Location Ban Nong Tein
Grid ref. 516827 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	4.57	Silty clay with fine sand, Pale brown (5YR 5/2), and Pale yellowish brown (10YR 6/2) with some lateritic soil.	58	5.75	
4.57	6.70	Silty sand with clay, Grayish orange (10YR 7/4).	22	5.0	
6.70	11.28	Secondary limestone with clay, Grayish orange (10YR 7/4) with fine sand.	19.5	15.5	
11.28	21.34	Gravel bed, Grayish orange (10YR 7/4) and Dark yellowish orange (10YR 6/6), gravels are quartzite, chert, quartz with some coarse sand matrix, spinels.	112.5	61.0	51.5
21.34	23.78	Clayey sand , Grayish orange (10YR 6/6).	15	3.0	
23.78	26.52	Gravel bed, Grayish orange (10YR 7/4) and Dark yellowish orange (10YR 6/6), gravels are quartzite, chert with coarse sand matrix.	13.5	12.5	1.0

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Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 9/6/94
Banka drill no. BK 9 Location Ban Nong Tein
Grid ref. 512828 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	3.96	Clayey silt with fine sand, Moderate brown (5YR 3/4), some secondary limestone and rock fragments.	38.50	20	
3.96	10.06	Clayey silt with secondary limestone, Grayish orange (10 YR 7/4) and Dark yellowish orange (10 YR 6/6).	59.0	48.0	11.0
10.06	14.63	Top gravel bed, Dark yellowish orange (10YR 6/6), gravels are quartzite, chert, quartz, with sand matrix.	29.5	17.50	12.0
14.63	16.15	Gravel bed, Grayish orange (10YR 7/4), gravels are quartzite quartz, chert.	24.50	16.50	8.00
16.15	23.30	Clayey silt with fine sand and secondary limestone in the bottom Dark yellowish orange (10YR 6/6) and Grayish orange (10YR 7/4).	70.5	26.50	

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Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 17/6/94
Banka drill no. BK 10 Location Ban Nong Tein
Grid ref. 4995 8485 Map sheet 4937 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	3.96	Clayey silt with fine sand in the bottom, Dark yellowish brown (10YR 4/2) and Moderate yelowish brown (10YR 5/4), some lateritic soil.	30.5	10.00	
3.96	9.14	Top gravel bed, Moderate yellowish brown (10YR 5/4) and Dark yellowish orange (10YR 6/6), gravels are quartzite, quartz, chert.	45.00	24.50	20.50
9.14	13.41	Clayey silt with fine sand, Greyish orange (10YR 7/4).	38.50	7.25	
13.41	17.98	Secondary limestone with some clay and rock fragments of limestone, chert, quartzite, Grayish orange (10 YR 7/4).	49.00	17.50	

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Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 25/6/94
Banka drill no. BK 11 Location Wat Nong Po
Grid ref. 505 800 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	2.43	Clayey silt and fine sand, Moderate brown (5YR 3/4) and Moderate yellowish brown (10 YR 5/4).	21.0	5.00	
2.43	6.40	Clayey silt with secondary limestone, Grayish orange (10 YR 7/4) and Moderate yellowish brown (10YR 5/4), some weathered limestone.	21.50	4.75	

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Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 1/7/94
Banka drill no. BK12 Location Ban Nong Kratum.
Grid ref. 518 757 Map sheet 4837 I
Recorder Mr. T. Japakraset. Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	1.52	Clayey silt, Dark yellowish brown (10YR 4/2).	16.00	5.50	
1.52	9.75	Secondary limestone with clayey silt and fine sand, Pale yellowish brown (10YR 6/2) and Grayish orange (10YR 7/4).	51.50	38.00	
9.75	14.33	Top gravel bed with sand matrix Dark yellowish orange (10YR 6/6) and Moderate yellowish brown (10YR 5/4).	64.50	41.50	23.00
14.33	15.85	Clayey sand, Pale yellowish brown (10YR 6/2).	3.50	3.00	
15.85	24.39	Coarse sand and matrix, Pale yellowish brown (10YR 6/2), gravels are quartzite, quartz, chert, spinels	42.50	39.75	2.75
24.39	24.54	Clayey sand, Dark yellowish orange (10YR 6/6).	4.00	2.00	

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Area Amphoe Bo Phloi , Changwat Kanchanaburi Date 27/6/94
Banka drill no. BK13 Location Ban Nong Kratum
Grid ref. 533737 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	3.04	Clayey silt, Dusky brown (5YR 2/2) with some lateritic concretion.	24.00	3.75	
3.04	6.10	Top gravel bed with coarse sand matrix, Yellowish brown (10YR 5/4), gravels are quartzite, quartz.	25.00	22.50	2.50
6.10	18.90	Gravel bed, Pale yellowish brown (10YR 6/2), sand matrix, gravels are quartzite, quartz, chert, Dark yellowish orange (10YR 6/6).	135.50	101.5	34.00
18.90	21.34	Clayey silt and fine sand, Dark yellowish orange (10YR 6/6) and Grayish orange (10YR 7/4).	34.50		

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Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 9/7/94
Banka drill no. BK 14 Location Ban Wang Dong.
Grid ref. 507699 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	1.52	Clayey silt with fine sand, Dusky yellowish brown (10YR 2/2).	13.00	0.50	
1.52	7.01	Clayey silt with fine sand, Dark yellowish brown (10YR 4/2) and Pale yellowish brown (10YR 6/2).	39.00	7.50	
7.01	8.54	Top gravel bed, Pale yellowish brown (10YR 6/2), gravels are quartzite, quartz, chert with sand matrix.	8.00	5.50	2.50
8.54	11.89	Gravel bed, Pale yellowish brown (10YR 6/2), gravels are quartzite, quartz, chert with sand matrix.	39.00	26.50	12.50
11.89	13.41	Sandy clay to fine sand, Yolowish gray (5Y 7/2).	6.00	0.50	
13.41	14.02	Gravel bed, Grayish orange (10YR 7/4) and Dark yellowish orange (10YR 6/6), gravels are quartzire, quartz, chert.	15.00	12.00	3.00
14.02	18.59	Clayey silt to coarse sand, Grayish orange (10YR 7/4) and Moderate yellowish brown (10YR 5/4).	28.50	9.50	
18.59	20.12	Gravel bed, Dark yellowish orange (10YR 6/6), gravels are quartzite, quartz, chert with sand matrix.	28.00	27.00	1.00
20.12	21.79	Clayey silt, Dark yellowish orange (10YR 6/6).	13.00	4.75	

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Area . Amphoe Bo Phloi, Changwat Kanchanaburi Date 13/7/94
Banka drill no. BK 15 Location Ban Thung Masang.
Grid ref. 503678 Map sheet 4837 I
Recorder Mr. T. Japakraset Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	3.05	Clayey silt, Dusky brown (5YR 2/2) and Moderate brown (5YR 3/4), with fine sand.	19.50	0.50	
3.05	6.09	Medium to coarse sand, Dark yellowish brown (10YR 4/2) with clay.	22.00	18.00	
6.09	13.41	Gravel bed, Pale yellowish brown (10YR 6/2), gravels are quartzite, quartz, chert, with sand matrix.	77.00	62.00	15.00
13.41	15.70	Clayey silt with secondary limestone and fine sand, Pale olive (10Y 6/2), and Dusky yellow (5Y 6/4).	22.00	10.00	

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Department of Geology

Area Amphoe Bo Phloi, Changwat Kanchanaburi Date 18/7/94
Banka drill no. BK 17 Location
Grid ref. 530720 Map sheet 4837 I
Recorder Mr. T. Japakraset. Remark

Depth (m) From	To	Description	volume (lits)	sand (lits)	rock (lits)
0	5.94	Secondary limestone with sandy clay, Dark yellowish brown (10YR 4/2) and Very pale orange (10YR 8/2).	34.00	29.50	

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 59/1.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....-.....

.....

Weight of the sample after treatment.....432.6 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	16.9	3.92	3.92
1.651	10	12.8	2.97	6.89
1.000	18	56.8	13.18	20.07
0.500	35	79.4	18.42	38.49
0.355	45	43.3	10.05	48.54
0.250	60	70.1	16.26	64.80
0.125	120	120.1	27.87	92.67
		31.6	7.33	100
Total		431.0	99.63	100

N.B. Sieve Lost.....0.37.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 59/2.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....brownish red colour sand.....

.....

Weight of the sample after treatment.....383.5 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	29.5	7.69	7.69
1.651	10	20.7	5.39	13.08
1.000	18	112.1	29.23	42.31
0.500	35	134.3	35.02	77.33
0.355	45	51.2	13.35	90.68
0.250	60	23.4	6.10	96.78
0.125	120	11.1	2.89	99.67
		2.8	0.73	100
Total		383.5	100	100

N.B. Sieve Lost.....0.00.....%

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Sedimentology Lab.

GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 59/3.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....366.9 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	59.1	16.10	16.10
1.651	10	30.5	8.31	24.41
1.000	18	89.2	24.31	48.72
0.500	35	66.7	18.18	66.9
0.355	45	48.9	13.33	80.23
0.250	60	42.3	11.53	91.76
0.125	120	23.3	6.35	98.11
		4.7	1.28	100
Total		364.7	99.40	100

N.B. Sieve Lost.....0.60.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 59/4.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

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Weight of the sample after treatment.....317 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	85.4	26.94	26.94
1.651	10	44.7	14.10	41.04
1.000	18	106.6	33.63	74.67
0.500	35	45.4	14.35	89.02
0.355	45	13.1	4.13	93.15
0.250	60	8.6	2.71	95.86
0.125	120	7.6	2.39	98.25
		5.7	1.79	100
Total		316.9	99.96	100

N.B. Sieve Lost.....0.04.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 22/1.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....206 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
1.651	10	42.2	19.23	19.23
1.000	18	15.1	7.33	26.56
0.500	35	15.7	7.62	34.18
0.355	45	7.6	3.69	37.87
0.250	60	10.7	5.19	43.06
0.125	120	64.6	31.36	74.42
0.063	230	37.2	18.06	92.48
		15.5	7.52	100
Total		206	100	100

N.B. Sieve Lost.....0.00.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 22/2.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....227.2 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	1.60	0.70	0.70
1.651	10	2.20	0.88	1.58
1.000	18	25.40	11.16	12.74
0.500	35	133.30	58.54	71.28
0.355	45	49.60	21.78	93.06
0.250	60	12.20	5.36	98.42
0.125	120	2.50	1.09	99.51
		0.80	0.35	100
Total		227.2	100	100

N.B. Sieve Lost.....0.00.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 21/1.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....152.7 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
1.651	10	3.5	2.29	2.29
1.000	18	14.3	9.36	11.65
0.500	35	20.7	13.56	25.21
0.355	45	14.5	9.49	34.70
0.250	60	28.4	18.59	53.28
0.125	120	47.3	30.97	84.25
0.063	230	18.0	11.78	96.03
		8.4	5.50	100
Total		152.7	100	100

N.B. Sieve Lost.....0.00.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 21/2.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....325.9 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	5.5	1.69	1.69
1.651	10	3.0	0.92	2.61
1.000	18	34.8	10.68	13.29
0.5000	35	142.6	43.76	57.05
0.355	45	84.3	25.87	82.92
0.250	60	30.7	9.42	92.34
0.125	120	19.9	6.11	98.45
		4.0	1.23	100
Total		324.3	99.5	100

N.B. Sieve Lost....0.50.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 21/3.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....307.4 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	48.7	15.84	15.84
1.651	10	34.3	11.16	27.0
1.000	18	164.3	53.45	80.45
0.500	35	47.2	15.35	95.80
0.355	45	5.5	1.79	97.59
0.250	60	2.4	0.78	98.37
0.125	120	2.6	0.84	99.21
		1.1	0.36	100
Total		306.6	99.74	100

N.B. Sieve Lost.....0.26.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 24.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....216.5 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	25.2	11.64	11.64
1.651	10	13.4	6.19	17.83
1.000	18	53.0	24.48	42.31
0.500	35	88.6	40.92	83.23
0.355	45	21.0	9.69	92.92
0.250	60	5.6	2.58	95.5
0.125	120	4.2	1.94	97.44
		3.3	1.52	100
Total		215.9	99.72	100

N.B. Sieve Lost.....0.28.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 60/1.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....230.8 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	11.70	5.10	5.10
1.651	10	12.90	5.60	10.70
1.000	18	72.80	31.54	42.24
0.841	20	20.00	8.65	50.89
0.500	34	60.50	26.20	77.09
0.355	45	24.10	10.44	87.53
0.250	60	16.20	7.02	94.55
0.125	120	10.00	4.03	98.88
		1.70	0.74	100
Total		229.90	99.62	100

N.B. Sieve Lost.....0.38.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 60/2 Top.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....138.1 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
1.651	10	0.8	0.58	0.58
1.000	18	3.5	2.55	3.13
0.500	35	5.5	4.00	7.13
0.355	45	12.0	8.74	15.87
0.250	60	25.8	18.79	34.66
0.125	120	62.7	45.67	80.33
0.063	230	21.4	15.59	95.92
		5.6	4.08	100
Total		137.3	99.42	100

N.B. Sieve Lost.....0.58.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 60/2.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....246.6 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	110	44.6	44.6
1.651	10	20.1	8.2	52.8
1.000	18	57.2	23.2	76.0
0.841	20	10.2	4.1	80.1
0.500	34	26.4	10.7	90.8
0.355	45	11.4	4.6	95.4
0.250	60	5.9	2.4	97.8
0.125	120	4.2	1.7	99.5
		1.5	0.6	100
Total		246.9	100.1	100

N.B. Sieve Over .....0.1.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 60/3.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....248.3 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	86.3	34.76	34.76
1.651	10	32.1	12.93	47.69
1.000	18	83.9	34.99	82.68
0.841	20	9.2	3.71	85.85
0.500	34	15.9	6.40	92.25
0.355	45	5.1	2.10	94.35
0.250	60	3.9	1.57	95.92
0.125	120	5.0	2.01	97.93
		2.8	1.13	100
Total		247.2	99.60	100

N.B. Sieve Lost.....0.40.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 60/4.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....183.6 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	2.6	1.42	1.42
1.651	10	1.3	0.71	2.13
1.000	18	4.3	2.34	4.47
0.841	20	1.9	1.03	5.50
0.500	34	15.4	8.38	13.88
0.355	45	62.7	34.20	48.08
0.250	60	59.2	32.24	80.32
0.125	120	31.2	16.99	97.31
		3.6	1.96	100
Total		182.2	99.27	100

N.B. Sieve Lost.....0.76.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 23 B.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....455.30 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	91	19.98	19.98
1.651	10	12	2.64	22.62
1.000	18	62.5	13.73	36.35
0.500	35	183	40.20	76.55
0.250	60	94	20.65	97.20
0.125	120	7.3	1.60	98.80
0.063	230	0.8	0.18	98.98
		0.9	0.20	100
Total		454.00	99.18	100

N.B. Sieve Lost.....0.82.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 23 C.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....315.0 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	42.15	13.38	13.38
1.651	10	10	3.18	16.56
1.000	18	72.2	17.84	34.38
0.500	35	155.2	49.27	83.65
0.250	60	48.8	15.50	99.15
0.125	120	2.0	0.64	99.76
0.063	230	0.3	0.09	99.85
		0.2	0.06	100
Total		315	99.96	100

N.B. Sieve Lost.....0.04.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 23 D.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....215 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
2.000	9	43	20	20
1.651	10	2.8	1.30	21.3
1.000	18	21.1	9.81	31.11
0.841	20	12.3	5.72	36.83
0.500	35	80	37.21	74.04
0.420	40	5.5	2.56	76.60
0.355	45	36.6	17.02	93.62
0.250	60	10.6	4.93	98.55
0.125	120	2.8	1.30	99.85
		0.2	0.09	100
Total		215	99.94	100

N.B. Sieve Lost.....0.06.....%

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GRAIN SIZE ANALYSIS BY SIEVING

Sample no.....BP 23 E.....Locality.....Amphoe Bo Phloi, Kanchanaburi.....

Date.....Oct, 1994.....Remarks.....

.....

Weight of the sample after treatment.....230.5 gm.....Analyst (s)....M, Choowong....

Sieve Opening		Wt. Retained (gm)	Wt. %	Cumulative Wt. %
mm.	(ASTM) Mesh no.			
1.651	10	115.3	50.02	50.02
1.000	18	68.1	29.54	79.56
0.841	20	11.8	5.12	84.68
0.500	35	27.2	11.80	96.48
0.420	40	3.3	1.43	97.91
0.355	45	1.2	0.52	98.43
0.250	60	1.0	0.43	98.86
0.125	120	0.4	0.17	99.03
		0.8	0.34	100
Total		229.1	99.37	100

N.B. Sieve Lost.....0.63.....%

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : 60/5 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth l.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+l) 1000	Rock Type
1	90	45	60	5	111.1	166.6	1
2	65	30	45	7	215.4	183.3	1
3	65	40	60	3	92.3	145.0	1
4	60	40	60	7	233.3	150.0	1
5	45	30	40	5	222.2	141.6	1
6	90	22	55	5	111.1	329.5	1
7	40	28	35	4	200.0	133.9	1
8	80	35	75	12	300.0	221.4	1
9	90	35	55	6	133.3	207.1	1
10	85	26	55	4	94.1	269.2	1
11	90	35	50	4	88.8	200.0	1
12	90	16	50	3	66.6	437.5	1
13	45	40	40	2	88.8	106.2	1
14	55	28	30	4	145.5	151.7	1
15	60	24	30	6	200.0	187.5	1
16	55	30	35	2	72.2	150.0	1
17	75	16	30	4	106.6	328.1	1
18	55	12	50	2	72.7	437.5	1
19	50	22	35	4	160.0	193.1	1
20	55	20	40	6	218.2	237.5	1
21	50	28	40	2	80.0	160.7	1
22	55	12	40	5	181.8	229.1	1
23	60	22	55	3	100.0	261.3	1
24	65	32	40	1	30.7	328.1	2
25	75	22	50	7	186.6	284.1	1
26	65	30	45	3	92.3	183.3	2
27	60	20	30	3	100.0	225.0	1
28	80	40	55	8	200.0	168.7	1
29	75	30	50	4	106.0	208.3	1
30	75	20	30	3	80.0	262.5	2
31	45	18	30	5	222.2	208.3	1
32	50	30	40	6	240.0	150.0	1
33	50	30	35	2	80.0	141.6	2
34	55	28	40	3	109.0	169.6	1
35	80	30	60	4	100.0	233.3	1
36	45	20	26	2	88.8	177.5	2
37	55	16	40	4	145.4	296.8	1
38	75	8	50	2	72.7	781.2	1
39	60	20	45	4	133.3	262.5	1
40	55	26	40	3	109.1	182.6	1
41	75	40	50	2	53.3	156.2	1
42	65	20	40	3	92.3	262.5	1
43	45	26	30	3	133.3	144.2	1
44	80	30	60	5	125.0	233.3	3
45	100	30	50	4	80.0	250.0	3
46	75	30	60	7	186.6	225.0	3
47	65	26	35	2	61.5	192.3	2
48	55	10	26	3	109.1	405.0	3
49	30	16	20	3	200.0	156.2	3
50	55	28	30	4	145.5	151.7	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 59/2 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	110	30	80	5	91	317	3
2	110	35	90	7	127	286	3
3	50	30	40	3	120	150	3
4	60	50	55	6	200	115	3
5	55	24	35	3	109	188	3
6	65	30	45	5	154	183	3
7	75	30	55	5	133	217	3
8	45	28	30	4	178	134	3
9	70	35	45	4	114	164	3
10	45	20	40	3	133	213	3
11	45	24	30	4	178	156	3
12	50	20	35	4	160	213	2
13	85	30	60	5	118	242	3
14	55	24	35	4	145	188	3
15	130	35	80	6	92	300	3
16	50	20	35	4	162	213	3
17	80	20	70	5	125	375	3
18	35	12	28	3	171	263	3
19	70	30	50	4	114	200	3
20	50	22	35	4	160	193	3
21	40	26	35	3	150	144	3
22	55	28	40	3	109	169	3
23	45	30	40	5	222	142	3
24	60	24	30	3	100	188	2
25	75	50	65	4	107	140	3
26	55	20	35	4	145	225	3
27	35	24	30	3	171	135	3
28	40	28	30	3	150	125	3
29	50	20	30	3	120	200	3
30	35	16	24	2	114	184	3
31	70	24	45	3	86	240	3
32	45	28	35	4	178	143	3
33	70	12	50	3	86	500	2
34	45	22	30	4	178	170	2
35	45	20	30	4	178	188	2
36	55	20	30	3	109	213	2
37	35	18	24	3	171	164	3
38	50	20	35	3	120	213	3
39	30	10	28	3	200	290	3
40	50	24	35	3	120	177	3
41	40	20	30	2	100	175	3
42	45	12	20	2	89	271	3
43	35	20	26	2	114	153	3
44	45	20	30	3	133	188	3
45	30	14	20	2	133	104	2
46	45	22	28	2	89	166	3
47	45	20	28	3	133	183	2
48	40	20	30	3	150	175	3
49	40	22	35	2	100	170	3
50	35	16	24	3	171	184	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 59/4 Date :

Location : Amphoe Bo Phloi, Changwat Kanchaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	100	40	45	3	60	181	2
2	80	45	60	8	200	155	3
3	80	50	60	5	125	140	3
4	90	45	60	5	111	166	3
5	90	40	45	9	200	169	3
6	70	35	55	6	172	178	3
7	80	30	70	5	125	250	3
8	45	20	35	4	177	200	3
9	80	30	55	5	125	225	3
10	60	20	30	3	100	225	2
11	85	30	75	7	165	261	3
12	70	28	30	3	86	179	2
13	55	30	35	4	145	150	3
14	80	40	50	3	75	163	3
15	55	20	30	4	145	213	3
16	65	30	45	4	123	183	3
17	75	40	60	5	133	169	3
18	55	20	40	6	218	263	3
19	65	30	45	4	123	183	3
20	45	20	30	3	133	188	2
21	90	40	55	4	88	181	3
22	55	20	40	5	181	238	3
23	65	40	45	4	123	138	3
24	60	40	50	5	166	138	3
25	35	24	28	3	171	131	3
26	55	30	45	4	145	166	3
27	110	50	85	10	90	195	3
28	70	30	40	3	85	183	3
29	70	20	45	5	143	288	2
30	50	10	30	3	120	400	2
31	65	30	40	4	123	175	3
32	60	30	40	4	133	167	3
33	60	20	30	3	50	225	2
34	60	30	50	5	166	183	3
35	60	20	35	4	133	238	2
36	50	30	35	3	120	142	3
37	55	10	35	4	145	450	3
38	90	45	50	5	111	156	3
39	50	30	40	3	120	150	2
40	50	30	45	4	160	158	3
41	50	28	40	4	160	161	3
42	65	30	45	5	154	181	3
43	50	24	40	3	120	188	3
44	65	40	60	7	215	156	3
45	60	30	40	4	133	167	3
46	50	20	40	4	160	225	3
47	50	10	30	3	120	400	2
48	40	38	30	4	200	125	3
49	60	30	50	4	133	183	3
50	55	20	30	3	109	213	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 59/3 Date :

Location : Amphoe Bo Phloi, Changwat Kanchaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	60	30	50	4	133.3	183.3	3
2	75	45	50	4	106.6	138.8	3
3	65	40	50	4	123.1	143.7	3
4	50	24	40	4	160.0	187.5	3
5	110	20	45	6	109.1	387.5	3
6	75	50	60	3	80.0	135.0	3
7	60	30	50	5	166.6	183.3	3
8	50	20	40	3	120.0	225.0	3
9	60	30	40	4	133.3	166.2	3
10	80	24	60	5	125.0	291.6	3
11	55	25	35	2	72.7	180.0	3
12	55	30	35	3	109.1	150.0	3
13	70	30	45	4	114.3	191.7	3
14	80	30	50	4	100.0	216.7	3
15	50	26	45	3	120.0	182.7	3
16	50	14	30	4	160.0	285.7	3
17	45	16	30	5	222.2	234.4	3
18	65	20	45	3	92.3	275.0	3
19	55	45	35	5	181.8	100.0	3
20	70	20	50	4	114.3	325.0	3
21	55	26	45	5	181.8	115.4	2
22	70	35	45	4	114.3	164.3	3
23	60	20	40	3	100.0	250.0	3
24	55	30	35	4	145.5	150.0	3
25	70	50	55	4	114.3	125.0	3
26	55	35	40	4	145.5	135.7	3
27	100	30	65	6	120.0	275.0	3
28	75	40	60	7	186.6	168.7	3
29	85	30	55	3	70.1	233.3	3
30	90	20	70	3	66.7	400.0	3
31	55	20	24	2	72.7	197.5	2
32	70	20	55	4	114.3	312.5	3
33	55	24	40	5	181.8	197.9	3
34	45	28	35	4	177.7	142.9	3
35	50	20	30	2	80.0	200.0	3
36	55	18	40	3	109.1	296.8	3
37	55	20	35	4	145.5	225.0	3
38	40	20	35	4	200.0	187.5	3
39	35	20	30	4	228.0	187.5	3
40	50	30	35	5	200.0	141.6	3
41	35	20	30	3	171.4	162.5	3
42	75	20	50	3	80.0	312.5	3
43	50	40	40	3	120.0	112.5	3
44	55	30	40	4	145.5	158.3	3
45	40	20	35	5	250.0	187.5	3
46	55	20	30	4	145.5	212.5	3
47	50	26	35	3	120.0	163.5	3
48	70	20	50	5	142.8	300.0	3
49	55	28	40	3	109.1	169.6	2
50	40	12	20	3	150.0	250.0	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 59/1 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	55	30	40	4	145.5	158.3	3
2	75	30	55	6	160.0	216.6	3
3	70	20	30	3	85.7	250.0	3
4	85	50	85	6	141.2	170.0	3
5	100	35	70	10	200.0	242.8	3
6	115	40	50	4	69.6	206.2	3
7	45	20	30	5	222.2	187.5	2
8	70	10	40	3	85.7	550.0	3
9	95	35	70	9	189.5	235.7	3
10	50	28	30	4	160.0	142.8	3
11	60	26	40	3	100.0	192.3	3
12	35	18	26	4	228.6	169.4	3
13	85	24	60	3	70.5	302.1	3
14	65	16	40	5	153.8	328.1	3
15	55	18	26	2	72.7	225.0	2
16	45	14	30	2	88.8	267.8	2
17	60	35	45	4	133.3	150.0	3
18	40	8	35	5	250.0	468.7	2
19	50	30	40	2	80.0	133.3	3
20	85	45	60	7	164.7	161.1	3
21	80	50	55	6	150.0	135.0	3
22	45	20	35	3	133.3	200.0	3
23	45	20	35	2	88.8	200.0	3
24	60	30	40	5	166.6	166.6	3
25	50	16	30	2	80.0	250.0	3
26	55	14	35	7	254.5	321.4	3
27	30	20	16	2	133.3	115.0	3
28	45	20	30	2	88.0	187.5	3
29	50	20	35	4	160.0	212.5	3
30	60	24	35	2	66.6	197.9	3
31	45	18	35	2	88.8	222.2	3
32	50	26	30	3	120.0	153.8	3
33	35	20	24	4	228.0	147.5	3
34	55	20	40	3	109.1	237.5	3
35	70	45	55	5	142.8	138.8	3
36	35	10	24	3	171.4	295.0	2
37	35	10	20	3	171.4	275.0	2
38	35	18	26	4	228.6	169.4	3
39	55	14	35	4	145.5	321.4	3
40	35	14	28	3	171.4	225.0	3
41	35	16	24	3	171.4	184.3	3
42	50	28	35	3	120.0	151.8	3
43	55	20	40	4	145.5	237.5	3
44	75	40	55	4	106.6	162.5	2
45	40	20	25	2	100.0	162.5	3
46	35	18	30	3	171.4	203.1	3
47	50	20	35	3	120.0	212.5	3
48	35	14	20	3	171.4	196.4	3
49	30	14	30	4	266.6	214.3	3
50	26	18	20	3	230.1	143.7	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : 63/1 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	85	50	75	10	235.2	160.0	3
2	65	30	50	9	276.9	191.6	3
3	55	30	40	6	218.1	158.3	3
4	55	35	45	10	363.6	142.8	3
5	75	30	65	7	186.6	233.3	3
6	60	30	55	5	166.6	191.6	3
7	75	45	60	7	186.6	150.0	3
8	55	26	35	4	145.4	173.1	3
9	75	40	50	7	186.6	156.2	3
10	65	24	50	5	153.8	239.6	2
11	100	50	90	15	300.0	190.0	3
12	55	40	40	5	181.8	118.7	3
13	45	30	40	7	311.1	141.6	3
14	55	24	35	4	145.5	187.5	3
15	80	40	60	15	375.0	175.0	3
16	45	18	30	5	222.2	208.3	3
17	45	28	40	7	311.1	151.8	3
18	50	20	30	4	160.0	200.0	3
19	60	35	40	5	166.6	142.8	3
20	65	20	60	5	153.8	312.5	3
21	50	18	30	5	200.0	222.2	3
22	40	20	35	5	250.0	187.5	3
23	45	28	30	5	222.2	133.9	2
24	55	35	35	5	181.8	128.6	3
25	55	30	45	5	181.8	166.6	3
26	80	40	45	5	125.0	156.2	3
27	55	28	35	4	145.5	160.7	3
28	55	30	40	3	109.0	135.7	2
29	60	28	40	4	133.3	178.6	2
30	70	40	60	7	200.0	162.5	3
31	40	20	28	4	200.0	170.0	3
32	70	24	60	9	257.1	270.8	2
33	55	30	40	5	181.8	158.3	3
34	60	28	35	7	233.3	169.6	3
35	55	14	35	5	181.8	321.4	3
36	50	24	35	4	160.0	177.1	3
37	50	20	30	5	200.0	200.0	3
38	70	20	45	5	142.8	287.5	2
39	55	30	40	5	181.8	158.3	3
40	45	30	35	4	177.7	133.3	3
41	40	22	30	6	300.0	159.1	3
42	50	20	30	3	120.0	200.0	3
43	60	20	40	8	266.6	125.0	3
44	40	18	20	4	200.0	166.6	3
45	40	30	35	4	200.0	125.0	2
46	80	30	50	8	200.0	216.6	3
47	45	26	35	5	222.2	200.0	3
48	45	28	35	5	222.2	142.8	3
49	50	20	40	6	240.0	225.0	3
50	60	35	40	5	166.6	285.7	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 28 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	80	45	65	5	125	161	3
2	85	55	60	5	118	132	3
3	100	65	90	7	140	146	3
4	95	40	75	5	105	213	3
5	100	24	75	4	80	365	3
6	105	50	85	7	133	190	3
7	70	50	55	5	143	125	3
8	95	55	65	5	105	146	3
9	105	65	100	9	171	158	3
10	75	24	40	4	106	240	
11	95	60	80	5	105	146	3
12	65	30	45	4	123	200	3
13	95	60	75	5	105	142	3
14	85	65	70	6	141	119	3
15	95	70	90	6	126	132	3
16	75	35	60	6	160	193	3
17	80	45	65	10	250	161	3
18	70	35	50	4	114	171	3
19	90	30	65	3	66	258	3
20	60	35	45	5	166	150	3
21	90	35	65	5	111	221	3
22	75	40	55	5	133	163	3
23	75	50	55	5	133	130	3
24	70	35	60	4	114	186	3
25	75	50	50	4	107	125	3
26	130	75	100	10	154	153	3
27	100	60	70	6	120	142	3
28	65	20	40	4	123	263	3
29	60	30	55	3	100	192	3
30	60	30	45	3	100	192	3
31	80	50	65	5	125	145	3
32	80	24	55	4	100	282	3
33	85	40	60	5	118	181	3
34	85	35	55	3	71	200	3
35	65	40	45	3	92	138	3
36	55	40	50	3	109	131	3
37	85	50	65	5	118	150	3
38	100	60	65	5	100	138	3
39	55	24	40	4	145	198	3
40	50	24	35	3	120	177	3
41	90	45	70	3	67	178	3
42	60	30	55	4	133	192	3
43	70	30	55	3	86	208	3
44	80	35	60	5	125	200	3
45	100	55	70	6	120	155	3
46	100	40	60	4	80	200	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 62 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	95	40	70	10	211	206	3
2	85	40	60	4	94	194	3
3	70	35	45	4	114	164	3
4	80	20	55	6	150	313	3
5	95	20	75	4	84	425	3
6	70	30	55	5	143	208	3
7	70	30	50	5	143	200	3
8	50	30	45	4	160	158	3
9	60	24	40	5	167	208	3
10	70	35	50	3	86	171	3
11	75	35	60	4	107	193	3
12	70	20	50	4	114	300	3
13	65	35	50	3	92	164	3
14	80	40	60	7	175	175	3
15	95	45	60	4	84	172	3
16	60	30	50	3	100	183	3
17	70	35	40	4	114	157	3
18	80	45	70	4	100	167	2
19	75	35	60	3	80	193	3
20	70	40	60	4	142	163	3
21	65	20	35	4	123	250	2
22	90	35	60	5	111	214	3
23	85	35	45	4	94	186	3
24	55	20	35	5	182	225	3
25	60	20	30	3	100	225	3
26	65	45	55	5	154	133	3
27	95	24	60	4	84	323	3
28	70	45	55	4	114	139	3
29	95	40	70	4	84	206	3
30	70	24	30	4	114	208	3
31	80	35	60	5	125	200	3
32	65	40	50	5	154	144	3
33	50	24	35	4	160	177	3
34	55	26	40	4	145	297	3
35	90	40	65	6	133	194	3
36	70	30	60	4	114	217	3
37	65	24	45	4	123	229	3
38	65	30	50	4	125	192	3
39	70	20	60	5	143	325	3
40	100	30	65	4	80	275	3
41	75	35	50	3	80	179	3
42	75	35	55	4	107	186	3
43	45	30	40	4	89	142	3
44	75	35	60	4	107	193	2
45	80	20	60	5	125	350	2
46	65	40	60	5	154	156	3
47	50	24	35	5	200	177	3
48	75	40	50	5	133	156	3
49	45	30	35	5	222	133	3
50	40	26	30	5	250	135	3

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 63/2 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	130	50	80	10	154	210	3
2	100	45	100	15	300	222	3
3	85	24	65	7	165	313	2
4	45	12	40	10	444	396	3
5	100	40	50	10	200	188	3
6	70	45	55	7	200	139	3
7	60	30	45	5	167	175	3
8	95	24	60	8	168	323	3
9	60	28	45	5	167	188	3
10	60	40	50	5	167	138	3
11	50	28	40	5	200	161	3
12	65	30	40	5	154	175	3
13	100	40	50	5	100	186	3
14	65	18	50	5	154	319	2
15	40	35	35	5	250	107	3
16	70	24	55	5	143	260	3
17	50	30	45	5	200	158	2
18	45	20	30	3	133	188	2
19	50	26	40	3	120	173	2
20	75	26	35	4	107	212	2
21	50	30	35	4	160	142	3
22	70	30	40	5	143	183	3
23	70	30	35	5	143	175	3
24	60	20	40	7	233	250	3
25	55	20	35	4	145	225	3
26	85	30	55	5	118	233	3
27	50	24	40	4	160	188	3
28	60	20	35	3	100	238	2
29	35	10	30	6	343	325	3
30	80	35	70	6	150	214	3
31	45	24	35	4	178	167	2
32	95	40	55	8	168	188	3
33	90	30	50	7	156	233	2
34	65	30	40	5	154	175	3
35	60	24	45	3	100	3219	3
36	60	22	40	7	233	227	3
37	85	30	60	5	118	242	2
38	55	22	40	6	218	216	3
39	60	26	40	6	200	193	3
40	80	40	60	7	165	175	3
41	70	30	55	10	286	208	3
42	70	30	45	5	143	192	2
43	55	10	35	6	218	450	2
44	50	22	30	3	120	182	3
45	55	20	35	3	109	213	2
46	65	35	50	5	154	164	3
47	85	30	50	6	141	225	2
48	50	22	40	6	240	205	3
49	55	35	40	5	182	136	3
50	90	45	60	6	133	167	2

MORPHOMETRICAL GRAVEL ANALYSES

Sample area no : BP 60/2 Date :

Location : Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	85	35	80	4	94	235	3
2	85	35	80	5	117	236	3
3	75	40	60	6	160	169	3
4	75	40	45	5	133	150	3
5	65	30	50	4	123	192	3
6	55	20	40	5	182	238	3
7	50	20	40	5	200	225	3
8	80	20	60	5	125	350	3
9	65	20	35	3	93	250	3
10	40	20	28	3	150	170	3
11	85	55	65	5	117	143	3
12	80	20	40	3	75	300	3
13	60	16	30	2	67	283	2
14	85	10	50	3	71	675	2
15	80	30	55	5	125	225	3
16	50	20	40	5	200	225	3
17	60	40	45	4	133	131	3
18	55	20	30	2	73	213	2
19	45	10	30	4	178	375	3
20	70	30	60	4	114	217	3
21	65	26	40	2	62	202	3
22	40	28	30	2	100	125	3
23	50	28	30	3	120	143	3
24	60	35	40	3	100	143	3
25	35	26	30	3	171	144	3
26	50	30	45	3	120	158	3
27	55	10	30	4	145	425	2
28	40	12	28	4	200	283	2
29	35	20	28	4	119	158	3
30	90	40	50	3	67	175	2
31	95	28	40	4	84	241	3
32	55	30	40	3	109	158	3
33	85	40	50	4	94	169	3
34	55	30	40	5	182	158	3
35	70	20	45	3	86	288	3
36	55	35	45	6	218	143	3
37	45	10	35	3	133	400	2
38	45	26	30	4	178	144	3
39	60	40	40	5	167	125	3
40	55	30	40	3	109	158	3
41	75	50	55	5	133	130	2
42	60	30	50	5	167	183	3
43	35	20	28	2	114	158	3
44	45	30	35	4	178	133	3
45	45	20	30	3	133	188	3
46	40	20	30	3	150	175	3
47	60	24	50	3	100	229	3
48	45	30	30	4	178	125	3
49	55	20	28	3	109	208	2
50	45	10	35	5	222	400	2

MORPHOMETRICAL GRAVEL ANALYSES

Sample areas no : BP 22 Date :

Location Amphoe Bo Phloi, Changwat Kanchanaburi

Pebble No.	Max. Length L.	Max. Thickness E.	Max.Breadth I.	Min. Radius of curve=R.	Roundness (2r/L) 1000	Flatness (L+I) 1000	Rock Type
1	140	50	90	10	143	230	3
2	60	28	35	4	133	170	3
3	60	40	50	3	100	138	3
4	50	30	35	4	160	142	3
5	80	20	30	3	75	275	3
6	50	18	30	5	200	222	3
7	60	30	40	3	100	167	3
8	80	35	75	10	250	221	3
9	55	28	30	3	109	152	3
10	65	20	40	4	123	263	3
11	50	20	40	3	120	225	3
12	40	20	25	3	150	163	3
13	75	24	40	5	133	240	3
14	75	35	50	5	133	179	3
15	45	10	40	5	222	425	3
16	55	20	40	4	145	238	3
17	60	10	35	4	133	475	2
18	45	20	28	3	133	183	3
19	50	20	28	4	160	170	3
20	45	20	30	1	44	188	2
21	40	24	35	1	50	156	3
22	50	30	35	4	160	142	3
23	45	30	35	5	222	133	2
24	40	20	30	1	50	175	3
25	40	20	30	4	200	175	3
26	55	30	35	2	73	150	2
27	50	18	30	2	80	222	2
28	45	20	25	3	133	175	3
29	50	24	35	2	80	177	2
30	45	20	30	2	89	188	2
31	40	12	26	2	100	275	3
32	45	20	30	4	178	188	3
33	50	10	35	3	120	425	3
34	60	30	45	3	100	175	3
35	60	12	28	3	100	367	2
36	45	20	30	4	178	188	2
37	60	40	40	4	133	125	3
38	40	20	25	3	150	163	3
39	65	24	45	4	123	229	3
40	40	28	35	3	150	140	3
41	40	20	30	4	200	175	3
42	50	10	35	2	80	425	3
43	35	18	24	3	171	192	3
44	55	30	40	3	109	158	3
45	50	20	35	5	200	213	3
46	45	20	30	4	178	188	3
47	45	20	30	4	178	188	3
48	40	10	30	3	150	350	2
49	45	20	28	3	133	183	3
50	70	40	45	2	57	144	2

BIODATA

Mr. Montri Choowong was born in May 17, 1972, at Ayutthaya province. He has been finished primary and high school from Ayutthaya withayalai school and graduated a bachelor degree in geology, department of geology, faculty of science, Chulalongkorn university in 1994. He has been one of temporary staff of Gemstone Exploration Section, Economic Geology Division, DMR for one and half years after graduated. Presently, he is initially start his present work in the form of lecturer at department of geology, faculty of science, Chulalongkorn university and also study in a Master course in geology together.