

CLIENT: SRK
 P.O Box 6824
 Roggebaai
 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark yellow sand
POSITION : KB 8 @ 3.45-4.50m

SAMPLE NO. : 10796
CLIENT SAMPLE NO. :

| Sieve Analysis | Percent Passing |
|----------------|-----------------|
| 75.00 | |
| 63.00 | |
| 53.00 | |
| 37.50 | |
| 26.50 | |
| 19.00 | |
| 13.20 | |
| 9.50 | |
| 6.70 | |
| 4.75 | |
| 2.36 | |
| 2.00 | |
| 1.18 | 100 |
| 0.600 | 97 |
| 0.425 | 91 |
| 0.300 | 81 |
| 0.150 | 11 |
| 0.0750 | 2 |

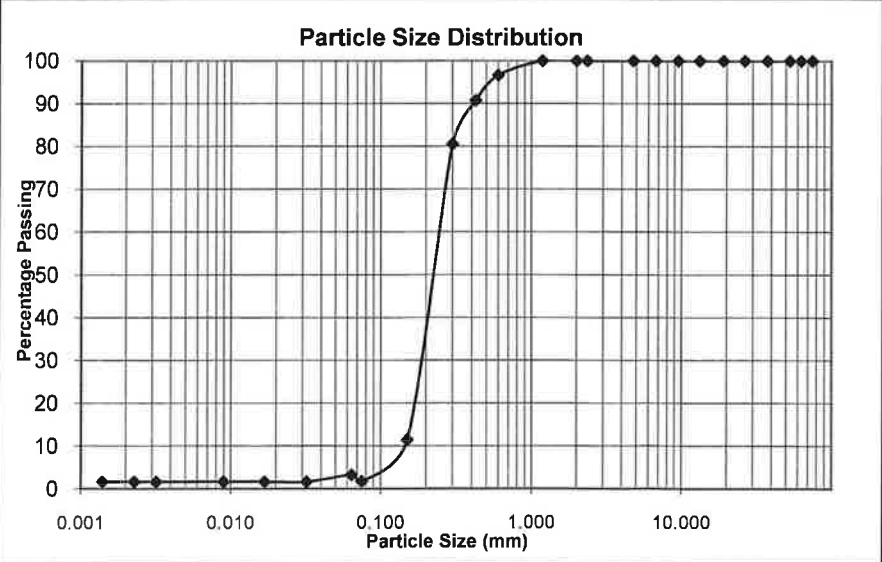
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| <i>Atterberg Limits :</i> | |
|-----------------------------|-----|
| <i>TMH1 A2, A3 & A4</i> | |
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> | <i>TMH1</i> |
|---------------------------------|-------------|
| <i>A7 & A8</i> | |
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only. While the tests are carried out according to recognized standards Geoscience shall not be liable for erroneous testing or reporting thereof. This report may not be reproduced except in full without prior consent of Geoscience. For Geoscience:

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REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 8 @ 12.00-12.45m

SAMPLE NO. : 10797
CLIENT SAMPLE NO. :

| Sieve Analysis | Percent Passing |
|----------------|-----------------|
| 75.00 | |
| 63.00 | |
| 53.00 | |
| 37.50 | |
| 26.50 | |
| 19.00 | |
| 13.20 | |
| 9.50 | |
| 6.70 | |
| 4.75 | |
| 2.36 | |
| 2.00 | 100 |
| 1.18 | 99 |
| 0.600 | 84 |
| 0.425 | 74 |
| 0.300 | 64 |
| 0.150 | 29 |
| 0.0750 | 3 |

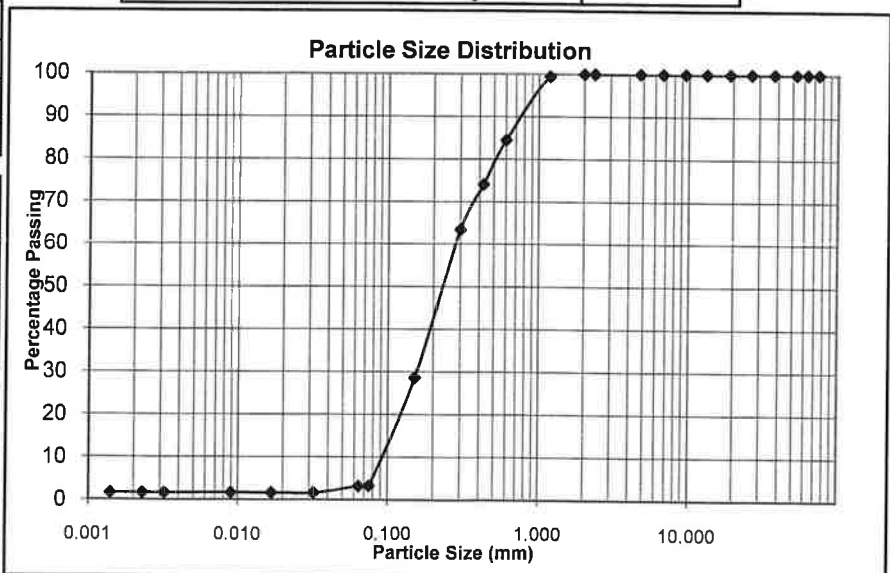
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|
| Specific Gravity: |
| Initial Moisture Content (%) : |
| pH : |
| Conductivity mS/m : |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey slightly silty sand
POSITION : KB 8 @ 16.45-17.95m

SAMPLE NO. : 10798
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | 100 |
| | 2.36 | 97 |
| | 2.00 | 96 |
| | 1.18 | 90 |
| | 0.600 | 83 |
| | 0.425 | 81 |
| | 0.300 | 80 |
| | 0.150 | 76 |
| | 0.0750 | 11 |

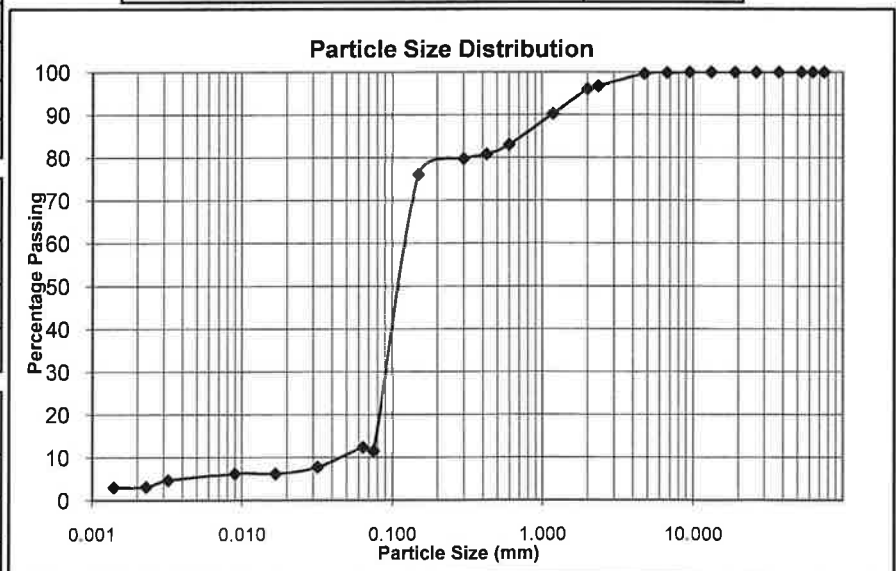
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0762 | 12 |
| 0.0388 | 8 |
| 0.0194 | 6 |
| 0.0100 | 6 |
| 0.0035 | 5 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | S-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. : TMH1</i> <i>A7 & A8</i> | |
|---|--|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 88 |
| Silt : Percentage - 0.075mm and + 0.002mm | 7 |
| Clay : Percentage - 0.002mm | 4 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 8 @ 16.45-17.95m

SAMPLE NO. : 10797
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 84 |
| | 0.425 | 74 |
| | 0.300 | 64 |
| | 0.150 | 29 |
| | 0.0750 | 3 |

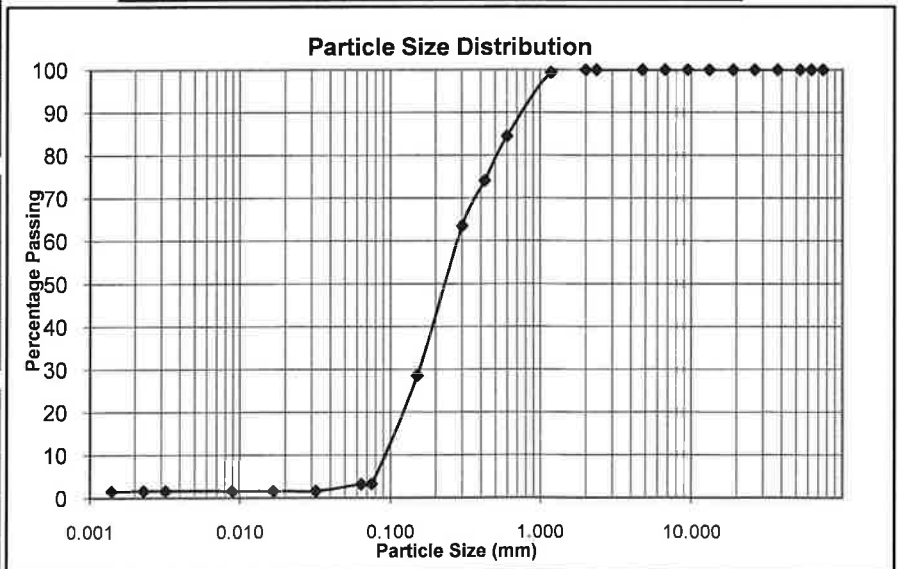
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. : TMH1</i> <i>A7 & A8</i> | |
|---|--|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light grey sand
POSITION : KB 10 @ 1.95-3.00m

SAMPLE NO. : 10799
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 91 |
| | 0.425 | 75 |
| | 0.300 | 57 |
| | 0.150 | 15 |
| | 0.0750 | 8 |

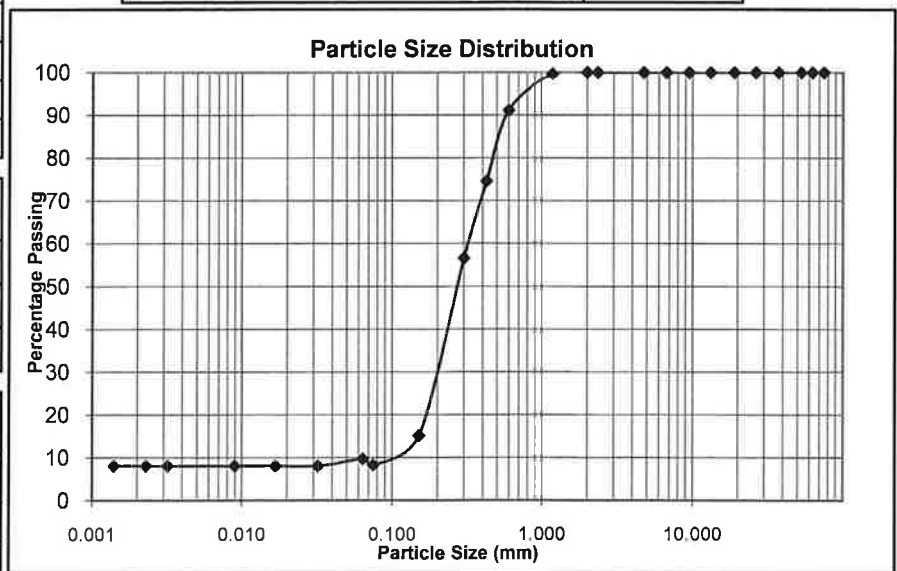
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0769 | 10 |
| 0.0388 | 8 |
| 0.0194 | 8 |
| 0.0100 | 8 |
| 0.0035 | 8 |
| 0.0025 | 8 |
| 0.0014 | 8 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 92 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 8 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light yellow sand
POSITION : KB 10 @ 13.95-15.00m

SAMPLE NO. : 10800
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 92 |
| | 0.300 | 76 |
| | 0.150 | 15 |
| | 0.0750 | 6 |

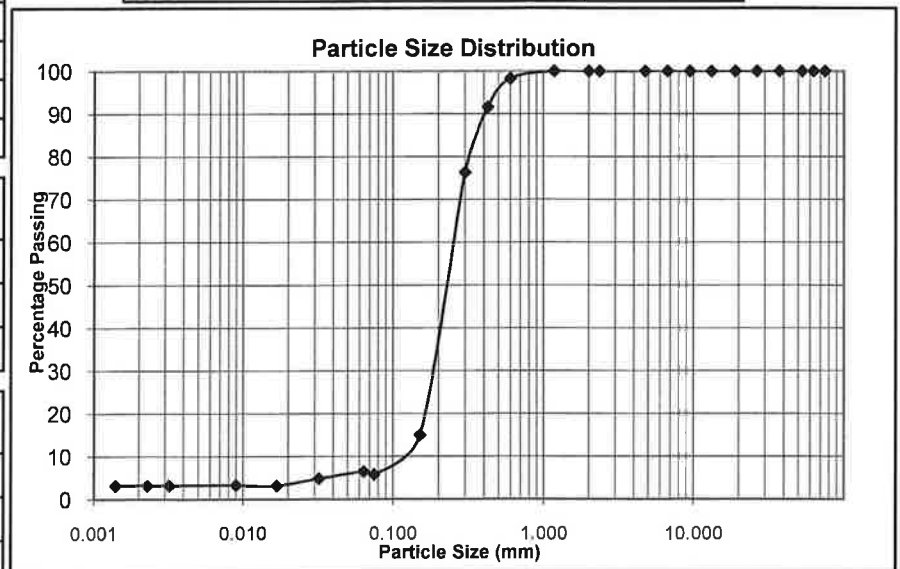
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 3 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : | |
|-----------------------------|-----|
| <i>TMH1 A2, A3 & A4</i> | |
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : | |
|---------------------------------|--|
| <i>A7 & A8 TMH1</i> | |
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 94 |
| Silt : Percentage - 0.075mm and + 0.002mm | 3 |
| Clay : Percentage - 0.002mm | 3 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 10 @ 15.00-15.45m

SAMPLE NO. : 10801
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 90 |
| | 0.300 | 76 |
| | 0.150 | 17 |
| | 0.0750 | 6 |

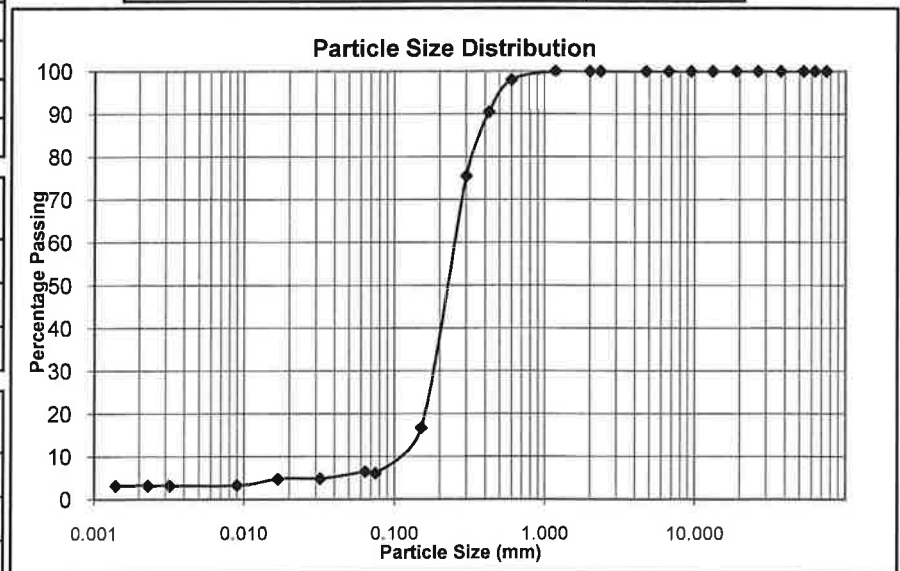
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 94 |
| Silt : Percentage - 0.075mm and + 0.002mm | 3 |
| Clay : Percentage - 0.002mm | 3 |

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REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark yellow sand
POSITION : KB 12 @ 0.00-1.50m

SAMPLE NO. : 10802
CLIENT SAMPLE NO. :

| Sieve Analysis | | Percent Passing |
|-----------------|-------|-----------------|
| SIEVE SIZE (mm) | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 96 |
| | 0.425 | 91 |
| 0.300 | 81 | |
| 0.150 | 24 | |
| 0.0750 | 5 | |

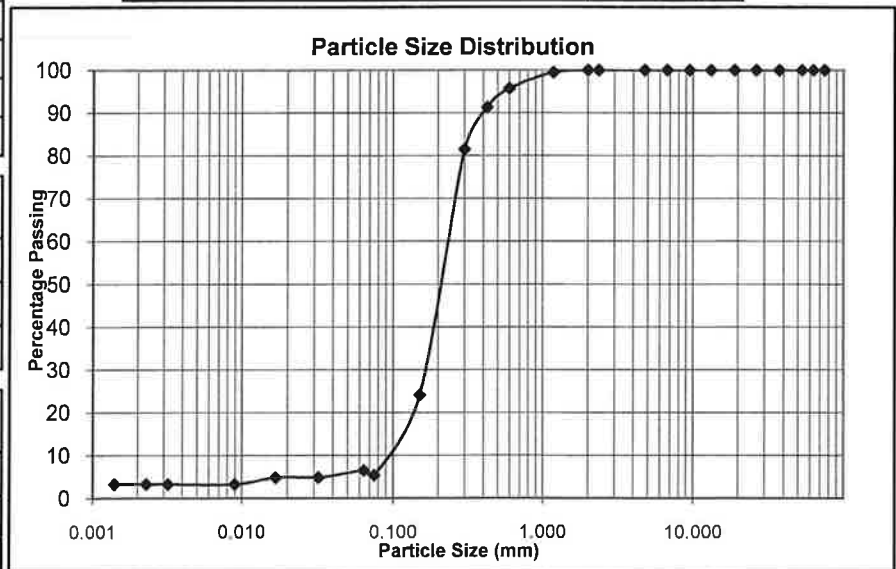
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | <i>TMH1</i> |
|--|-------------|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 95 |
| Silt : Percentage - 0.075mm and + 0.002mm | 2 |
| Clay : Percentage - 0.002mm | 3 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 12 @ 7.95-9.00m

SAMPLE NO. : 10803
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 81 |
| | 0.425 | 62 |
| | 0.300 | 42 |
| | 0.150 | 6 |
| | 0.0750 | 4 |

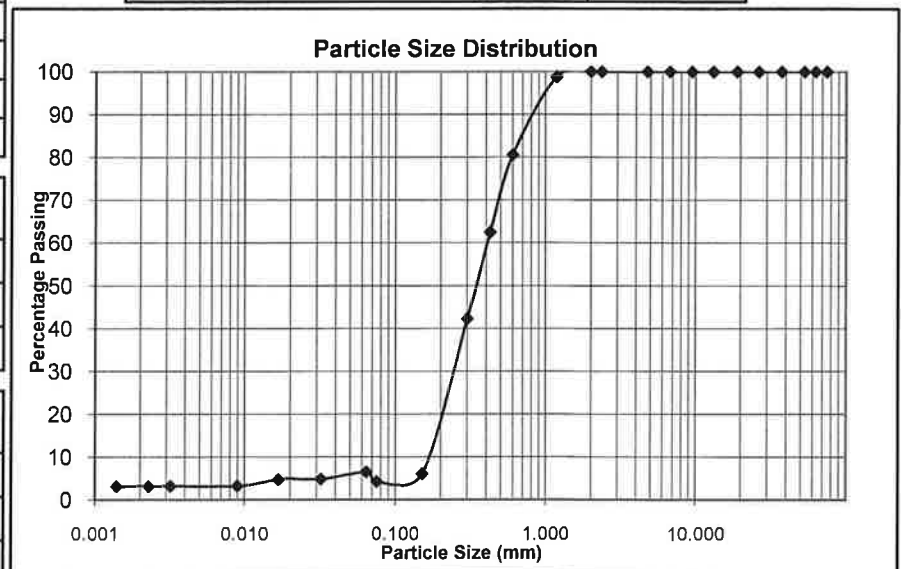
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | | <i>TMH1</i> |
|--|--|-------------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 96 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 3 |

The above test results are pertinent to the samples received and tested only.

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 Roggebaai
 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 12 @ 12.45-13.50m

SAMPLE NO. : 10804
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 87 |
| | 0.425 | 80 |
| | 0.300 | 73 |
| | 0.150 | 37 |
| | 0.0750 | 6 |

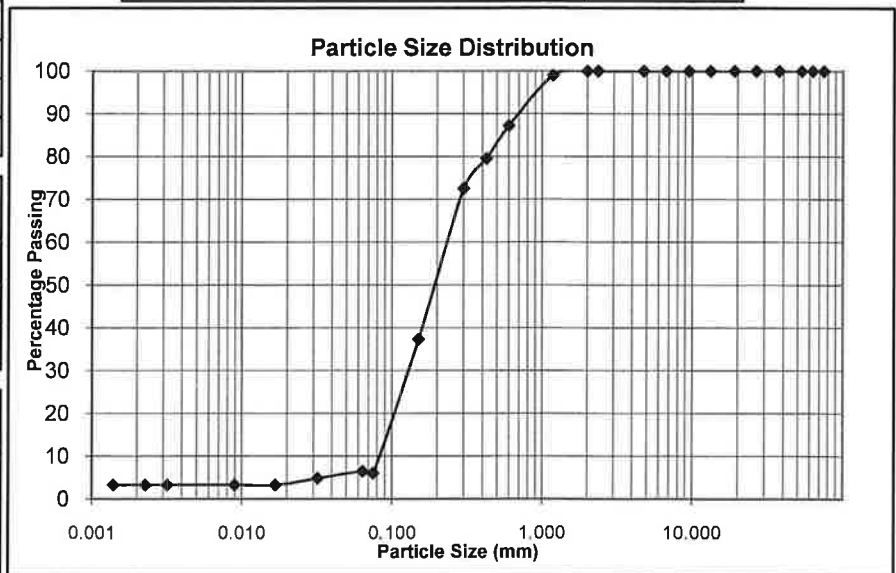
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 3 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 94 |
| Silt : Percentage - 0.075mm and + 0.002mm | 3 |
| Clay : Percentage - 0.002mm | 3 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 12 @ 13.50-13.95m

SAMPLE NO. : 10805
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 85 |
| | 0.425 | 73 |
| | 0.300 | 60 |
| | 0.150 | 17 |
| | 0.0750 | 2 |

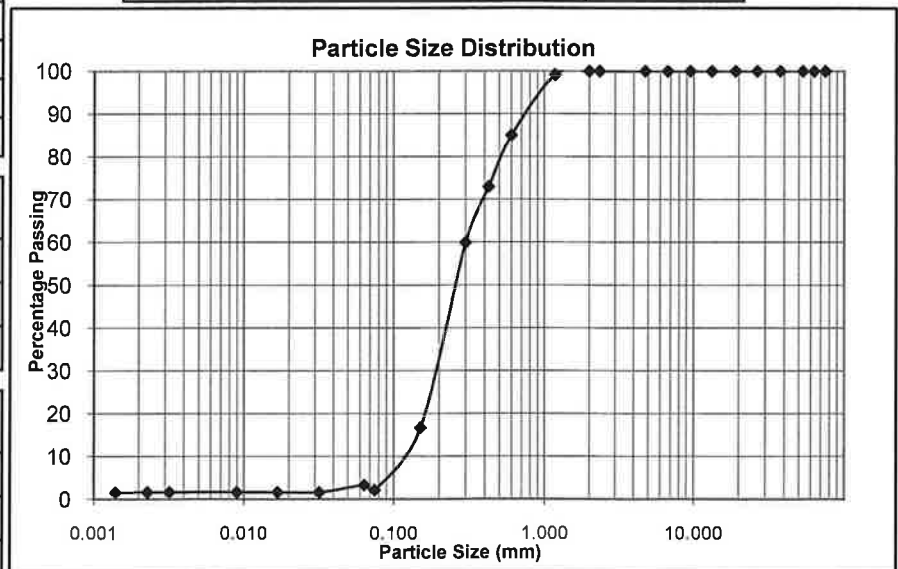
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : <i>A7 & A8</i> | | TMH1 |
|--|--|-------------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 12 @ 22.95-24.00m

SAMPLE NO. : 10806
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 90 |
| | 0.600 | 60 |
| | 0.425 | 47 |
| | 0.300 | 38 |
| | 0.150 | 12 |
| | 0.0750 | 2 |

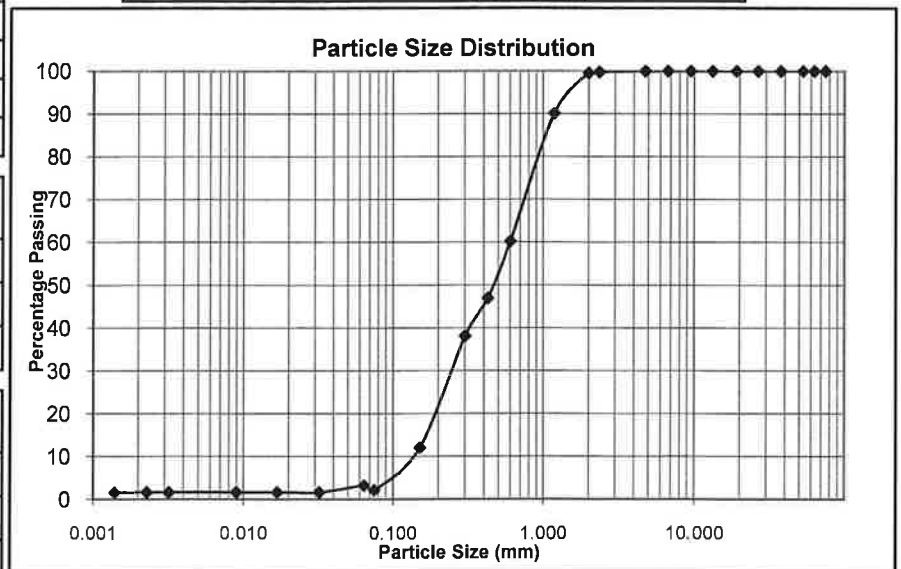
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light yellow orange sand
POSITION : KB 14 @ 5.00-6.00m

SAMPLE NO. : 10807
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 99 |
| | 0.425 | 97 |
| | 0.300 | 90 |
| | 0.150 | 24 |
| | 0.0750 | 6 |

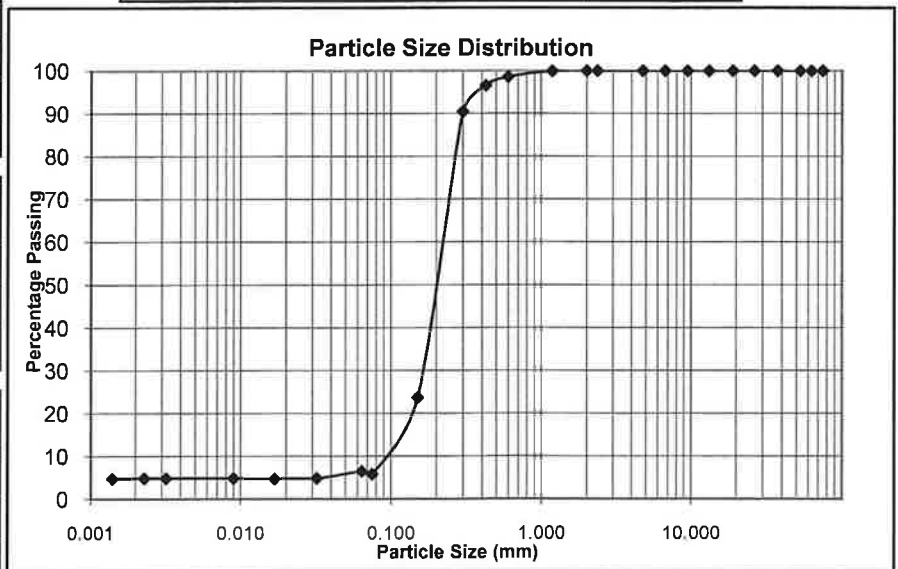
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 5 |
| 0.0035 | 5 |
| 0.0025 | 5 |
| 0.0014 | 5 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|---|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 94 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 5 |

The above test results are pertinent to the samples received and tested only.

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 14 @ 15.45-16.50m

SAMPLE NO. : 10808
CLIENT SAMPLE NO. :

| Sieve Analysis | Percent Passing |
|----------------|-----------------|
| 75.00 | |
| 63.00 | |
| 53.00 | |
| 37.50 | |
| 26.50 | |
| 19.00 | |
| 13.20 | |
| 9.50 | |
| 6.70 | |
| 4.75 | |
| 2.36 | |
| 2.00 | |
| 1.18 | 100 |
| 0.600 | 99 |
| 0.425 | 99 |
| 0.300 | 98 |
| 0.150 | 66 |
| 0.0750 | 2 |

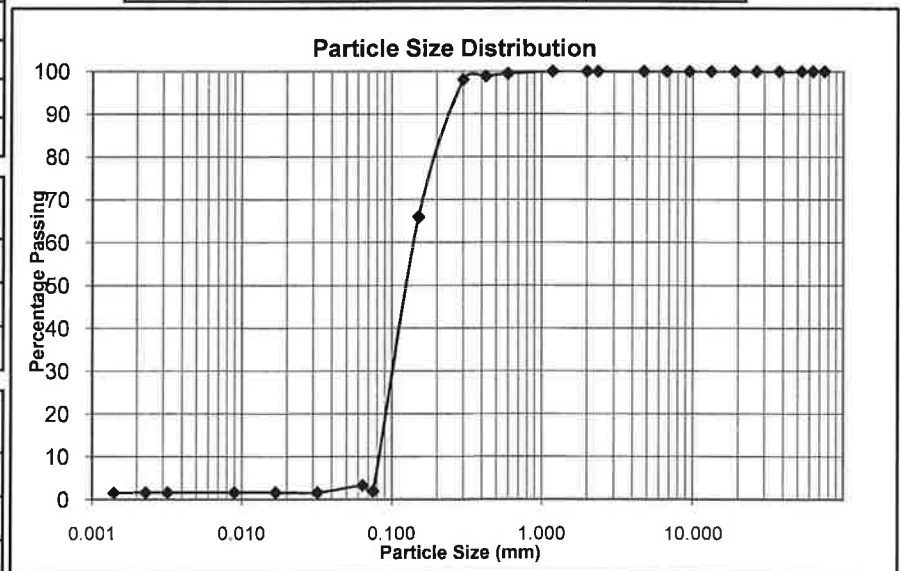
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|
| Specific Gravity: |
| Initial Moisture Content (%) : |
| pH : |
| Conductivity mS/m : |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : TMH1 A7 & A8 | |
|---|--|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light grey sand
POSITION : KB 14 @ 16.50-16.95m

SAMPLE NO. : 10809
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 97 |
| | 0.300 | 96 |
| | 0.150 | 58 |
| | 0.0750 | 5 |

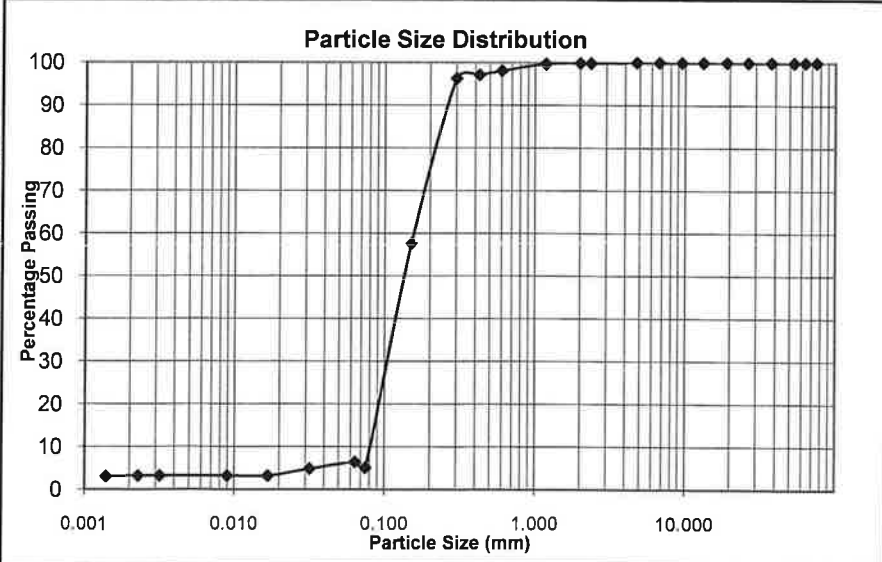
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 3 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|---|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 95 |
| Silt : Percentage - 0.075mm and + 0.002mm | 2 |
| Clay : Percentage - 0.002mm | 3 |

The above test results are pertinent to the samples received and tested only. While the tests are carried out according to recognized standards Geoscience shall not be liable for erroneous testing or reporting thereof. This report may not be reproduced except in full without prior consent of Geoscience.

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : grey sand
POSITION : KB 21 @ 0.00-1.50m

SAMPLE NO. : 10810
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 96 |
| | 0.600 | 72 |
| | 0.425 | 57 |
| | 0.300 | 37 |
| | 0.150 | 6 |
| | 0.0750 | 3 |

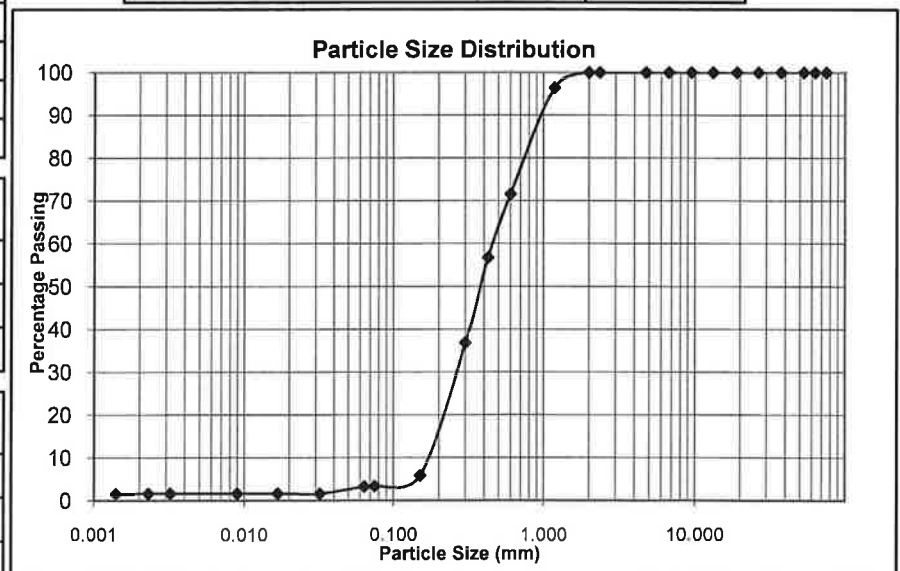
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|
| Specific Gravity: |
| Initial Moisture Content (%) : |
| pH : |
| Conductivity mS/m : |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | | <i>TMH1</i> |
|--|--|-------------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

CLIENT: SRK
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 Roggebaai
 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : grey sand
POSITION : KB 21 @ 7.95-9.00m

SAMPLE NO. : 10811
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 98 |
| | 0.600 | 73 |
| | 0.425 | 47 |
| | 0.300 | 24 |
| | 0.150 | 4 |
| | 0.0750 | 3 |

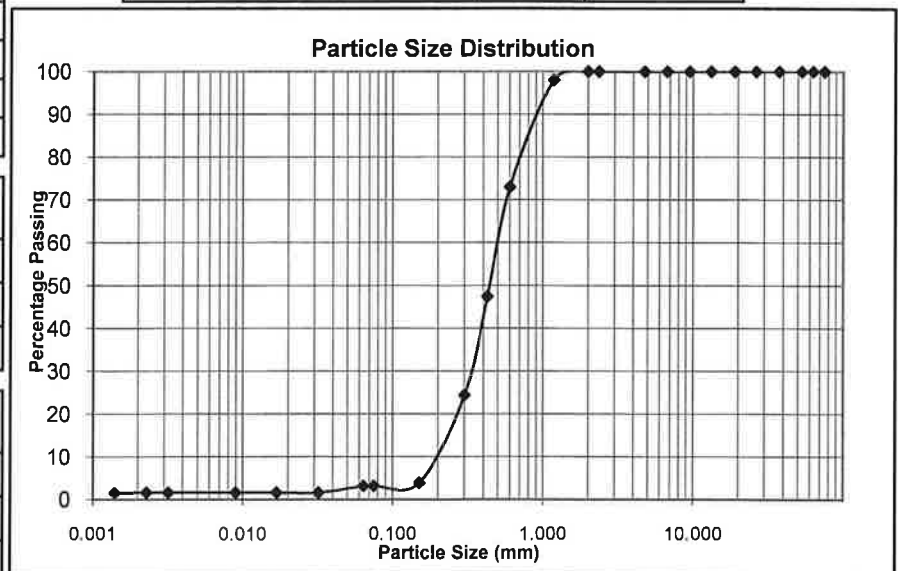
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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CLIENT: SRK
P.O Box 6824
Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 21 @ 12.45-13.50m

SAMPLE NO. : 10812
CLIENT SAMPLE NO. :

| Sieve Analysis | Percent Passing |
|----------------|-----------------|
| 75.00 | |
| 63.00 | |
| 53.00 | |
| 37.50 | |
| 26.50 | |
| 19.00 | |
| 13.20 | |
| 9.50 | |
| 6.70 | |
| 4.75 | |
| 2.36 | |
| 2.00 | 100 |
| 1.18 | 99 |
| 0.600 | 91 |
| 0.425 | 85 |
| 0.300 | 78 |
| 0.150 | 46 |
| 0.0750 | 4 |

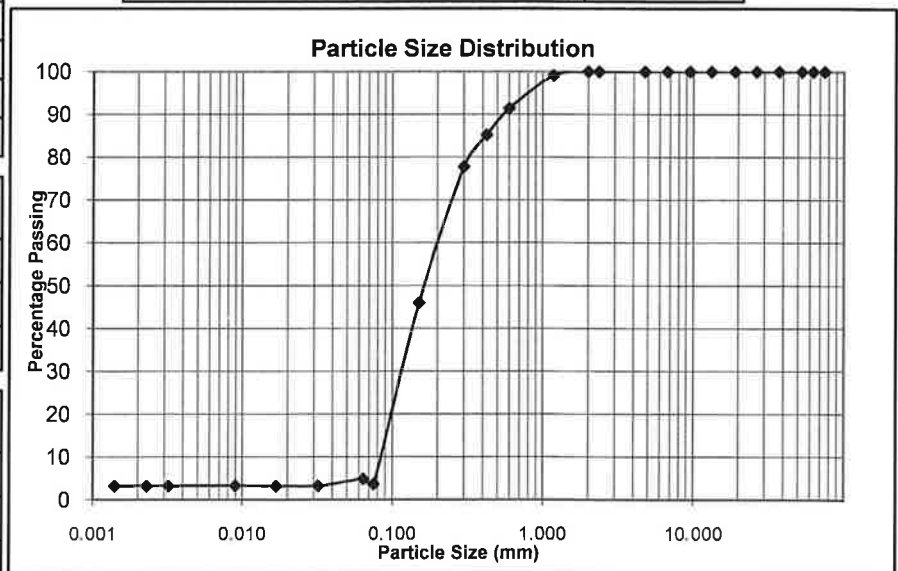
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 5 |
| 0.0391 | 3 |
| 0.0195 | 3 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|
| Specific Gravity: |
| Initial Moisture Content (%) : |
| pH : |
| Conductivity mS/m : |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | | <i>TMH1</i> |
|--|--|-------------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 96 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 3 |

The above test results are pertinent to the samples received and tested only.

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Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 21 @ 16.95-18.00m

SAMPLE NO. : 10813
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 98 |
| | 0.600 | 83 |
| | 0.425 | 71 |
| | 0.300 | 63 |
| | 0.150 | 41 |
| | 0.0750 | 5 |

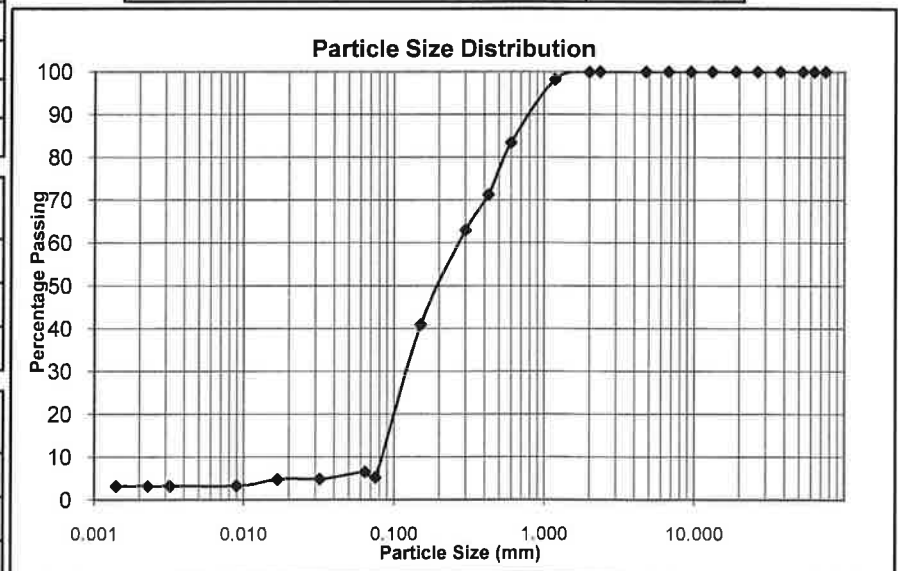
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : <i>A7 & A8</i> | | TMH1 |
|--|--|-------------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 95 |
| Silt : Percentage - 0.075mm and + 0.002mm | 2 |
| Clay : Percentage - 0.002mm | 3 |

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ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light grey sand
POSITION : KB 25 @ 0.00-1.50m

SAMPLE NO. : 10814
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 96 |
| | 0.425 | 81 |
| | 0.300 | 49 |
| | 0.150 | 4 |
| | 0.0750 | 3 |

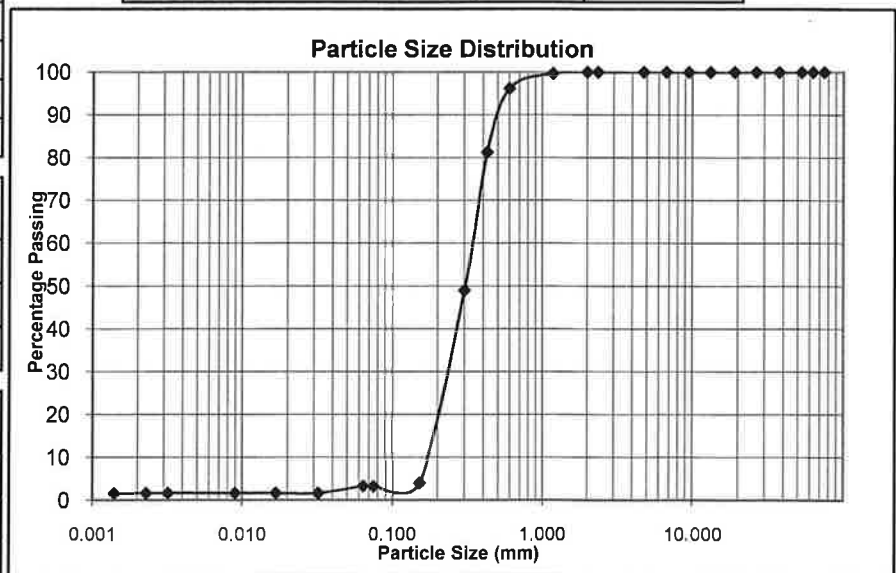
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown & yellow sand
POSITION : KB 25 @ 6.45-7.50m

SAMPLE NO. : 10815
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | 100 |
| | 2.36 | 99 |
| | 2.00 | 98 |
| | 1.18 | 96 |
| | 0.600 | 79 |
| | 0.425 | 64 |
| | 0.300 | 41 |
| | 0.150 | 5 |
| | 0.0750 | 2 |

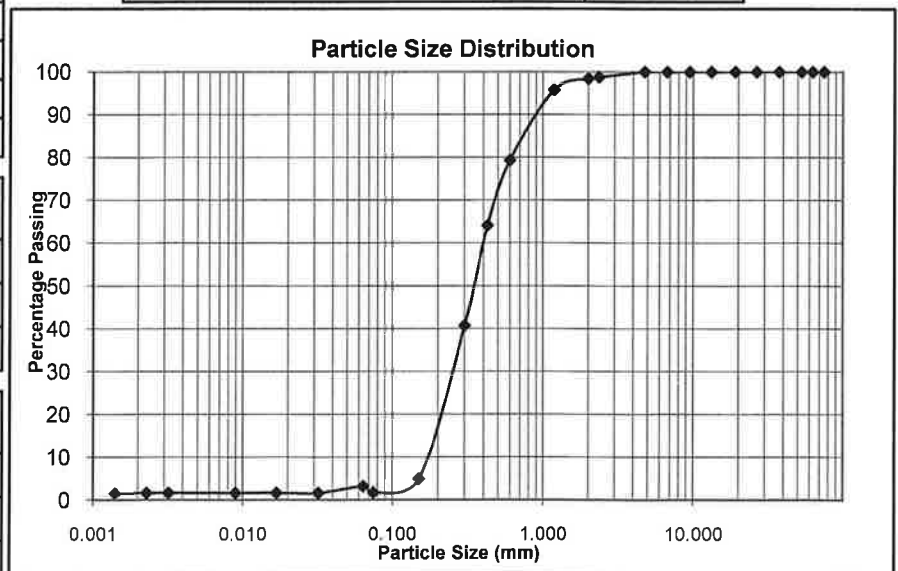
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : <i>TMH1 A7 & A8</i> | |
|---|--|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

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PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 25 @ 13.95-15.00m

SAMPLE NO. : 10816
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 98 |
| | 0.600 | 84 |
| | 0.425 | 72 |
| | 0.300 | 56 |
| | 0.150 | 24 |
| | 0.0750 | 2 |

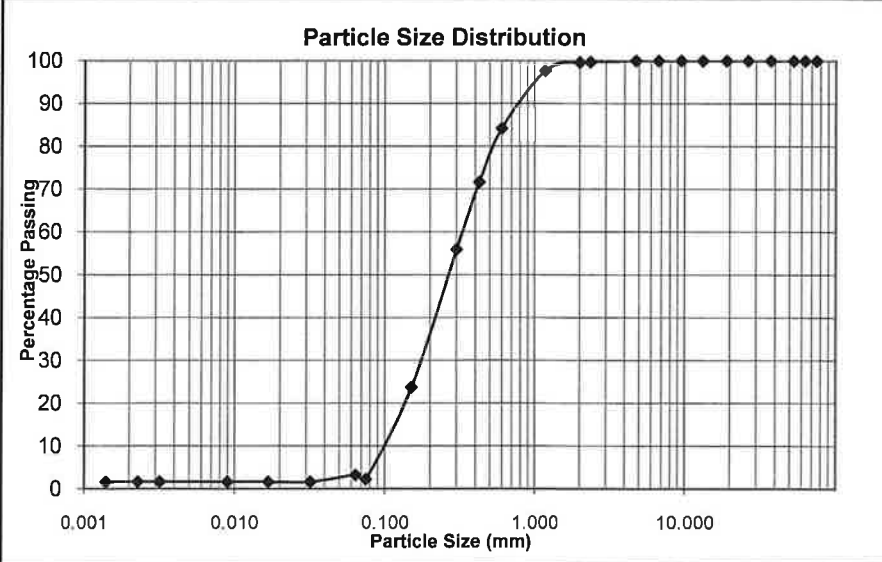
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

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 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark yellow sand
POSITION : KB 30 @ 1.95-3.00m

SAMPLE NO. : 10817
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 93 |
| | 0.425 | 81 |
| | 0.300 | 59 |
| | 0.150 | 9 |
| | 0.0750 | 3 |

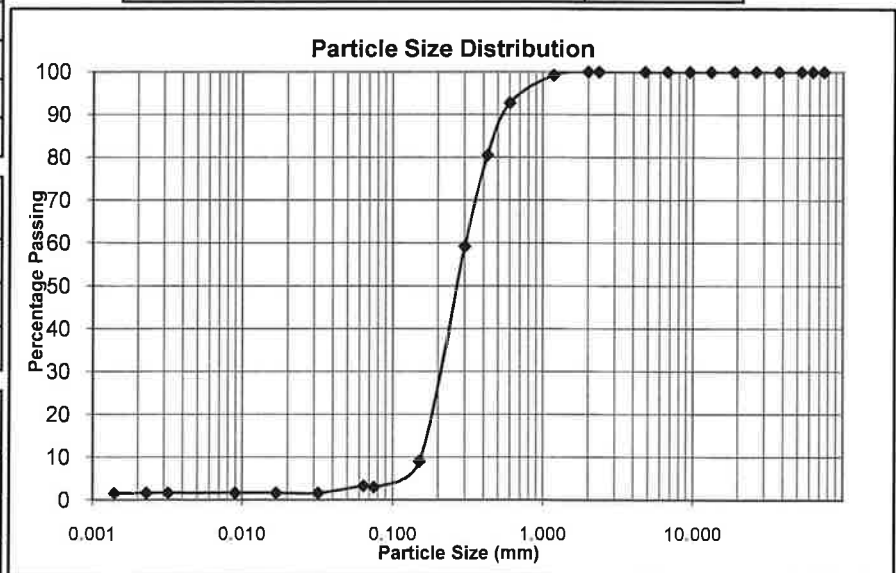
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> | |
|-----------------------------|-----|
| <i>TMH1 A2, A3 & A4</i> | |
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> | <i>TMH1</i> |
|---------------------------------|-------------|
| <i>A7 & A8</i> | |
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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 Roggebaai
 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 30 @ 7.95-9.00m

SAMPLE NO. : 10818
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 91 |
| | 0.425 | 76 |
| | 0.300 | 65 |
| | 0.150 | 36 |
| | 0.0750 | 2 |

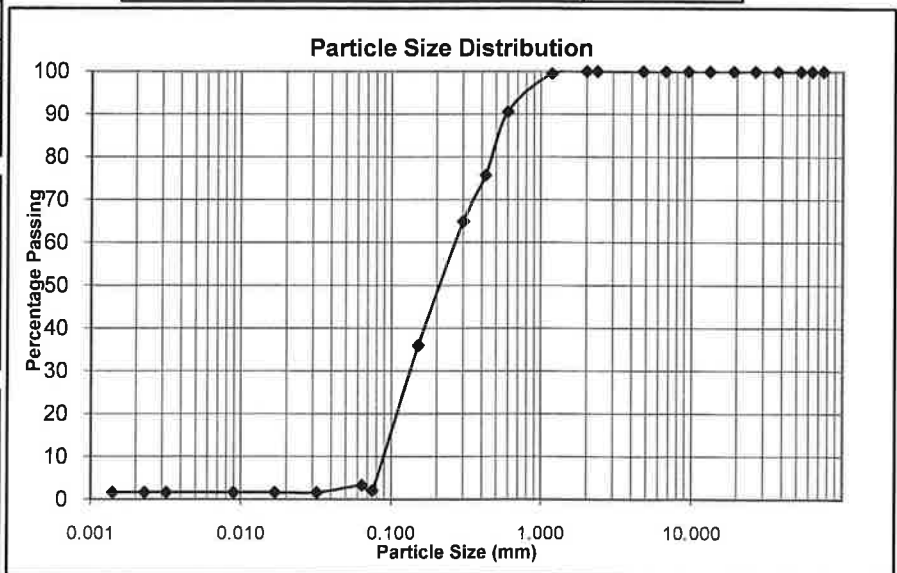
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

For Geoscience:

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Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey sand
POSITION : KB 30 @ 15.45-16.50m

SAMPLE NO. : 10819
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 95 |
| | 0.300 | 91 |
| | 0.150 | 66 |
| | 0.0750 | 7 |

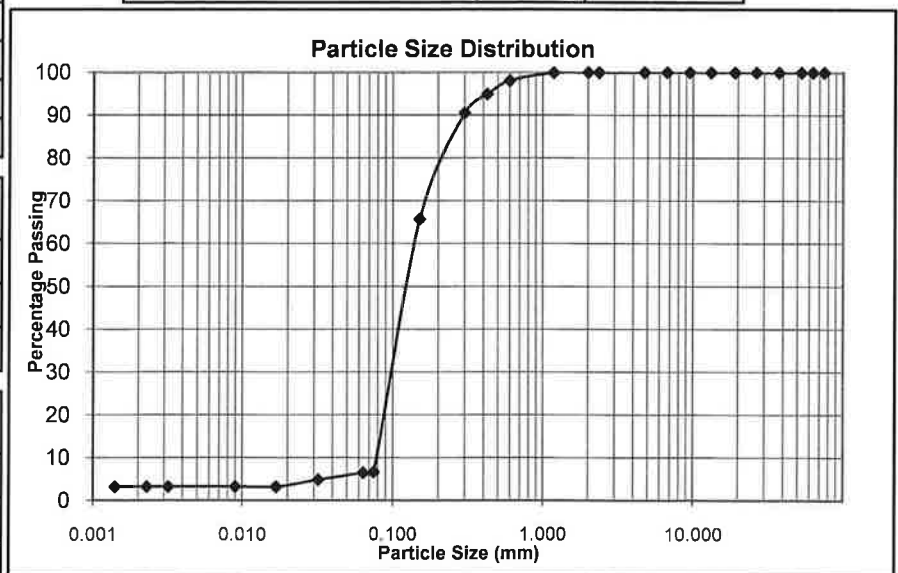
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 3 |
| 0.0101 | 3 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 93 |
| Silt : Percentage - 0.075mm and + 0.002mm | 4 |
| Clay : Percentage - 0.002mm | 3 |

The above test results are pertinent to the samples received and tested only. While the tests are carried out according to recognized standards Geoscience shall not be liable for erroneous testing or reporting thereof. This report may not be reproduced except in full without prior consent of Geoscience.

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CLIENT: SRK
P.O Box 6824
Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 31 @ 0.00-1.50m

SAMPLE NO. : 10820
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | 100 |
| | 2.36 | 99 |
| | 2.00 | 99 |
| | 1.18 | 97 |
| | 0.600 | 87 |
| | 0.425 | 77 |
| | 0.300 | 60 |
| | 0.150 | 16 |
| | 0.0750 | 6 |

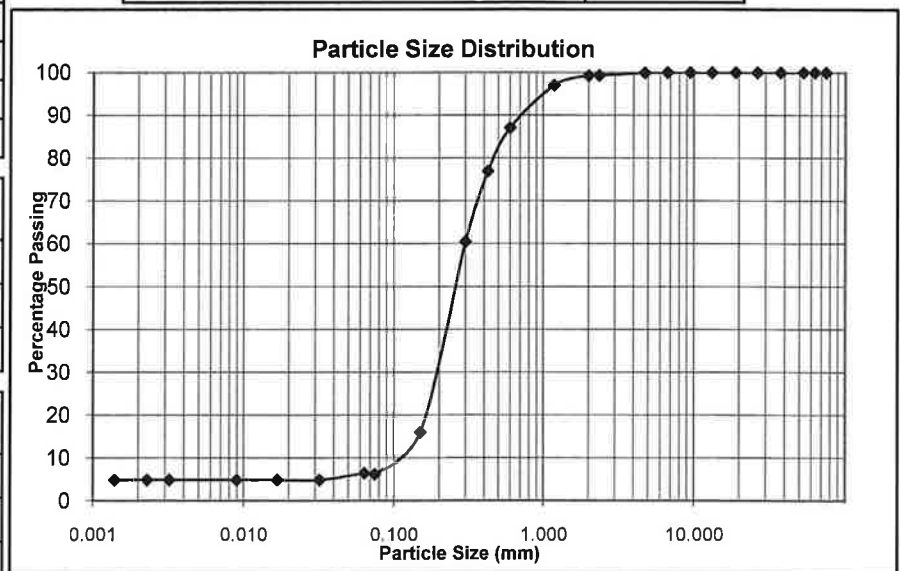
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0777 | 6 |
| 0.0391 | 5 |
| 0.0195 | 5 |
| 0.0101 | 5 |
| 0.0035 | 5 |
| 0.0025 | 5 |
| 0.0014 | 5 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|
| Specific Gravity: |
| Initial Moisture Content (%) : |
| pH : |
| Conductivity mS/m : |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 94 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 5 |

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PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : yellow sand
POSITION : KB 31 @ 4.50-4.95m

SAMPLE NO. : 10821
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 94 |
| | 0.600 | 50 |
| | 0.425 | 25 |
| | 0.300 | 17 |
| | 0.150 | 10 |
| | 0.0750 | 2 |

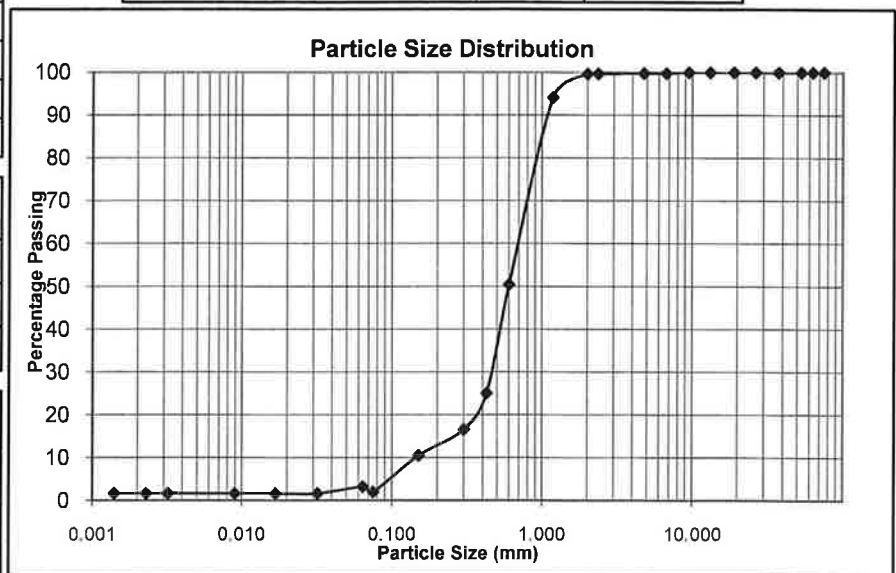
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

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ASTM D422 SIEVE ANALYSIS

DESCRIPTION : grey sand
POSITION : KB 31 @ 7.95-9.00m

SAMPLE NO. : 10822
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 79 |
| | 0.425 | 64 |
| | 0.300 | 53 |
| | 0.150 | 15 |
| | 0.0750 | 2 |

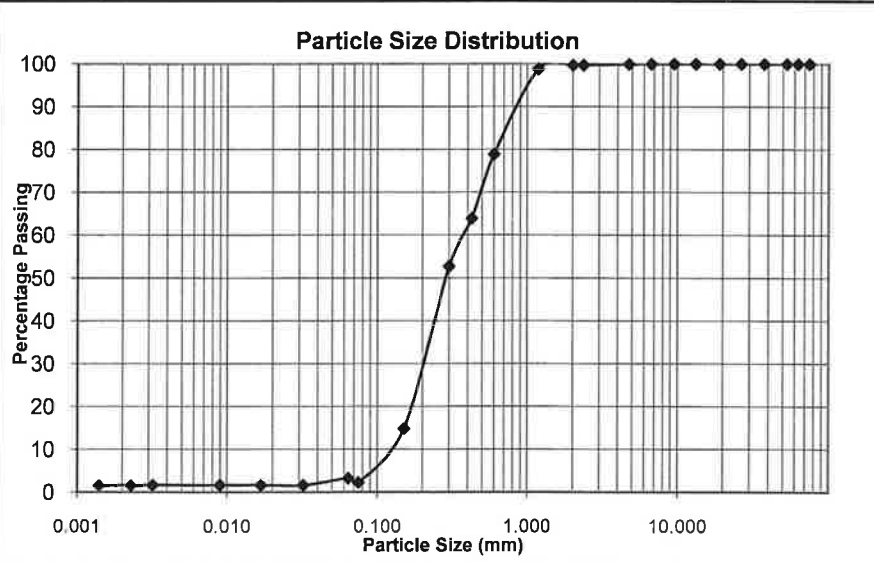
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

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|--|-----|
| Atterberg Limits : TMH1 A2, A3 & A4 | |
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| | | |
|--|--|-------------|
| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

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DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark grey olive sand
POSITION : KB 31 @ 15.45-16.50m

SAMPLE NO. : 10823
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 95 |
| | 0.425 | 91 |
| | 0.300 | 88 |
| | 0.150 | 59 |
| | 0.0750 | 11 |

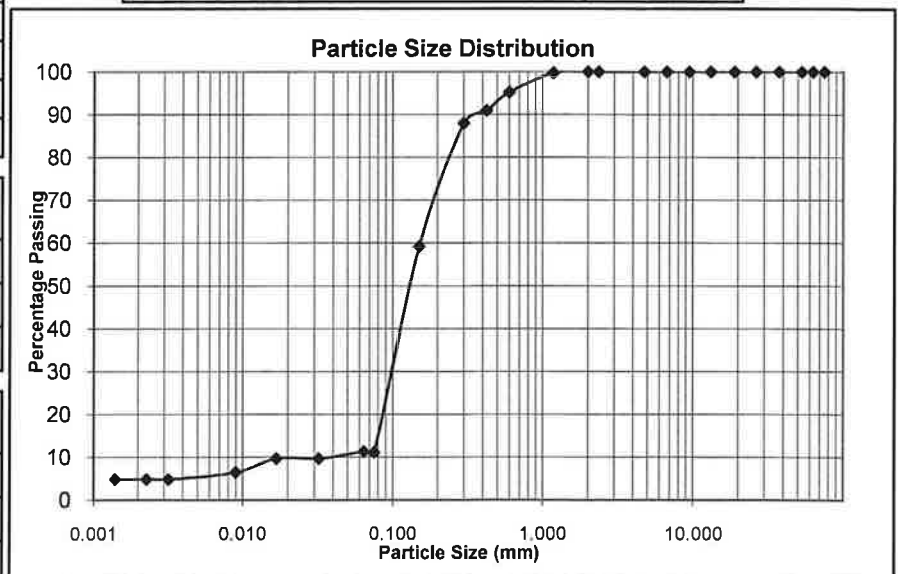
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0769 | 11 |
| 0.0385 | 10 |
| 0.0192 | 10 |
| 0.0100 | 6 |
| 0.0035 | 5 |
| 0.0025 | 5 |
| 0.0014 | 5 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 89 |
| Silt : Percentage - 0.075mm and + 0.002mm | 6 |
| Clay : Percentage - 0.002mm | 5 |

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PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : very dark grey slightly silty sand
POSITION : KB 31 @ 20.85-21.00m
20.23

SAMPLE NO. : 10824
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 96 |
| | 0.425 | 92 |
| | 0.300 | 87 |
| | 0.150 | 55 |
| | 0.0750 | 22 |

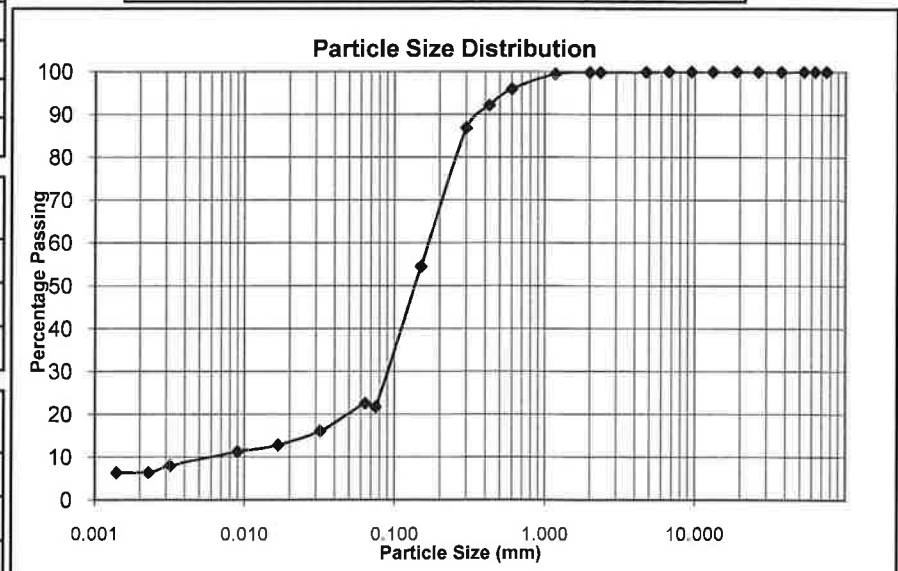
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0742 | 23 |
| 0.0378 | 16 |
| 0.0190 | 13 |
| 0.0099 | 11 |
| 0.0035 | 8 |
| 0.0025 | 6 |
| 0.0014 | 6 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | S-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 78 |
| Silt : Percentage - 0.075mm and + 0.002mm | 15 |
| Clay : Percentage - 0.002mm | 7 |

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PROJECT: Koeberg
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REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light grey sand
POSITION : KB 34 @ 0.00-1.50m

SAMPLE NO. : 10825
CLIENT SAMPLE NO. :

| Sieve Analysis | | Percent Passing |
|-----------------|-------|-----------------|
| SIEVE SIZE (mm) | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 96 |
| | 0.425 | 85 |
| 0.300 | 62 | |
| 0.150 | 4 | |
| 0.0750 | 2 | |

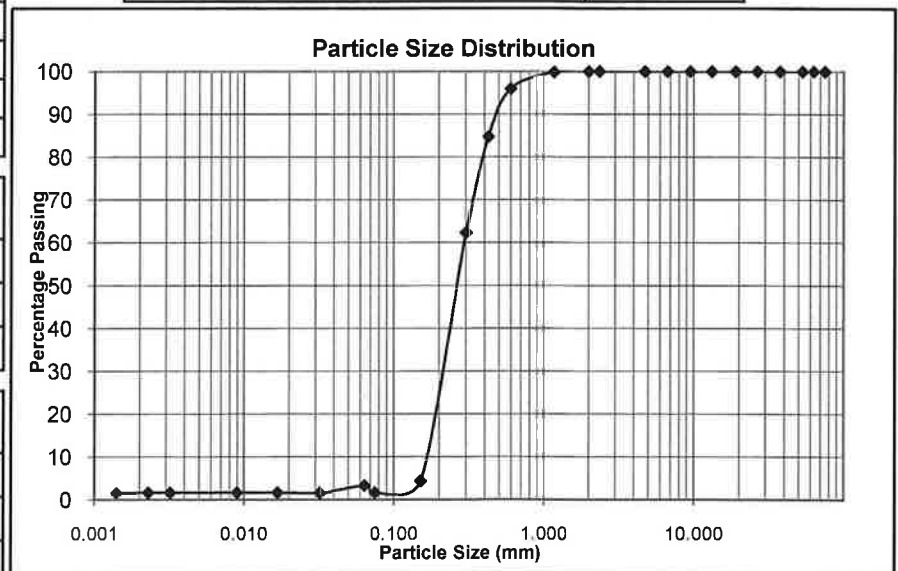
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0035 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | | <i>TMH1</i> |
|--|--|-------------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

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PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 34 @ 1.50-1.95m

SAMPLE NO. : 10826
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 95 |
| | 0.425 | 80 |
| | 0.300 | 56 |
| | 0.150 | 6 |
| | 0.0750 | 3 |

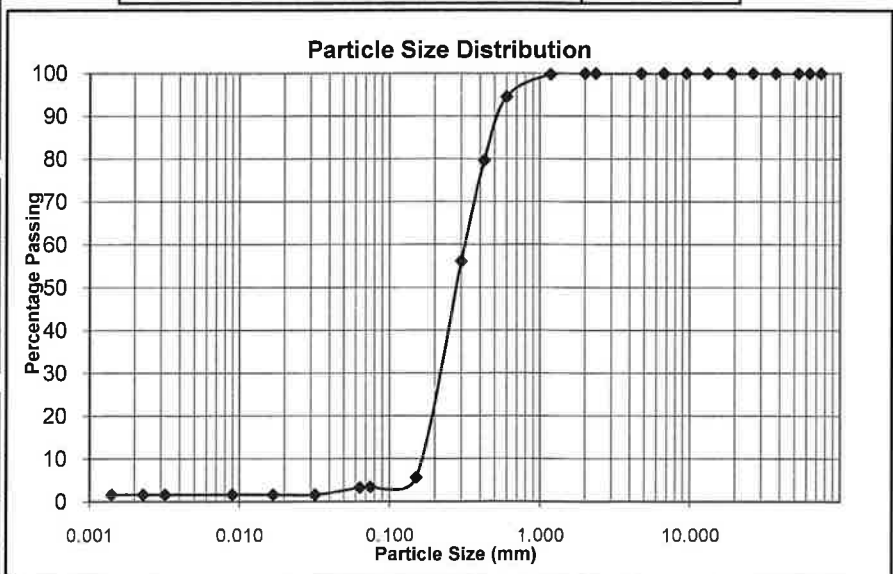
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : dark yellow sand
POSITION : KB 34 @ 3.45-4.50m

SAMPLE NO. : 10827
CLIENT SAMPLE NO. :

| Sieve Analysis | | Percent Passing |
|-----------------|-------|-----------------|
| SIEVE SIZE (mm) | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 91 |
| 0.300 | 72 | |
| 0.150 | 30 | |
| 0.0750 | 2 | |

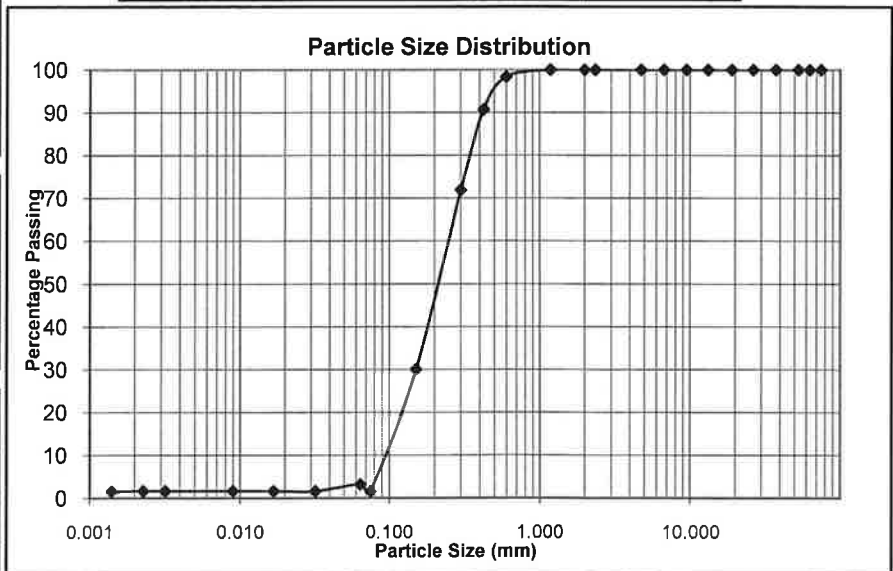
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | <i>TMH1</i> |
|--|-------------|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

CLIENT: SRK
P.O Box 6824
Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 34 @ 10.95-12.00m

SAMPLE NO. : 10828
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 99 |
| | 0.425 | 95 |
| | 0.300 | 83 |
| | 0.150 | 38 |
| | 0.0750 | 3 |

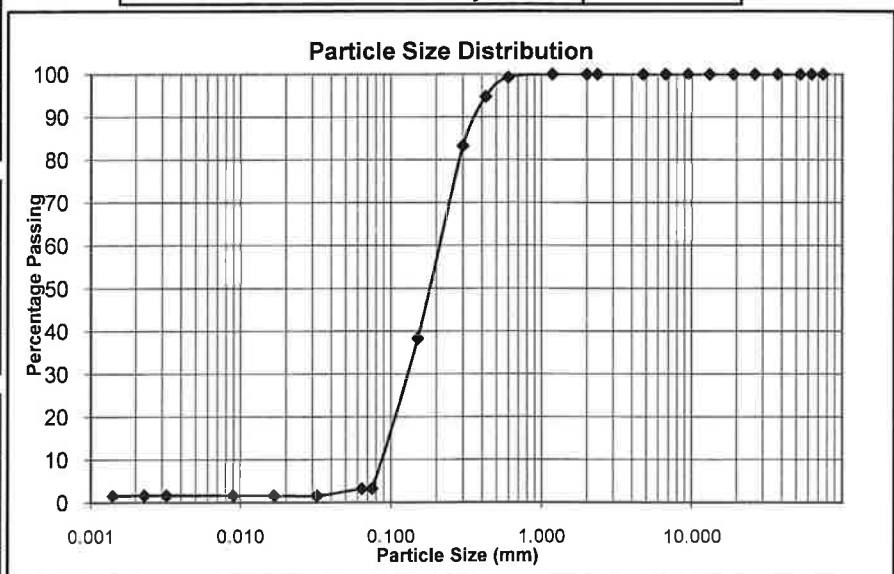
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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CLIENT: SRK
P.O Box 6824
Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown & yellow sand
POSITION : KB 34 @ 12.00-12.45m

SAMPLE NO. : 10829
CLIENT SAMPLE NO. :

| Sieve Analysis | Percent Passing |
|----------------|-----------------|
| 75.00 | |
| 63.00 | |
| 53.00 | |
| 37.50 | |
| 26.50 | |
| 19.00 | |
| 13.20 | |
| 9.50 | |
| 6.70 | |
| 4.75 | |
| 2.36 | 100 |
| 2.00 | 99 |
| 1.18 | 91 |
| 0.600 | 17 |
| 0.425 | 10 |
| 0.300 | 10 |
| 0.150 | 8 |
| 0.0750 | 3 |

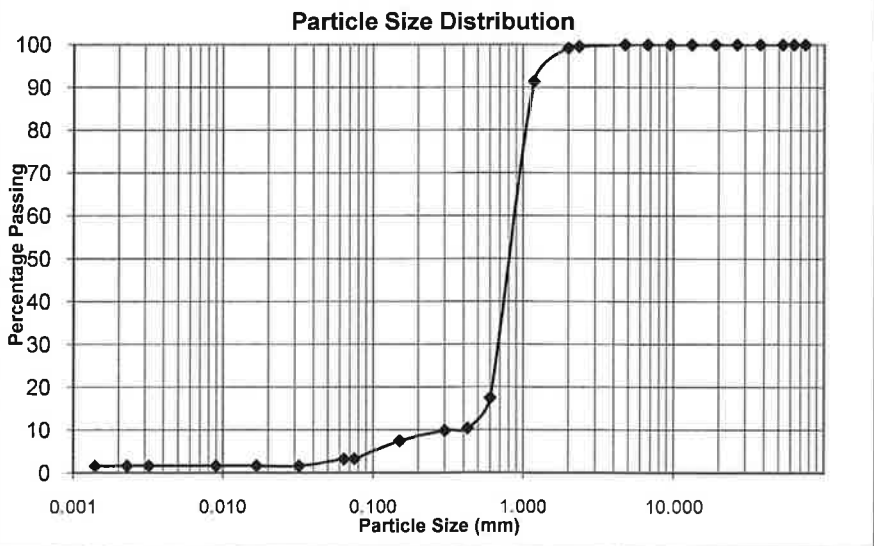
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|--|
| Liquid Limit | |
| Plastic Index | |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | <i>TMH1</i> |
|--|-------------|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : olive grey sand
POSITION : KB 34 @ 16.95-18.00m

SAMPLE NO. : 10830
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 89 |
| | 0.425 | 68 |
| | 0.300 | 55 |
| | 0.150 | 32 |
| | 0.0750 | 2 |

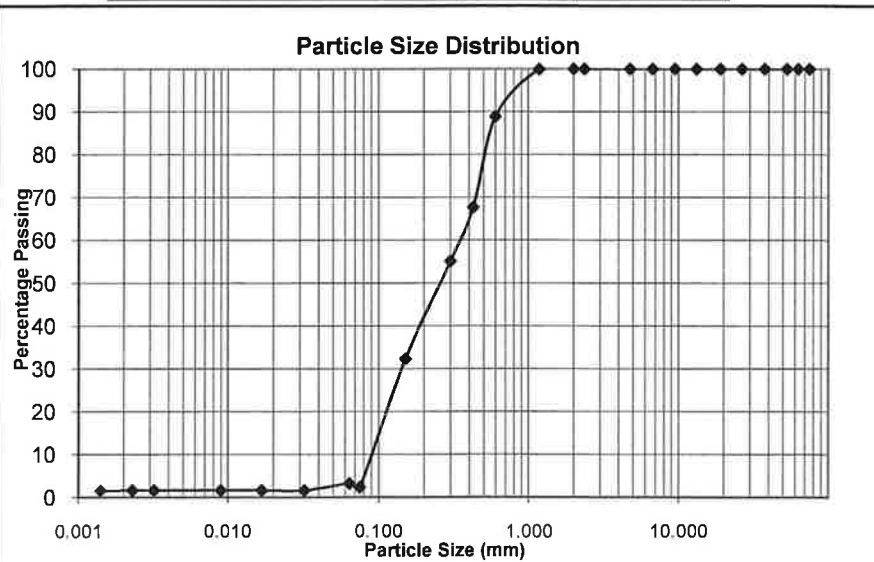
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 98 |
| Silt : Percentage - 0.075mm and + 0.002mm | 0 |
| Clay : Percentage - 0.002mm | 2 |

CLIENT: SRK
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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : olive sand
POSITION : KB 34 @ 18.00-18.45m

SAMPLE NO. : 10831
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | 100 |
| | 1.18 | 99 |
| | 0.600 | 76 |
| | 0.425 | 63 |
| | 0.300 | 56 |
| | 0.150 | 36 |
| | 0.0750 | 3 |

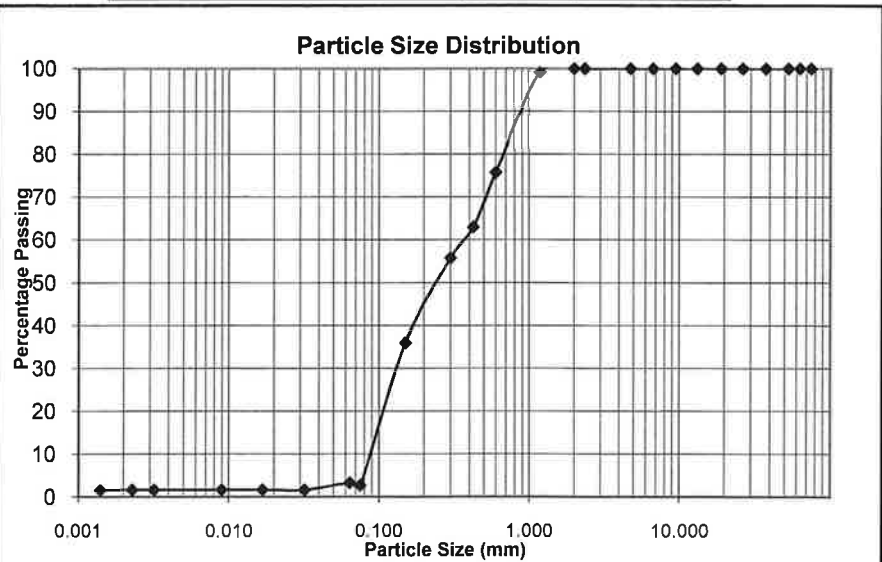
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 42 @ 0.00-1.50m

SAMPLE NO. : 10832
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 91 |
| | 0.300 | 72 |
| | 0.150 | 6 |
| | 0.0750 | 3 |

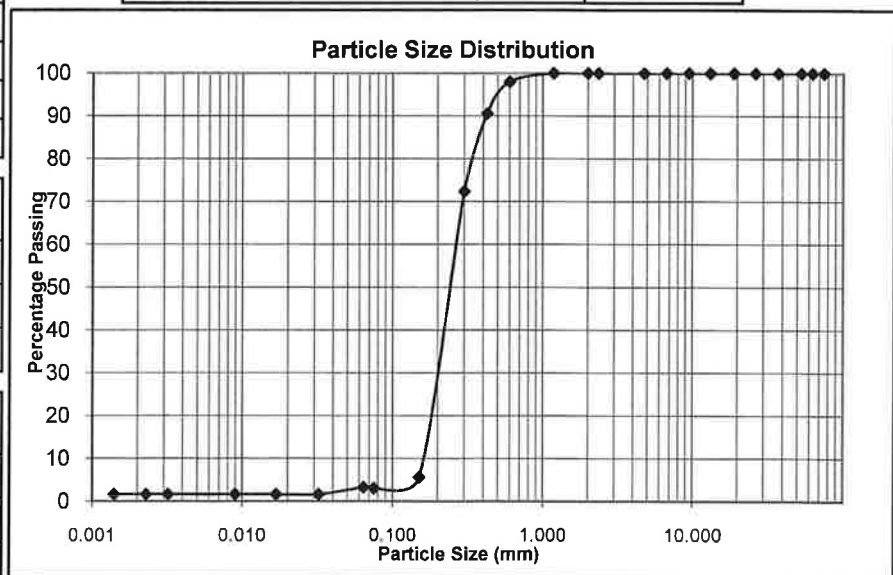
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0035 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|---|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light grey sand
POSITION : KB 42 @ 1.95-3.00m

SAMPLE NO. : 10833
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 97 |
| | 0.425 | 83 |
| | 0.300 | 59 |
| | 0.150 | 5 |
| | 0.0750 | 3 |

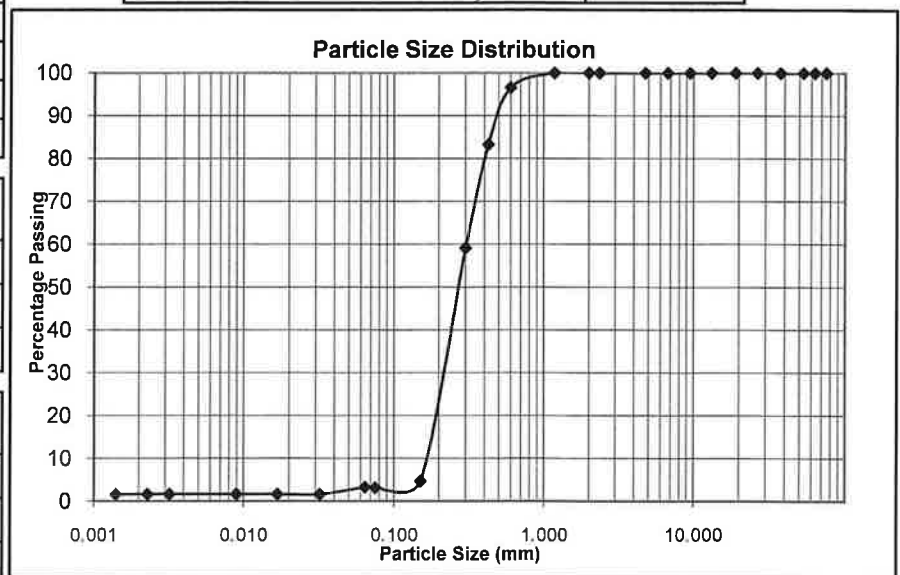
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

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8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 42 @ 9.45-10.50m

SAMPLE NO. : 10834
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 92 |
| | 0.300 | 74 |
| | 0.150 | 10 |
| | 0.0750 | 3 |

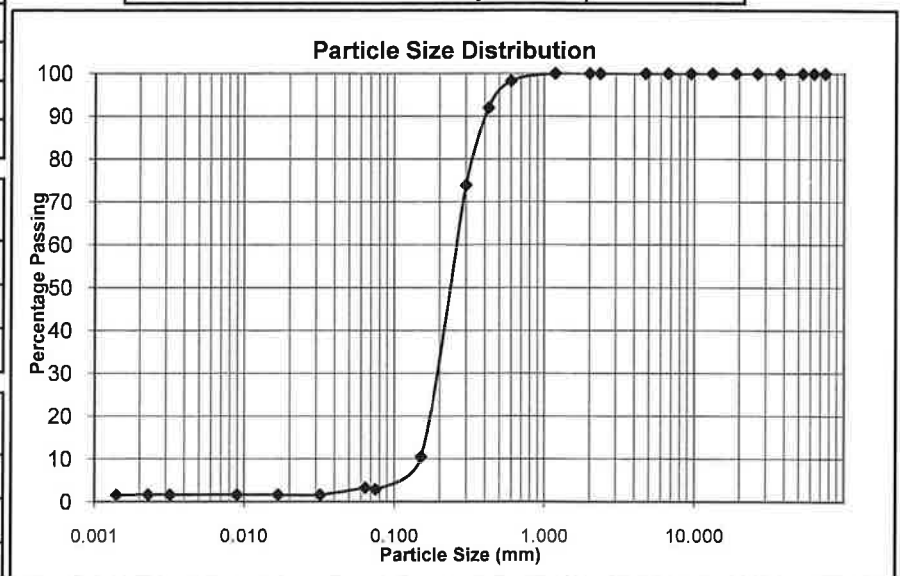
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

The above test results are pertinent to the samples received and tested only.

For Geoscience:

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 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 42 @ 16.50-16.95m

SAMPLE NO. : 10835
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 82 |
| | 0.425 | 62 |
| | 0.300 | 47 |
| | 0.150 | 19 |
| | 0.0750 | 3 |

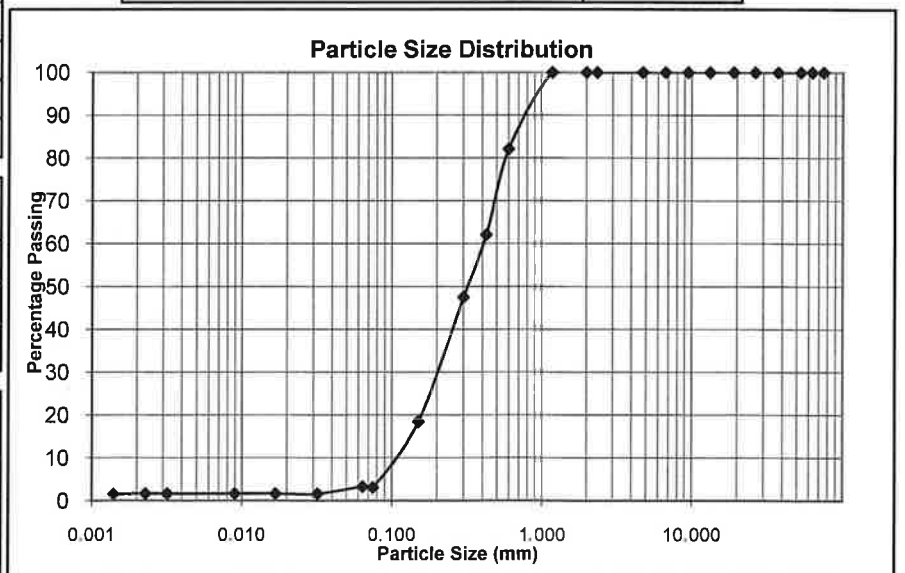
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| <i>Atterberg Limits :</i> <i>TMH1 A2, A3 & A4</i> | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| <i>MOD AASHTO ; C.B.R. :</i> <i>A7 & A8</i> | <i>TMH1</i> |
|--|-------------|
| MOD AASHTO (Kg/m ³) | |
| O.M.C. (%) | |
| C.B.R. @ 100% Comp. | |
| C.B.R. @ 98 % Comp. | |
| C.B.R. @ 95 % Comp. | |
| C.B.R. @ 93 % Comp. | |
| C.B.R. @ 90 % Comp. | |
| Swell (max) % | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

CLIENT: SRK
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Roggebaai
8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : light brown sand
POSITION : KB 42 @ 18.45-19.50m

SAMPLE NO. : 10836
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 96 |
| | 0.300 | 91 |
| | 0.150 | 48 |
| | 0.0750 | 3 |

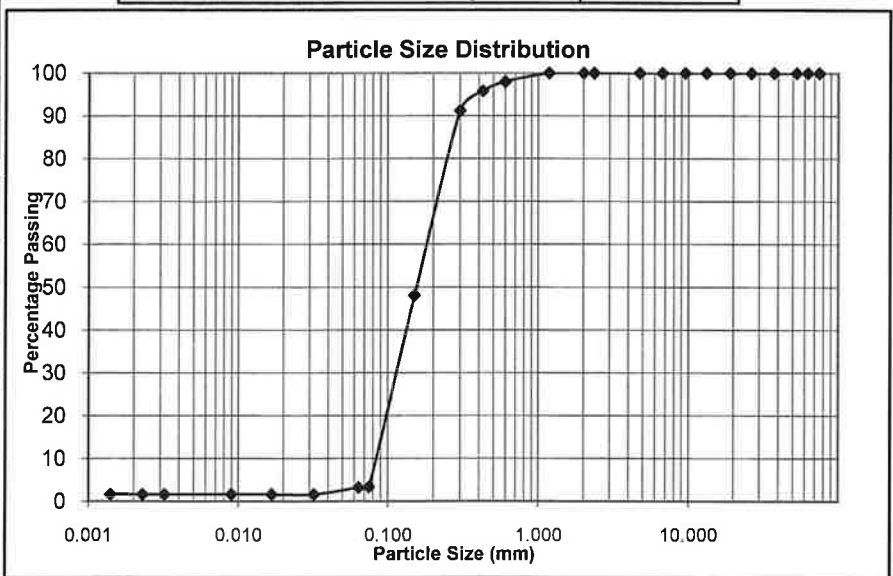
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0782 | 3 |
| 0.0395 | 2 |
| 0.0197 | 2 |
| 0.0102 | 2 |
| 0.0036 | 2 |
| 0.0025 | 2 |
| 0.0015 | 2 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
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|--------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%): | |
| pH: | |
| Conductivity mS/m: | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 97 |
| Silt : Percentage - 0.075mm and + 0.002mm | 1 |
| Clay : Percentage - 0.002mm | 2 |

CLIENT: SRK
 P.O Box 6824
 Roggebaai
 8012
ATT: John Brown

PROJECT: Koeberg
DATE: 17-07-2008
REF: L80626

ASTM D422 SIEVE ANALYSIS

DESCRIPTION : olive sand
POSITION : KB 42 @ 25.54-27.04m

SAMPLE NO. : 10837
CLIENT SAMPLE NO. :

| Sieve Analysis | Sieve Size (mm) | Percent Passing |
|----------------|-----------------|-----------------|
| | 75.00 | |
| | 63.00 | |
| | 53.00 | |
| | 37.50 | |
| | 26.50 | |
| | 19.00 | |
| | 13.20 | |
| | 9.50 | |
| | 6.70 | |
| | 4.75 | |
| | 2.36 | |
| | 2.00 | |
| | 1.18 | 100 |
| | 0.600 | 98 |
| | 0.425 | 94 |
| | 0.300 | 87 |
| | 0.150 | 44 |
| | 0.0750 | 11 |

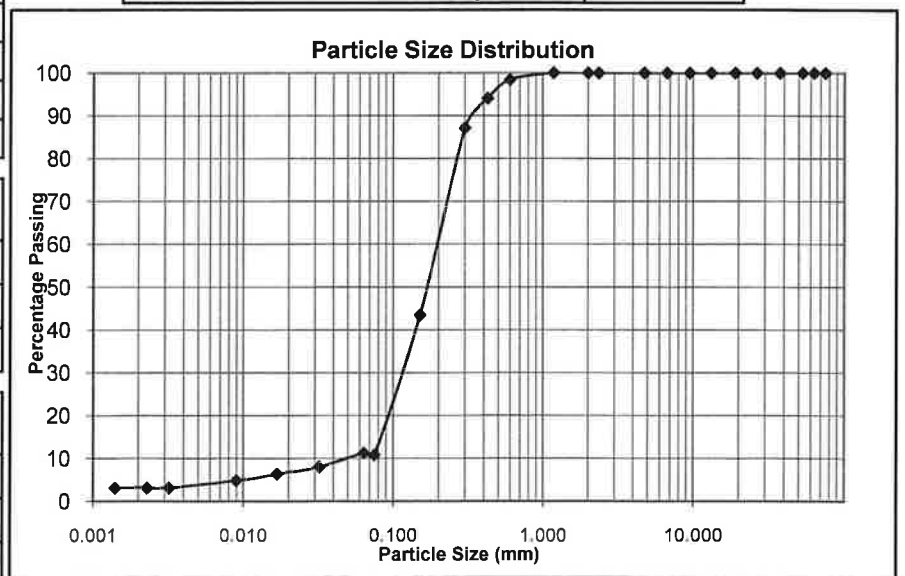
| Hydrometer Analysis | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| 0.0769 | 11 |
| 0.0388 | 8 |
| 0.0194 | 6 |
| 0.0101 | 5 |
| 0.0035 | 3 |
| 0.0025 | 3 |
| 0.0014 | 3 |

| SCS Dispersion Test | |
|---------------------------|-----------------------------------|
| Diameter of particle (mm) | Percentage of soil suspension (%) |
| | |
| | |
| | |
| | |
| | |
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| | |
| | |

| | |
|---------------------------------------|--|
| Specific Gravity: | |
| Initial Moisture Content (%) : | |
| pH : | |
| Conductivity mS/m : | |

| Atterberg Limits : TMH1 A2, A3 & A4 | |
|--|-----|
| Liquid Limit | |
| Plastic Index | N-P |
| Linear Shrinkage | |

| MOD AASHTO ; C.B.R. : A7 & A8 | | TMH1 |
|----------------------------------|--|------|
| MOD AASHTO (Kg/m ³) | | |
| O.M.C. (%) | | |
| C.B.R. @ 100% Comp. | | |
| C.B.R. @ 98 % Comp. | | |
| C.B.R. @ 95 % Comp. | | |
| C.B.R. @ 93 % Comp. | | |
| C.B.R. @ 90 % Comp. | | |
| Swell (max) % | | |



| Tabulated Summary | Percentage |
|--|------------|
| Gravel : Percentage - 4.75 mm | 0 |
| Sand : Percentage - 4.75mm and + 0.075mm | 89 |
| Silt : Percentage - 0.075mm and + 0.002mm | 8 |
| Clay : Percentage - 0.002mm | 3 |