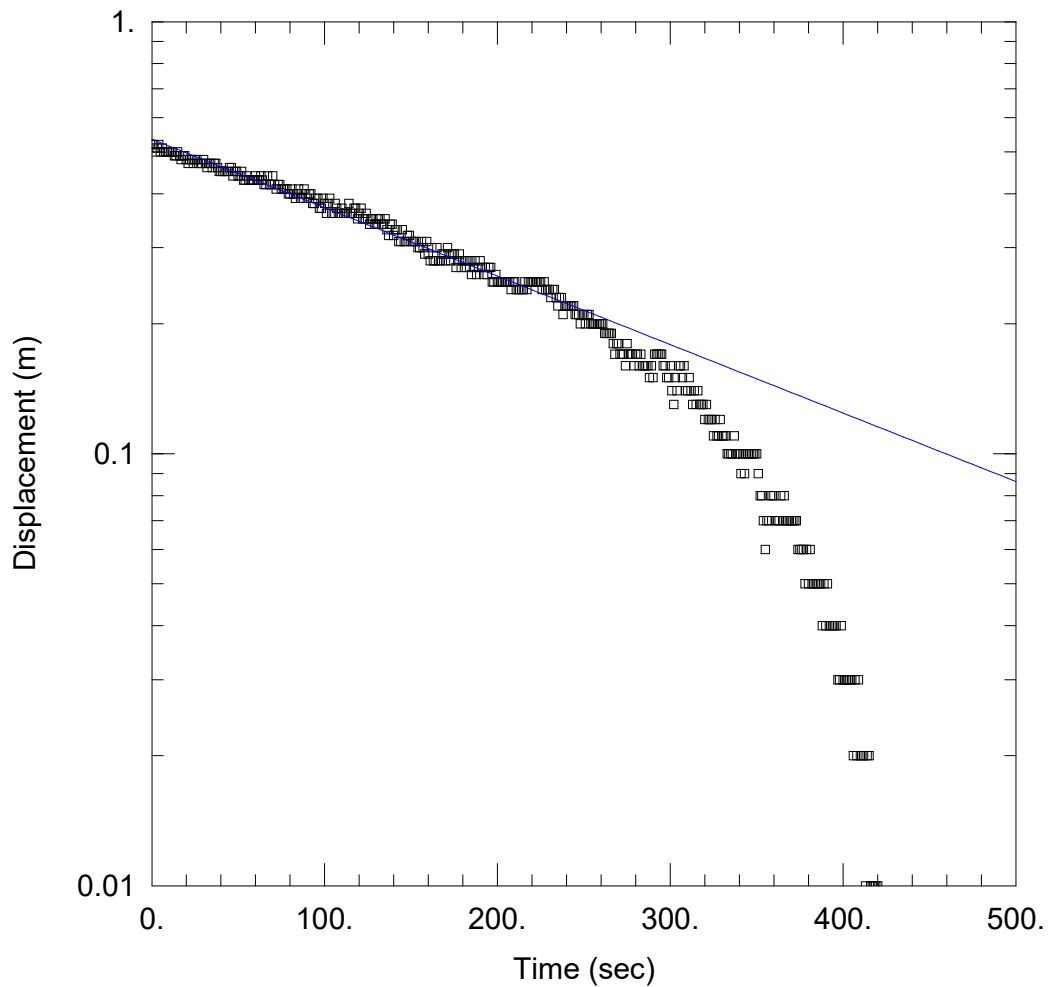


APPENDIX C

Hydraulic Testing Results and Analysis



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_7.9m.aqt

Date: 03/17/26

Time: 15:05:36

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_7.9m

Test Date: 27/07/2025

AQUIFER DATA

Saturated Thickness: 8. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1001-D_7.9m)

Initial Displacement: 0.52 m

Total Well Penetration Depth: 7.9 m

Casing Radius: 0.025 m

Static Water Column Height: 0.83 m

Screen Length: 7.8 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

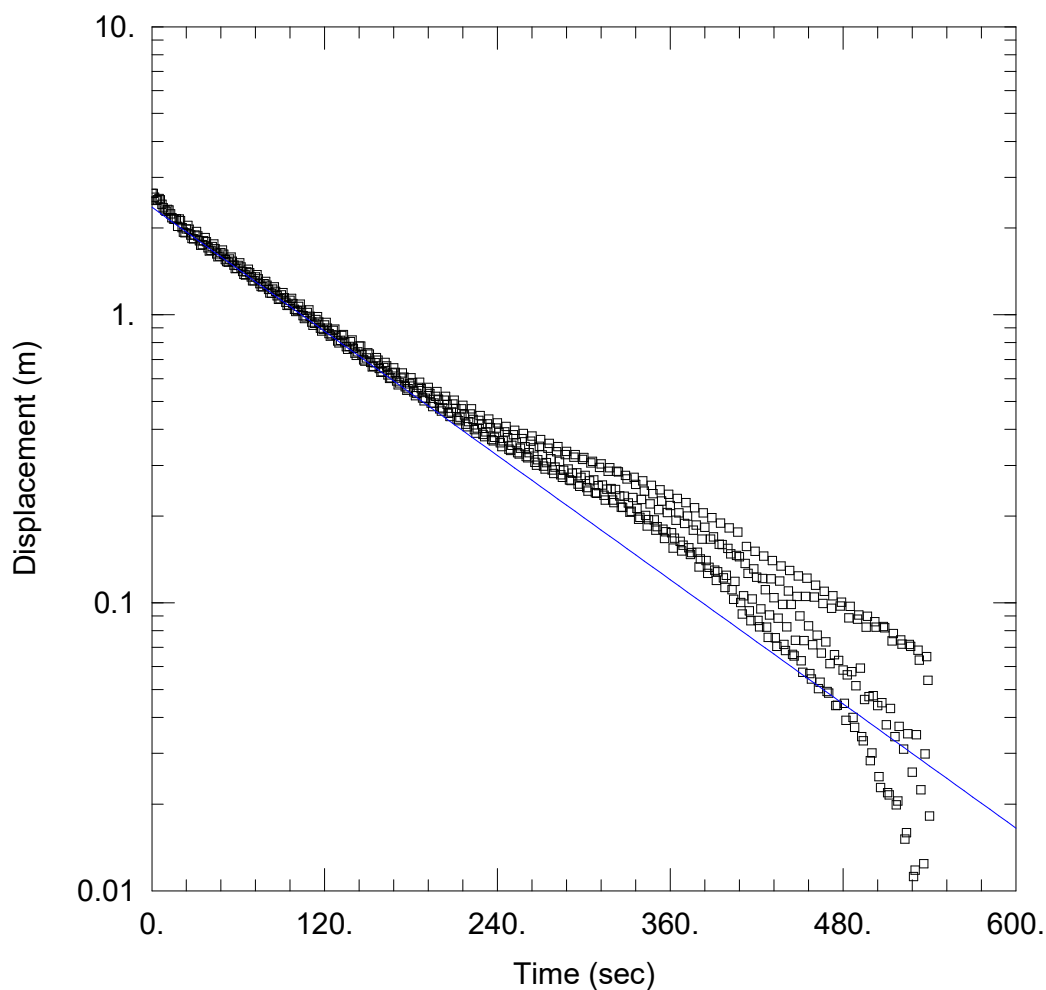
SOLUTION

Aquifer Model: Unconfined

$K = 0.05658$ m/day

Solution Method: Bouwer-Rice

$y_0 = 0.5349$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_25.6m.aqt

Date: 03/17/26

Time: 15:04:37

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_25.6m

Test Date: 29/07/2025

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1001-D_25.6m)

Initial Displacement: 2.64 m

Total Well Penetration Depth: 18.1 m

Casing Radius: 0.025 m

Static Water Column Height: 2.72 m

Screen Length: 18. m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

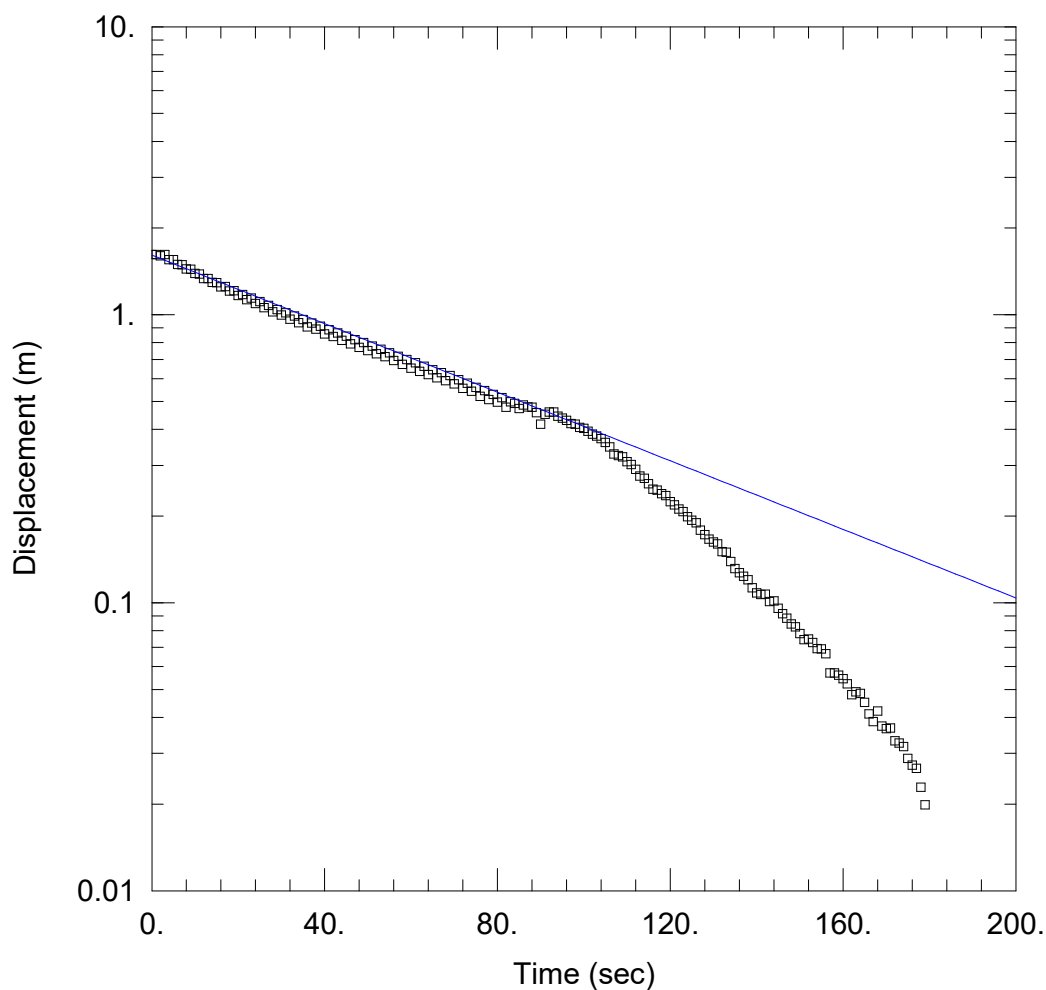
SOLUTION

Aquifer Model: Unconfined

K = 0.06324 m/day

Solution Method: Bouwer-Rice

y0 = 2.365 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_46m.aqt

Date: 03/17/26

Time: 15:07:12

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_46m

Test Date: 01/08/2025

AQUIFER DATA

Saturated Thickness: 61. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1001-D_46m)

Initial Displacement: 1.62 m

Total Well Penetration Depth: 46.1 m

Casing Radius: 0.025 m

Static Water Column Height: 1.65 m

Screen Length: 46. m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

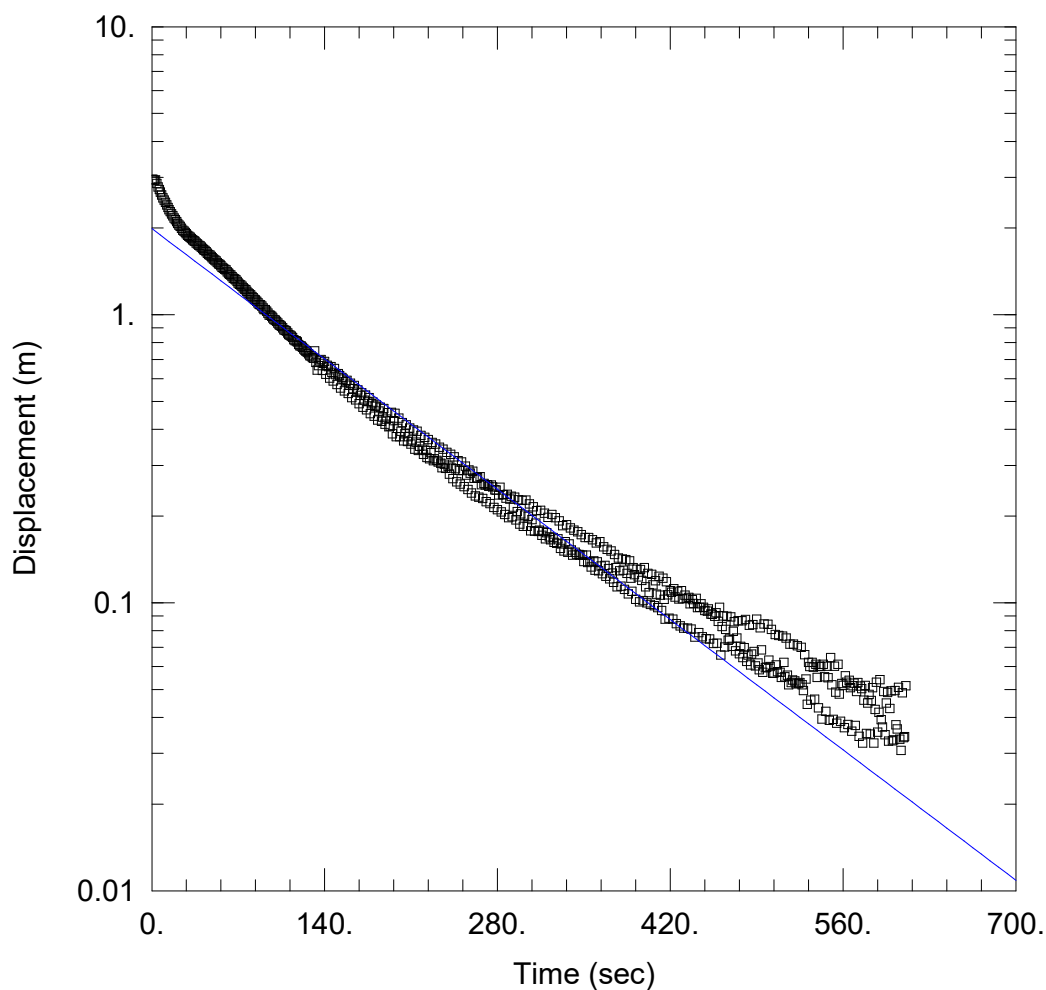
SOLUTION

Aquifer Model: Unconfined

K = 0.04914 m/day

Solution Method: Bouwer-Rice

y0 = 1.612 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_53m_v2.aqt

Date: 03/17/26

Time: 15:11:24

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_53m

Test Date: 01/08/2025

AQUIFER DATA

Saturated Thickness: 49.88 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1001-D_53m)

Initial Displacement: 2.953 m

Static Water Column Height: 3.1 m

Total Well Penetration Depth: 6.1 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

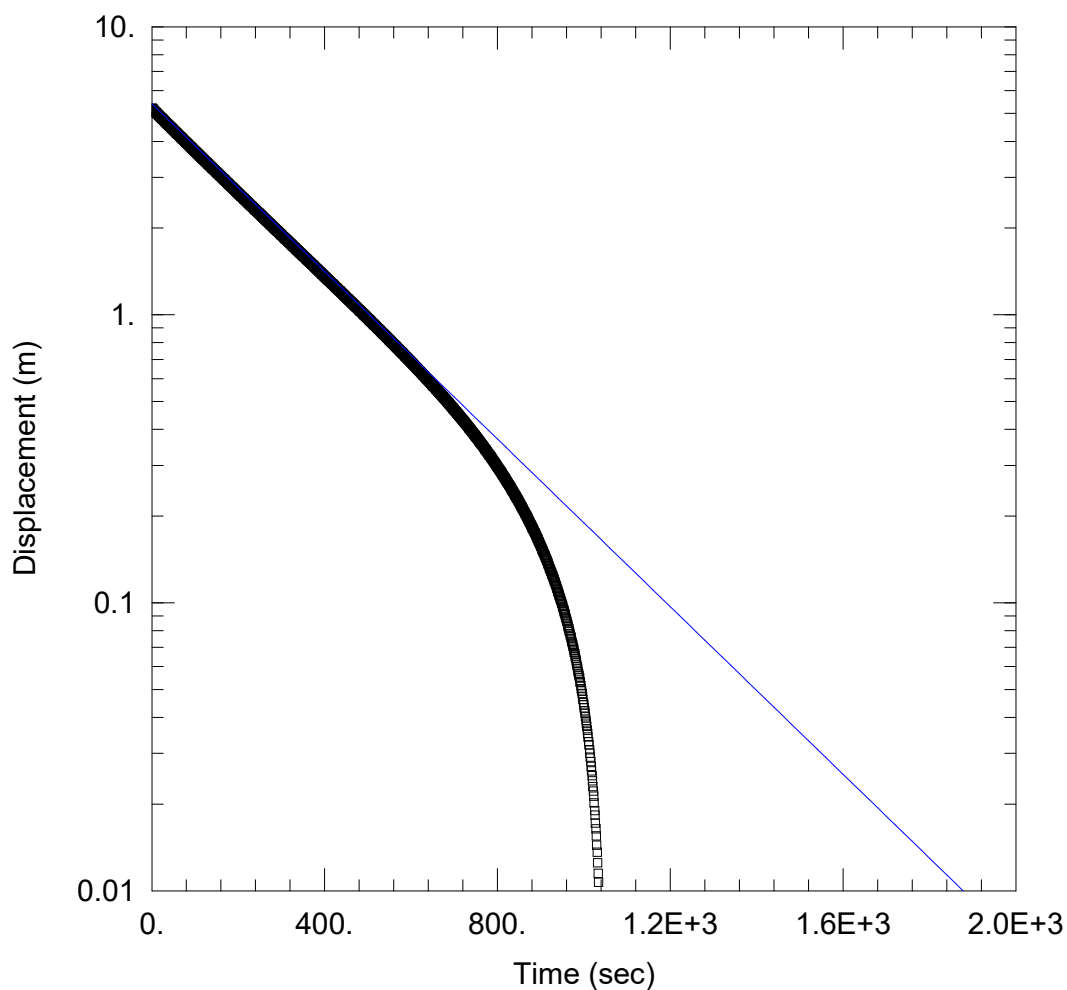
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.1274$ m/day

$y_0 = 1.992$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_55.34m.aqt

Date: 03/17/26

Time: 15:16:33

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_55.43m

Test Date: 01/08/2025

AQUIFER DATA

Saturated Thickness: 61. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1001-D_55.34m)

Initial Displacement: 5.218 m

Static Water Column Height: 5.219 m

Total Well Penetration Depth: 55.34 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

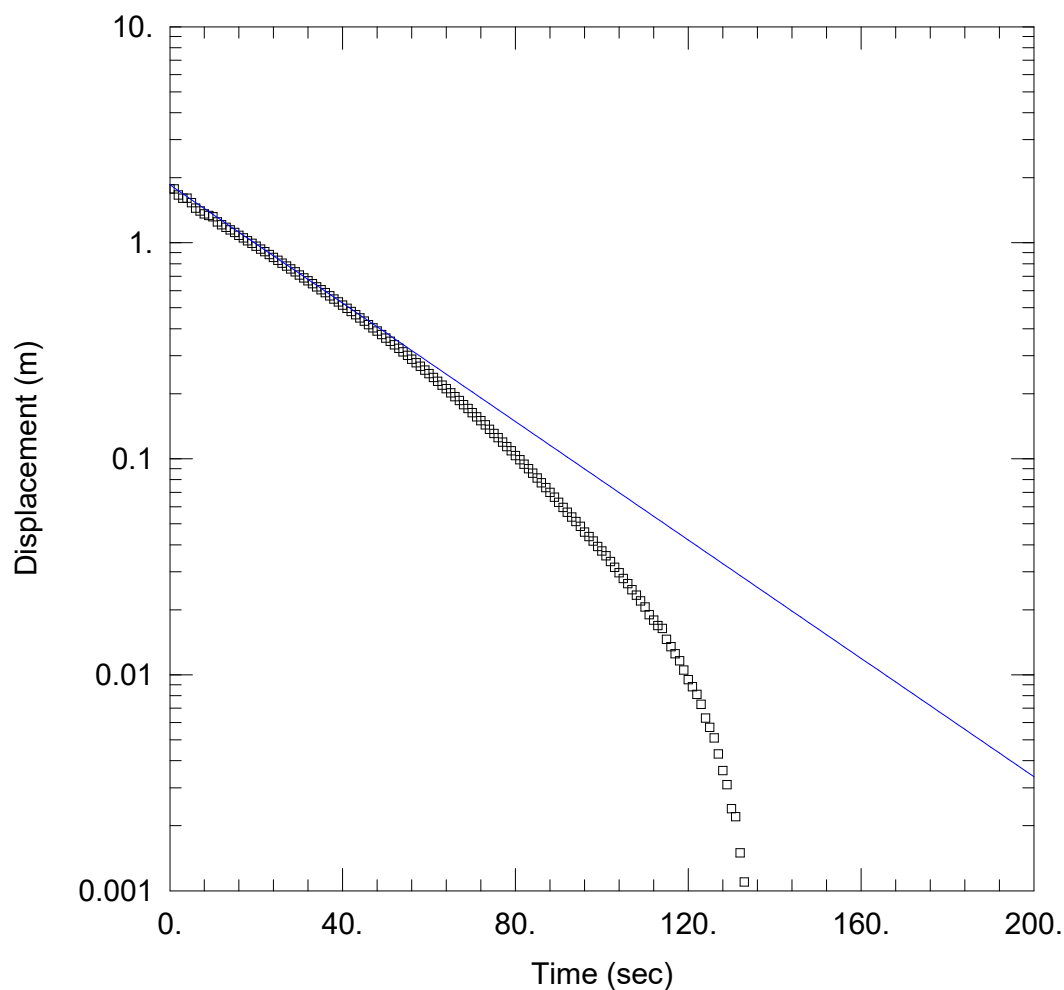
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 0.07471 m/day

y0 = 5.407 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-D_61m.aqt

Date: 03/17/26

Time: 15:14:32

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-D_61m

Test Date: 02/08/2025

AQUIFER DATA

Saturated Thickness: 61. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1001-D_61m)

Initial Displacement: 1.775 m

Static Water Column Height: 1.9 m

Total Well Penetration Depth: 61. m

Screen Length: 60.9 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

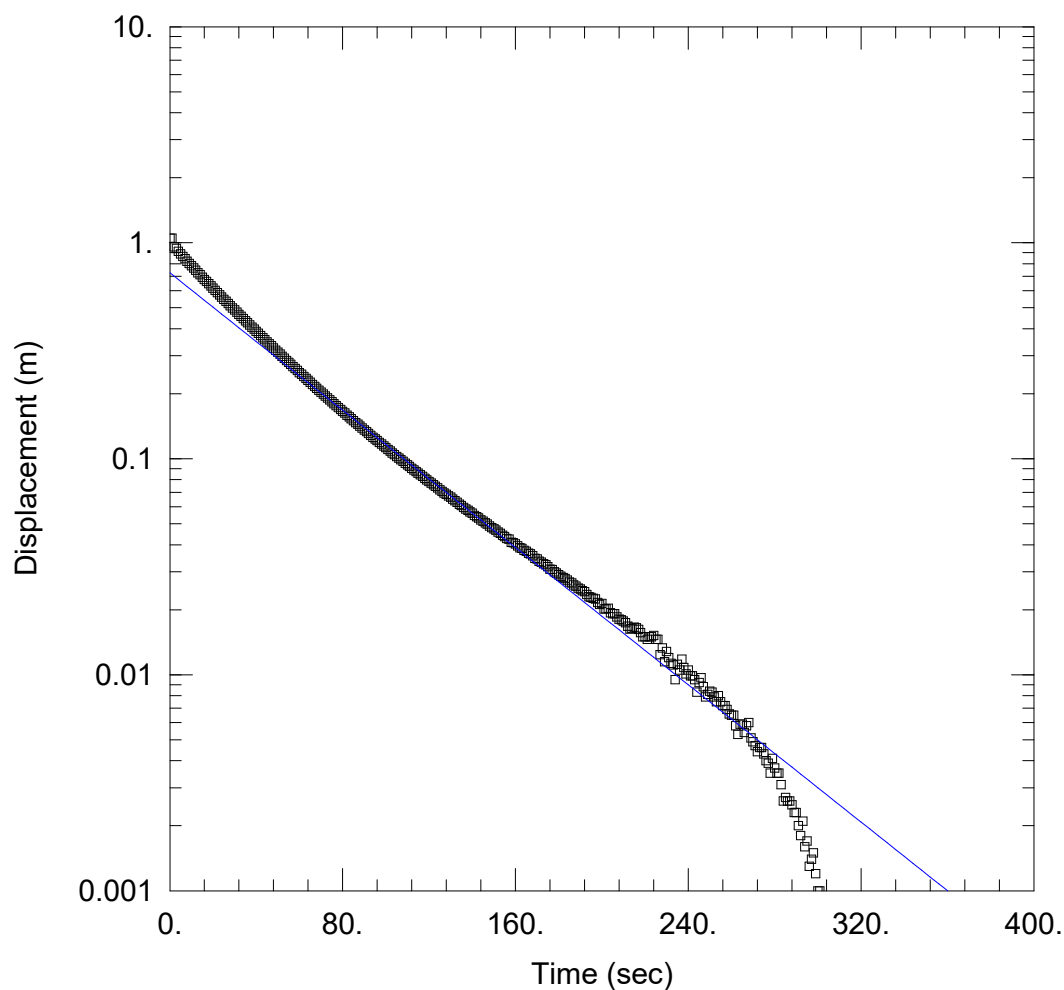
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.09461 m/day

y0 = 1.855 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1001-S_14.3m.aqt

Date: 03/17/26

Time: 15:20:18

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1001-S_14.3m

Test Date: 10/08/2025

AQUIFER DATA

Saturated Thickness: 13.87 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1001-S_14.3m)

Initial Displacement: 1.048 m

Static Water Column Height: 1.93 m

Total Well Penetration Depth: 14.3 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

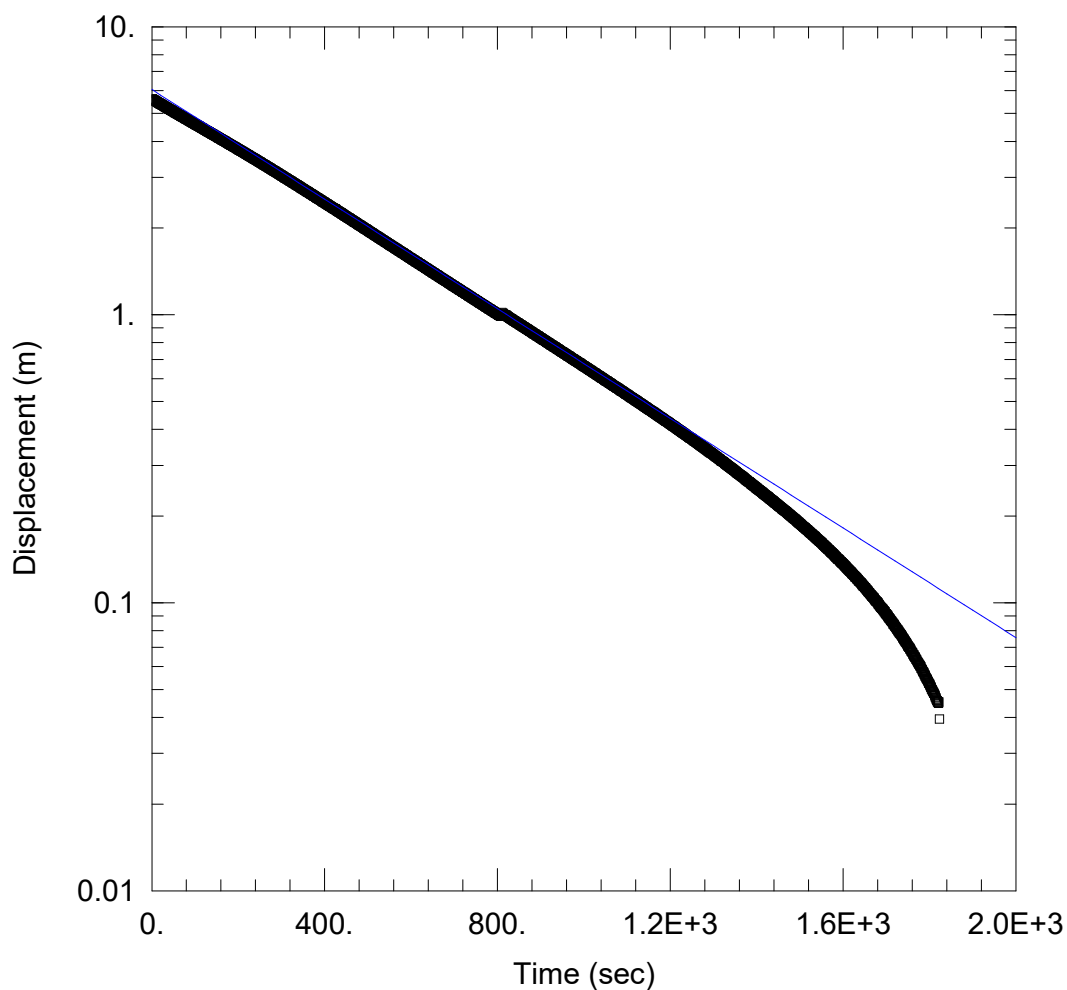
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.3973 m/day

y0 = 0.7261 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-D_53.41m.aqt

Date: 03/17/26

Time: 15:27:37

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-D_53.41m

Test Date: 26/08/2025

AQUIFER DATA

Saturated Thickness: 51.38 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1002-D_53.41m)

Initial Displacement: 5.614 m

Total Well Penetration Depth: 53.41 m

Casing Radius: 0.025 m

Static Water Column Height: 9.02 m

Screen Length: 6. m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

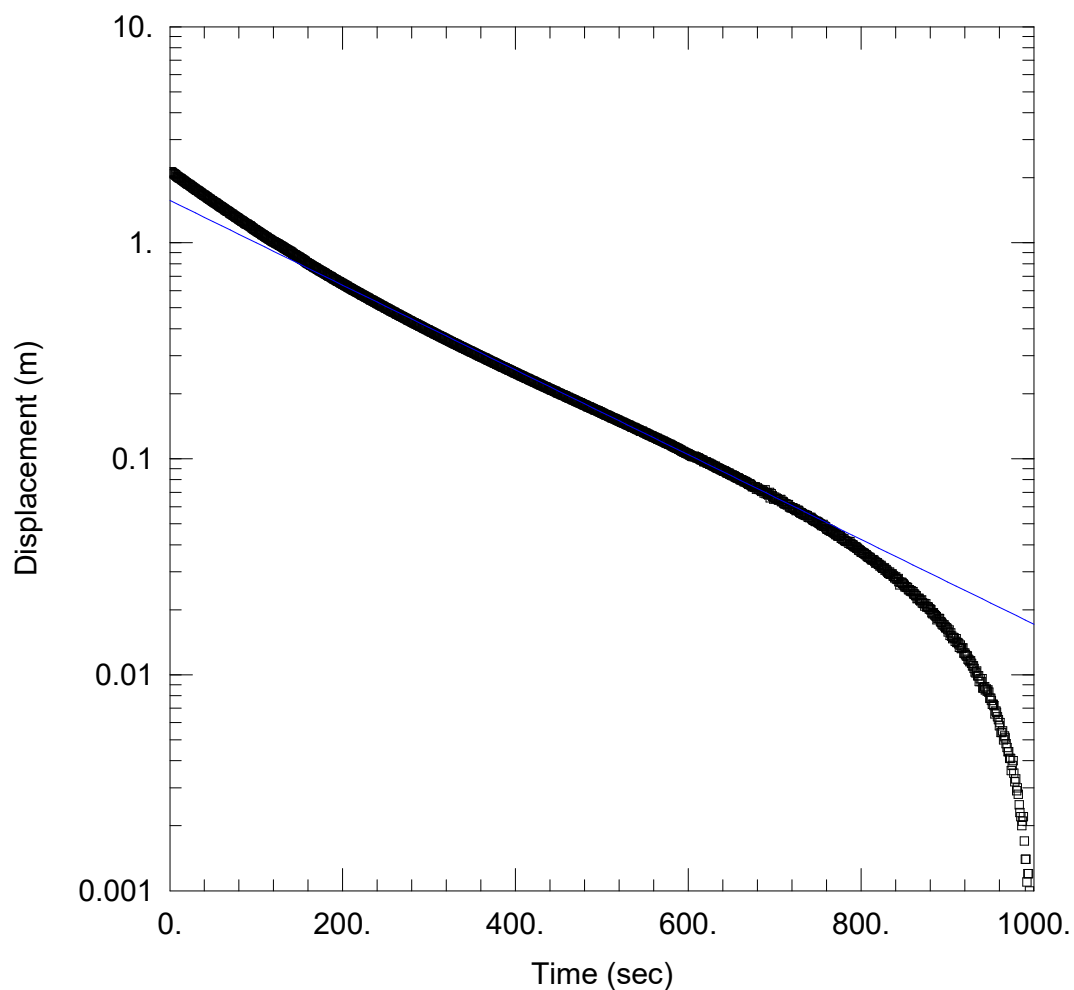
SOLUTION

Aquifer Model: Confined

K = 0.05565 m/day

Solution Method: Bouwer-Rice

y0 = 6.057 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-D_53.41m_v2.aqt

Date: 03/17/26

Time: 15:40:10

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-D_53.41m_RHT

Test Date: 26/08/2025

AQUIFER DATA

Saturated Thickness: 51.31 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1002-D_53.41m)

Initial Displacement: 2.128 m

Static Water Column Height: 9.09 m

Total Well Penetration Depth: 53.41 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

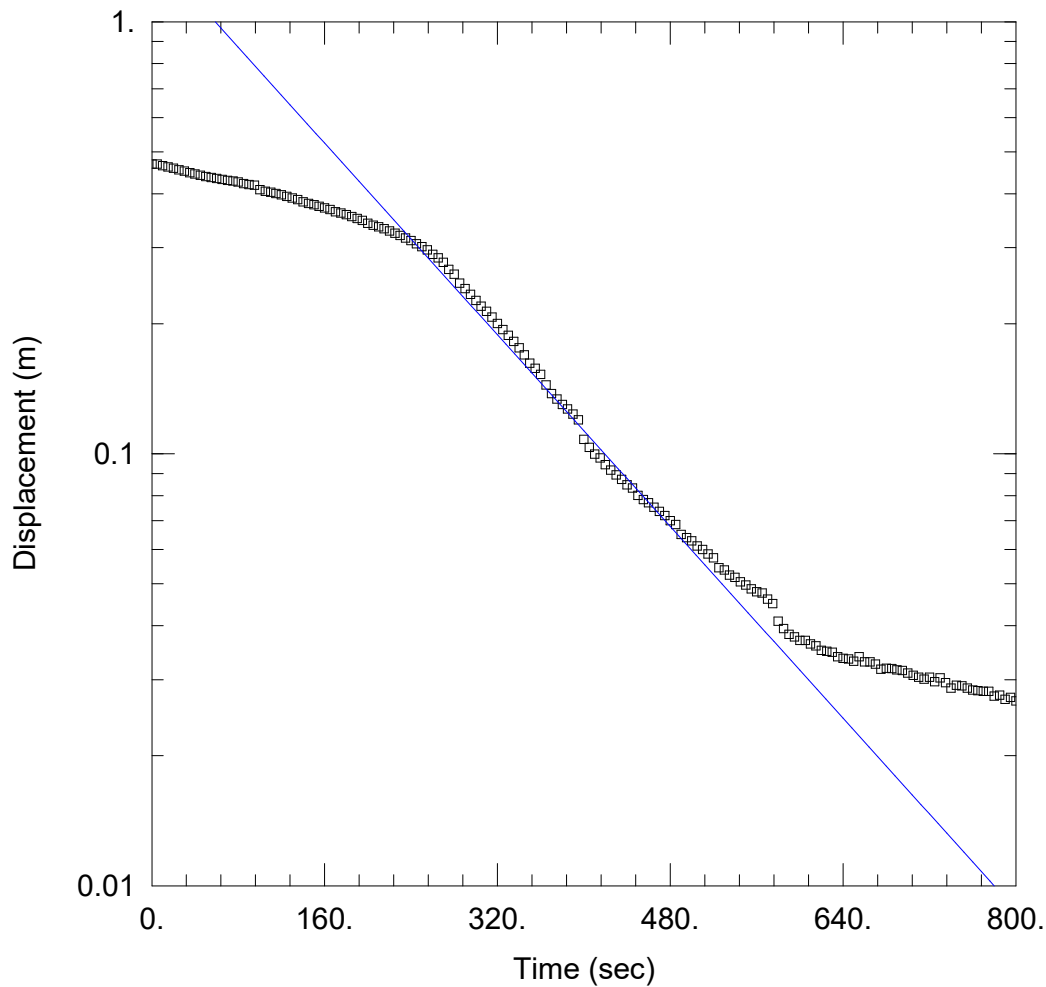
SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

$K = 0.1148$ m/day

$y_0 = 1.572$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-H2_0.95m_v2.aqt

Date: 03/17/26

Time: 15:22:10

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-H2_0.95m

Test Date: 27/09/2025

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1002-H2_0.95m)

Initial Displacement: 0.4684 m

Static Water Column Height: 0.507 m

Total Well Penetration Depth: 0.95 m

Screen Length: 0.95 m

Casing Radius: 0.075 m

Well Radius: 0.075 m

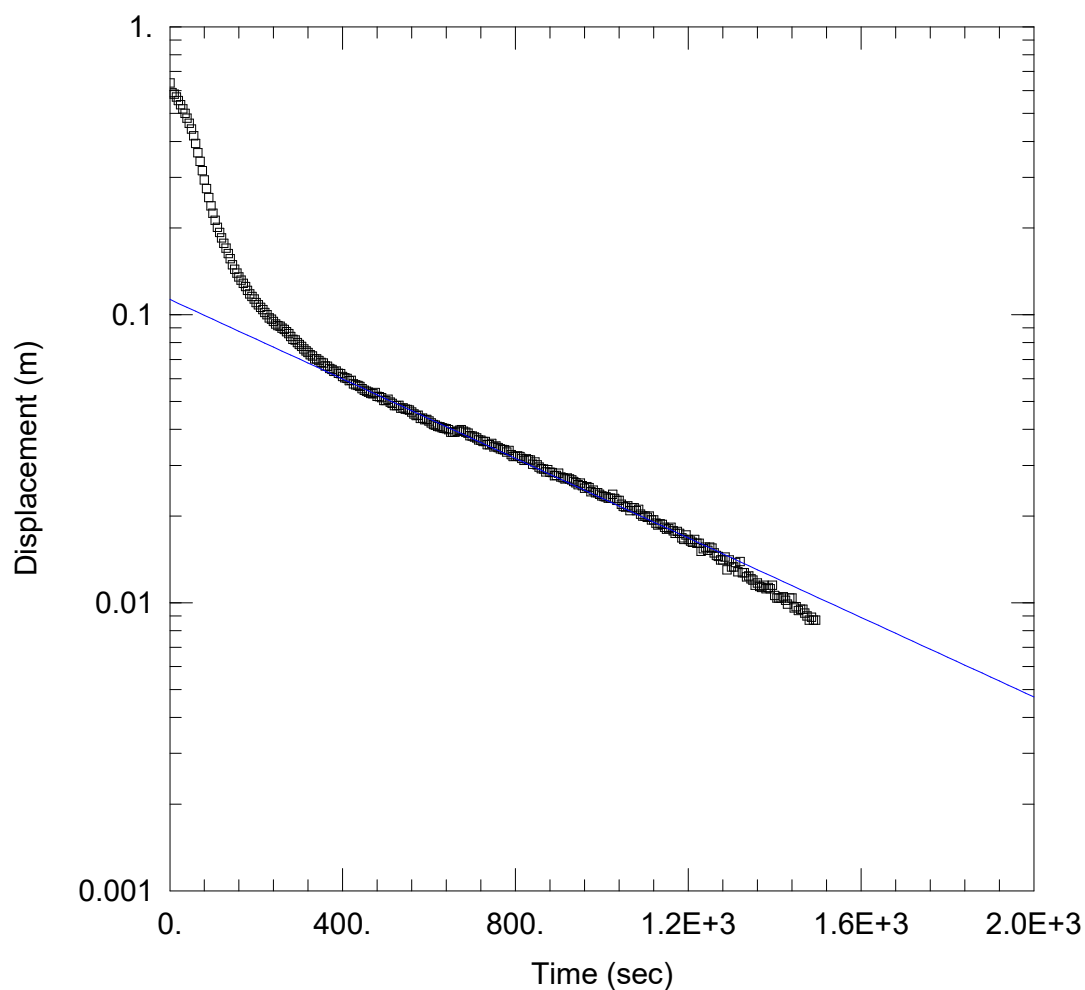
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 2.294$ m/day

$y_0 = 1.455$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-H3_1m_v2.aqt

Date: 03/17/26

Time: 15:23:48

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-H3_1m

Test Date: 27/09/2025

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1002-H3_1m)

Initial Displacement: 0.6387 m

Static Water Column Height: 0.6679 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

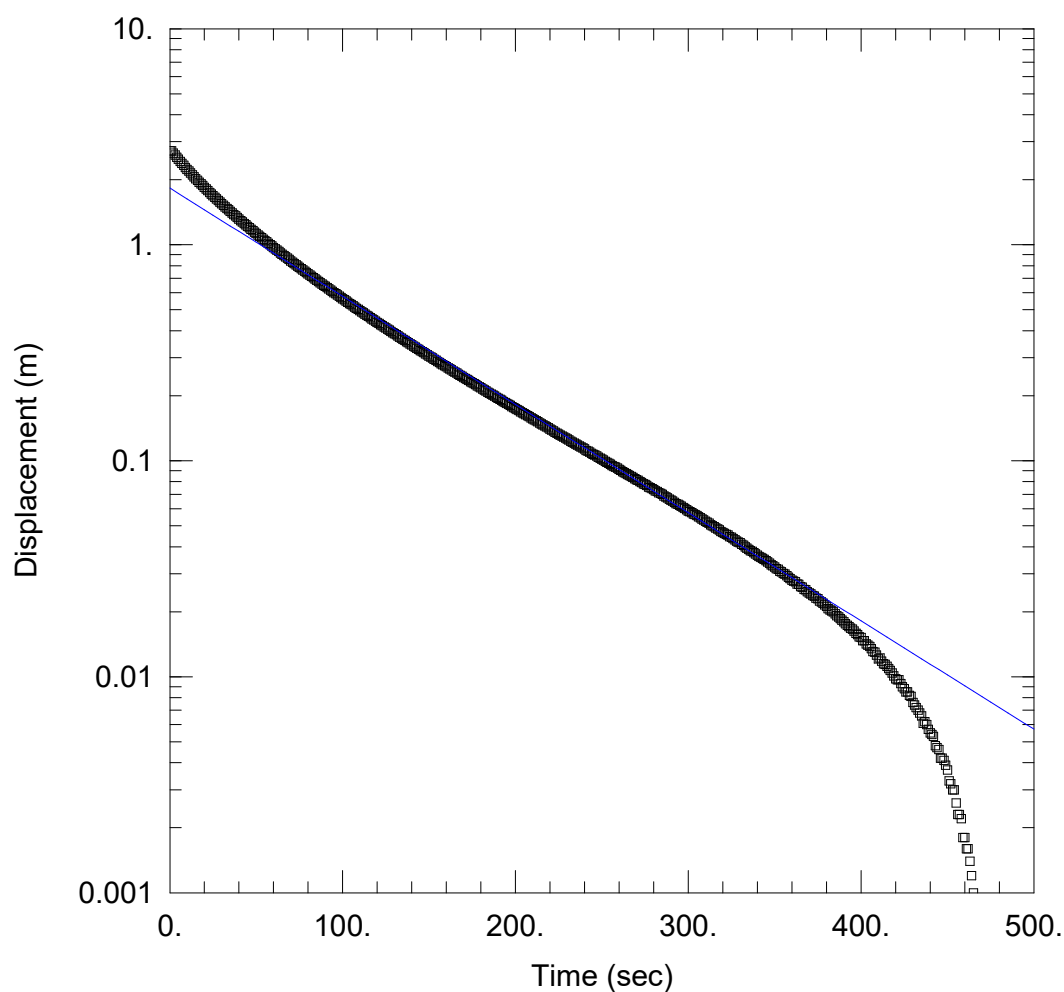
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.5574 m/day

y0 = 0.1131 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-S_17.48m_v2.aqt

Date: 03/17/26

Time: 15:30:58

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-S_17.48m

Test Date: 27/09/2025

AQUIFER DATA

Saturated Thickness: 17.39 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1002-S_17.48m)

Initial Displacement: 2.723 m

Static Water Column Height: 2.74 m

Total Well Penetration Depth: 17.48 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

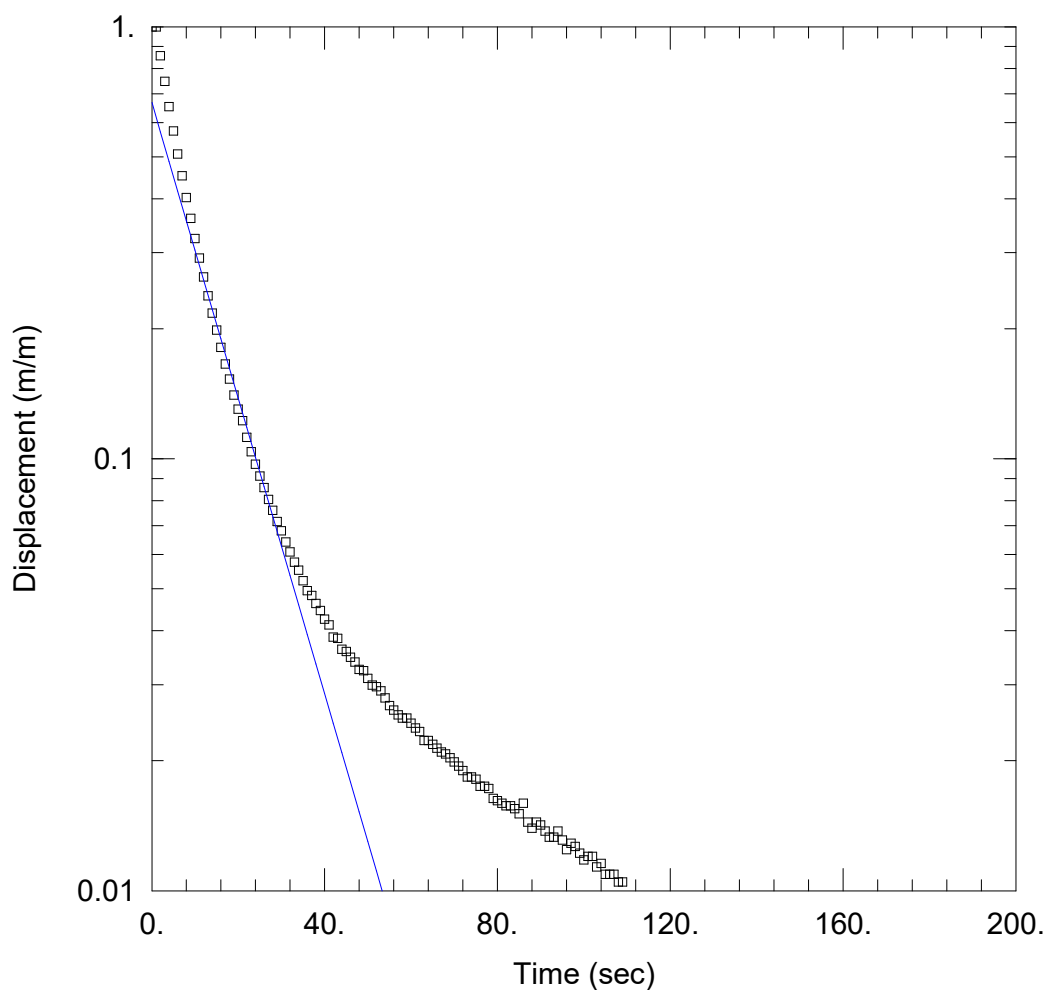
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.2571$ m/day

$y_0 = 1.83$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1002-S_17.48m.aqt

Date: 03/17/26

Time: 15:34:19

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1002-S_17.48m_RHT

Test Date: 27/09/2025

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1002-S_17.48m)

Initial Displacement: 0.4581 m

Static Water Column Height: 3.307 m

Total Well Penetration Depth: 17.48 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

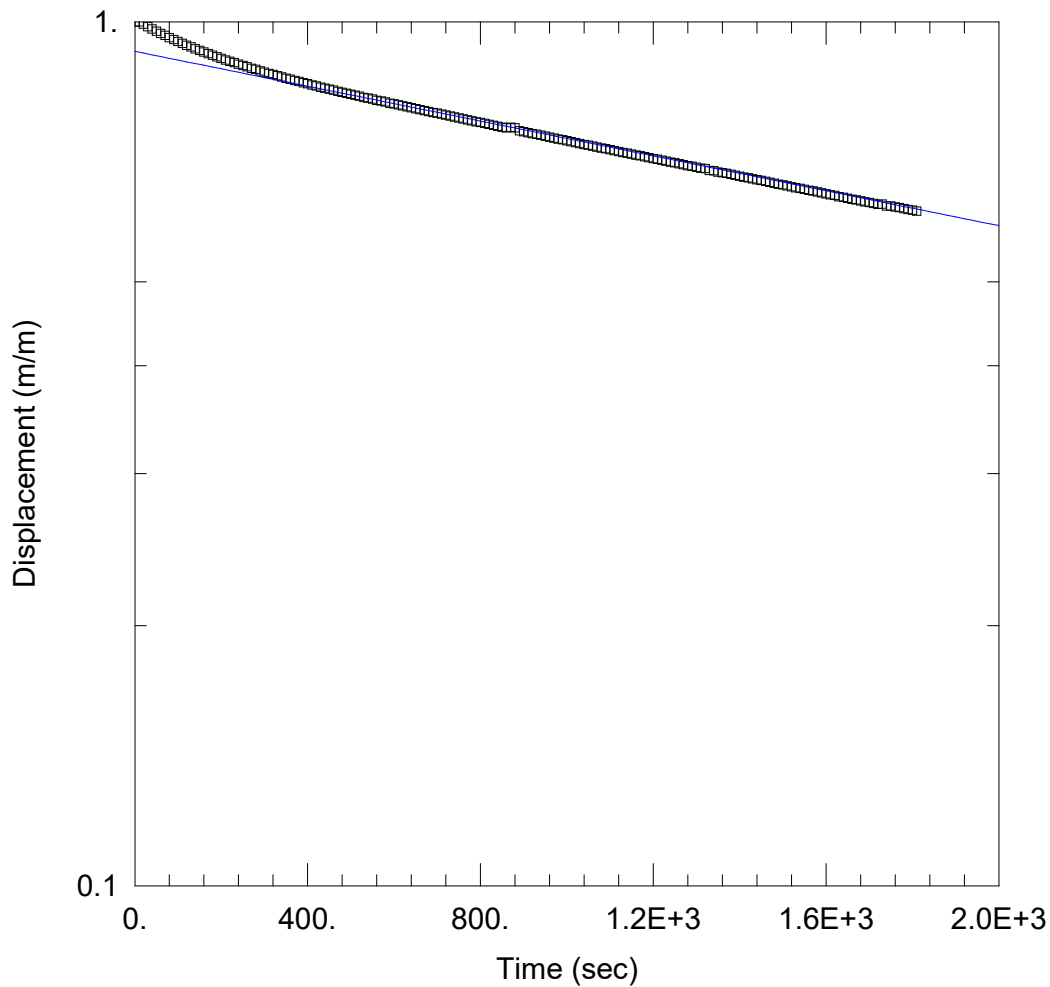
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 1.591 m/day

y0 = 0.3061 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_44.3m(3)_v2.aqt

Date: 03/17/26

Time: 15:54:22

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_44.3m

Test Date: 13/12/2025

AQUIFER DATA

Saturated Thickness: 26.78 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-D_44.3m(3))

Initial Displacement: 12.28 m

Static Water Column Height: 26.78 m

Total Well Penetration Depth: 44.3 m

Screen Length: 39.06 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

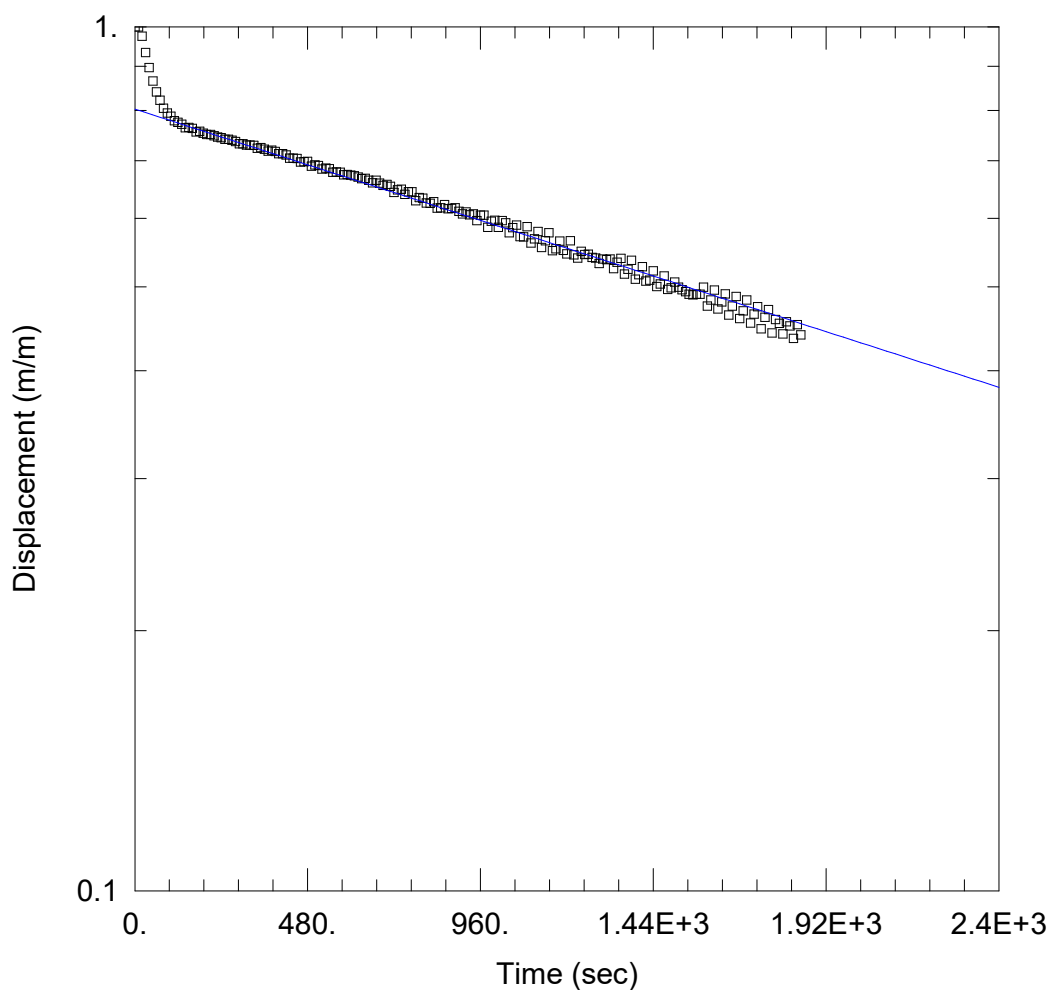
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.001461 m/day

y0 = 11.35 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_58.9m(3)_v2.aqt

Date: 03/17/26

Time: 15:56:13

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_58.92

Test Date: 13/12/2025

AQUIFER DATA

Saturated Thickness: 41.38 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-D_58.9m(3))

Initial Displacement: 14.2 m

Total Well Penetration Depth: 58.9 m

Casing Radius: 0.025 m

Static Water Column Height: 41.38 m

Screen Length: 55.58 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

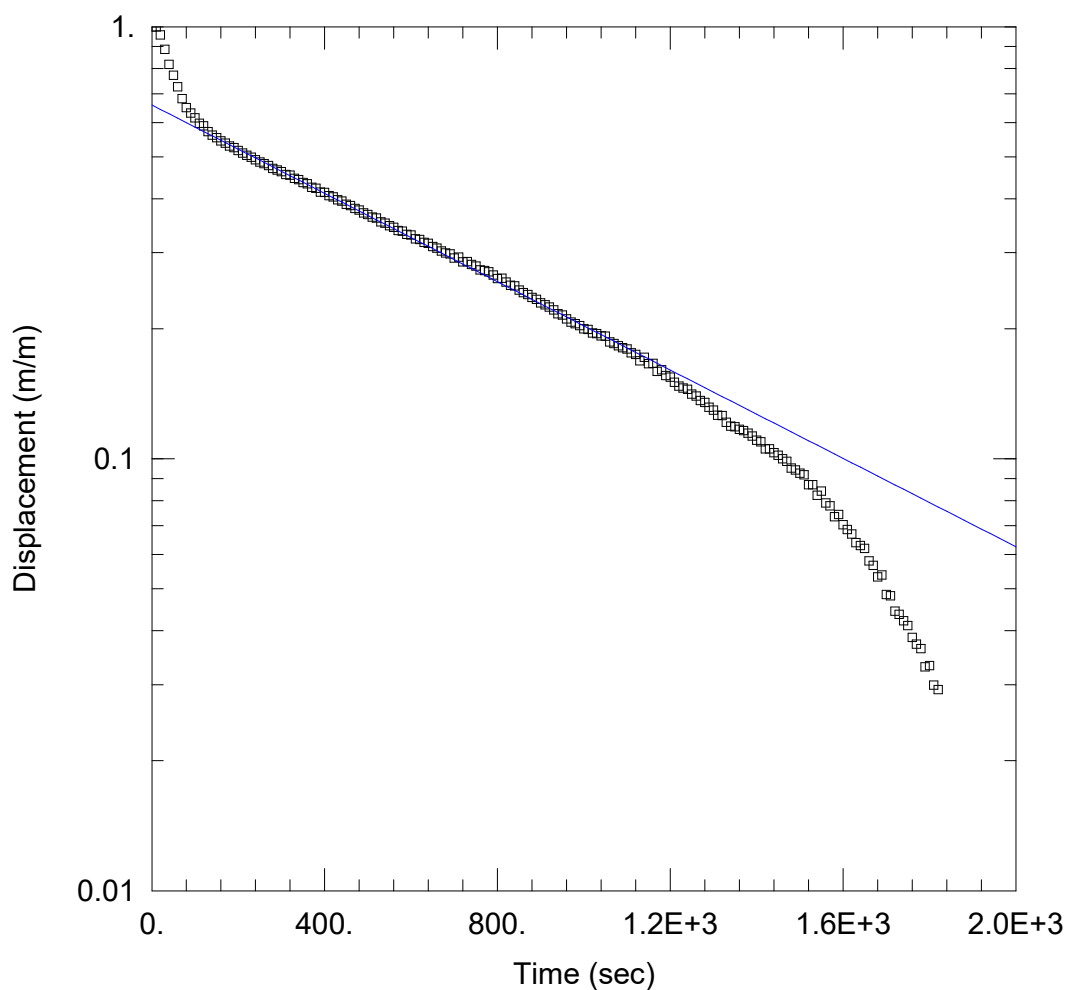
SOLUTION

Aquifer Model: Unconfined

K = 0.001335 m/day

Solution Method: Bouwer-Rice

y0 = 11.41 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_68.2m(3)_v2.aqt

Date: 03/17/26

Time: 15:57:36

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_68.2m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 51.1 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-D_68.2m(3))

Initial Displacement: 8.59 m

Static Water Column Height: 17.1 m

Total Well Penetration Depth: 68.2 m

Screen Length: 59.69 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

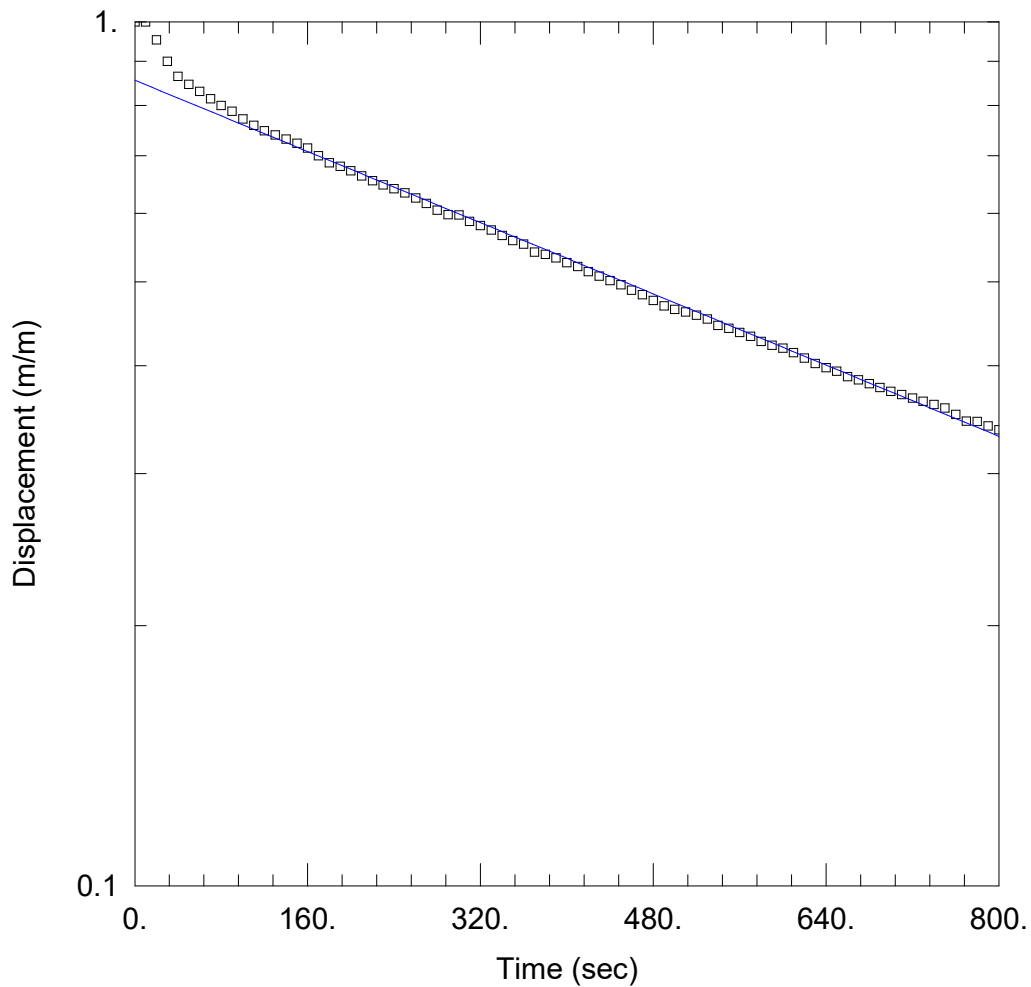
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.004237 m/day

y0 = 5.663 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_74.2m(3)_v2.aqt

Date: 03/17/26

Time: 15:58:39

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_74.2m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 57.1 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-D_74.2m(3))

Initial Displacement: 9.172 m

Static Water Column Height: 17.1 m

Total Well Penetration Depth: 74.2 m

Screen Length: 66.27 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

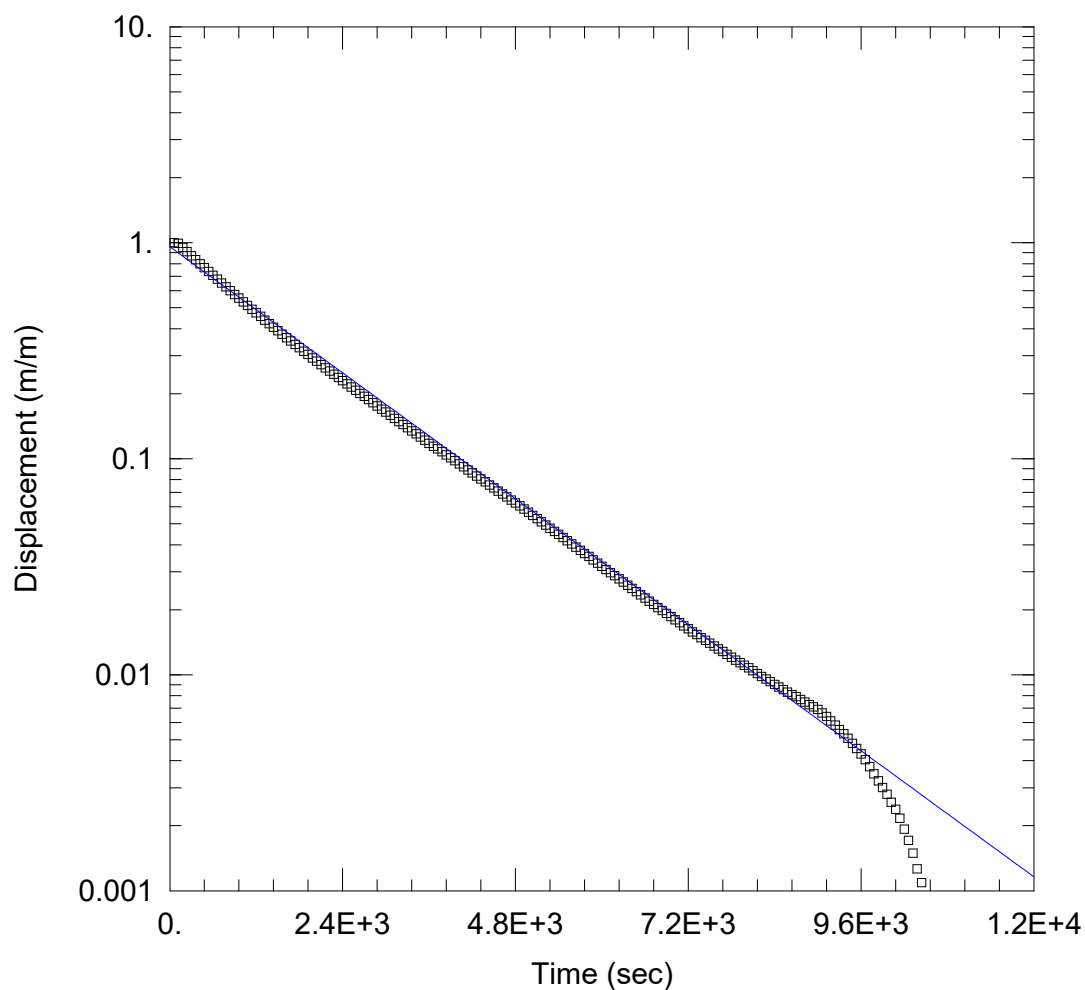
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.003876 m/day

y0 = 7.849 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_76.5m(2).aqt

Date: 03/17/26

Time: 16:00:00

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_76.5m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 45.88 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1003-D_76.5m(2))

Initial Displacement: 29.9 m

Total Well Penetration Depth: 76.5 m

Casing Radius: 0.025 m

Static Water Column Height: 30.62 m

Screen Length: 6. m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

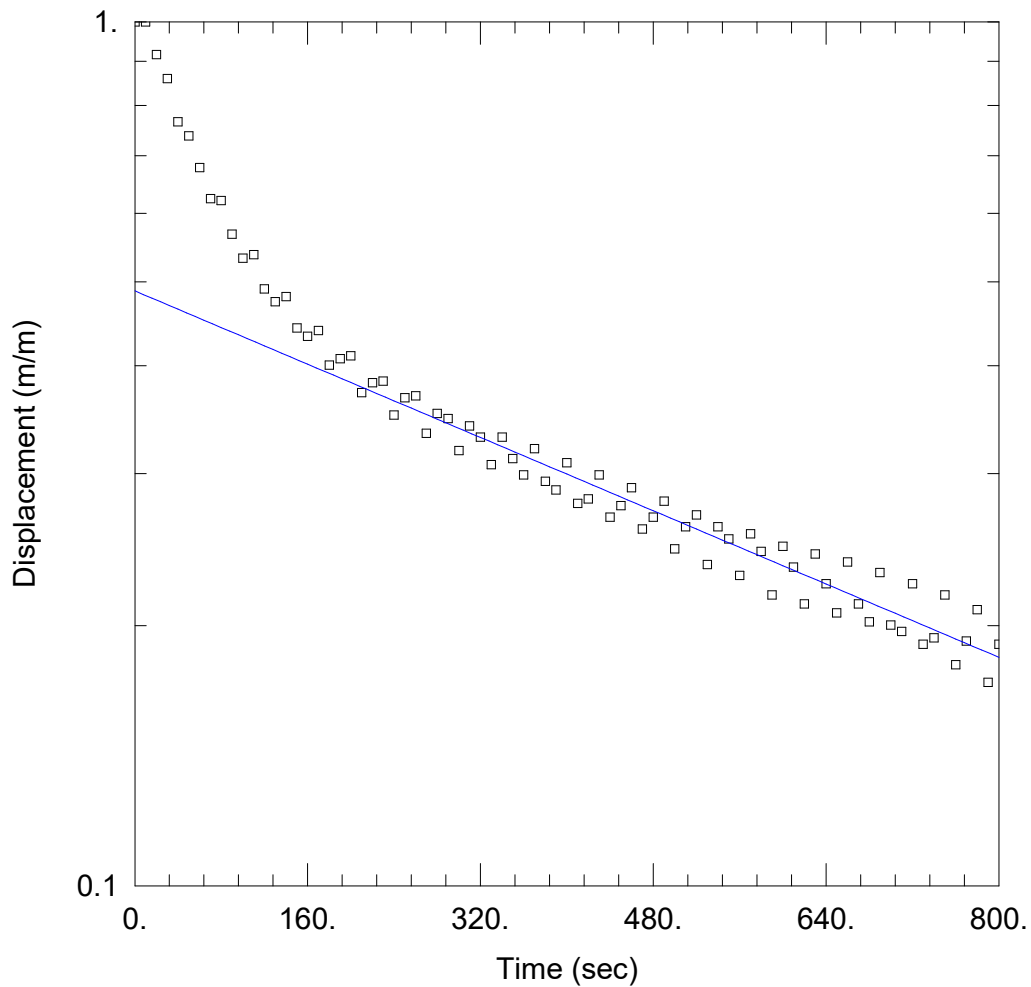
SOLUTION

Aquifer Model: Unconfined

$K = 0.01476$ m/day

Solution Method: Bouwer-Rice

$y_0 = 28.66$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-D_78.2m(3)_v2.aqt

Date: 03/17/26

Time: 16:01:05

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-D_78.2m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 61.49 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1003-D_78.2m(3))

Initial Displacement: 5.99 m

Total Well Penetration Depth: 78.2 m

Casing Radius: 0.025 m

Static Water Column Height: 16.71 m

Screen Length: 67.48 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

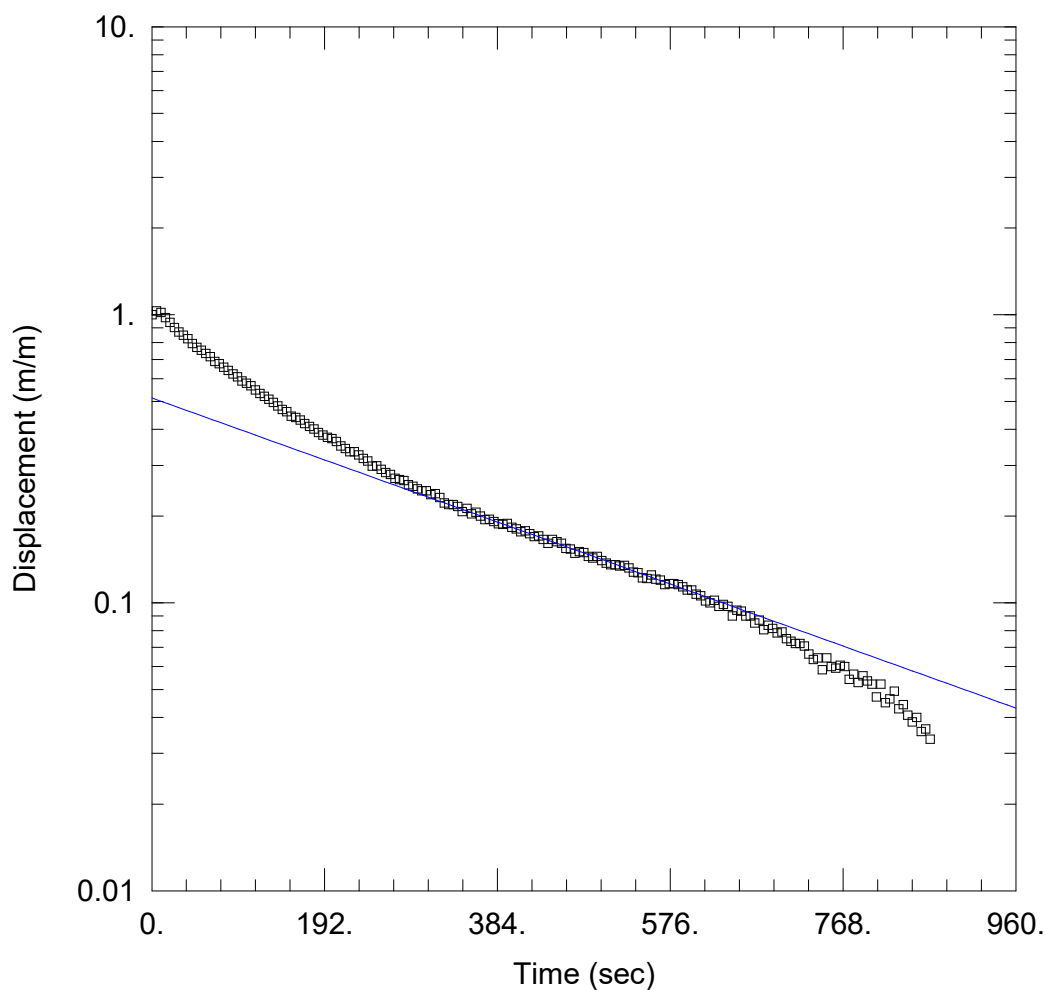
SOLUTION

Aquifer Model: Unconfined

$K = 0.003738$ m/day

Solution Method: Bouwer-Rice

$y_0 = 2.924$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-H1_0.6m_v2.aqt

Date: 03/17/26

Time: 15:44:42

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003_H1_0.6m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1003-H1_0.6m)

Initial Displacement: 0.14 m

Static Water Column Height: 0.14 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

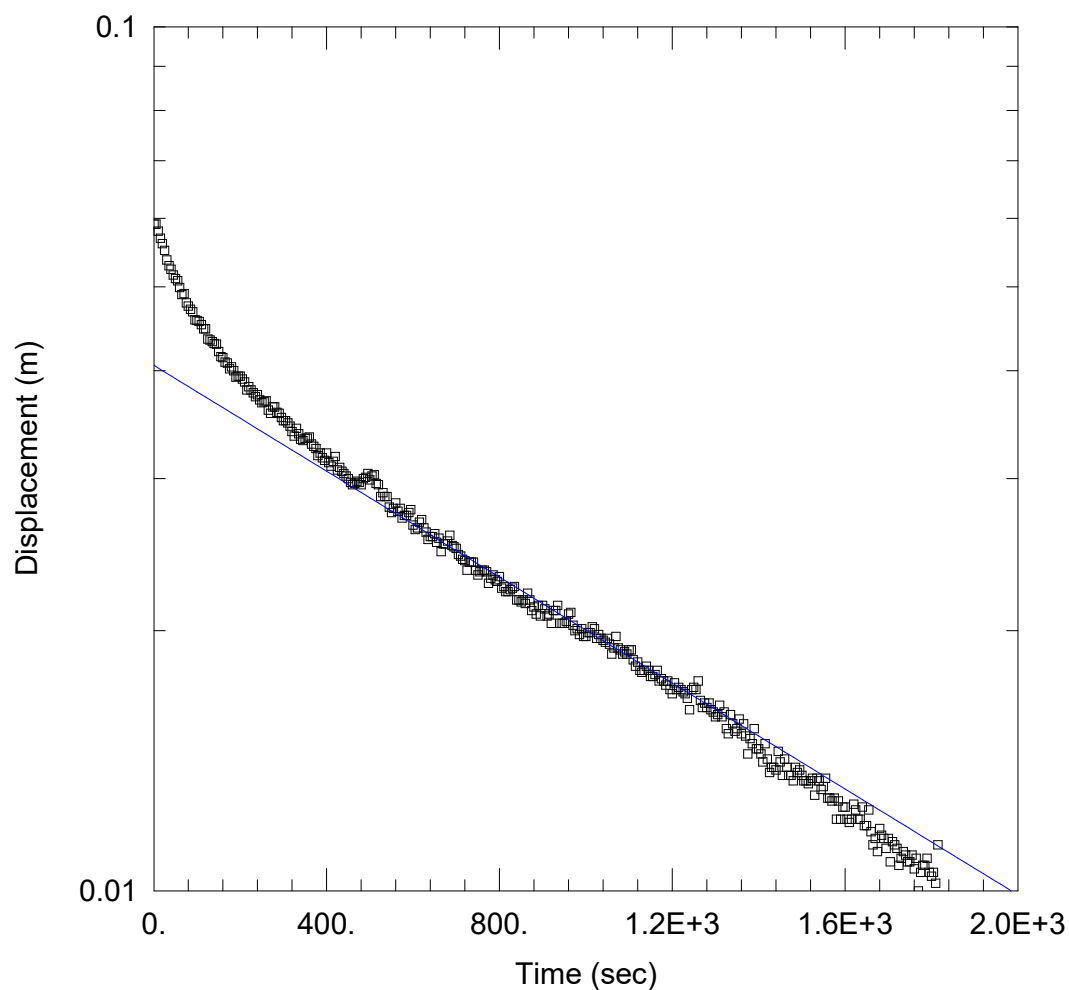
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.9061$ m/day

$y_0 = 0.07202$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-H2_0.6m_v2.aqt

Date: 03/17/26

Time: 15:49:21

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-H2_0.6m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1003-H2_0.6m)

Initial Displacement: 0.0591 m

Static Water Column Height: 0.06 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

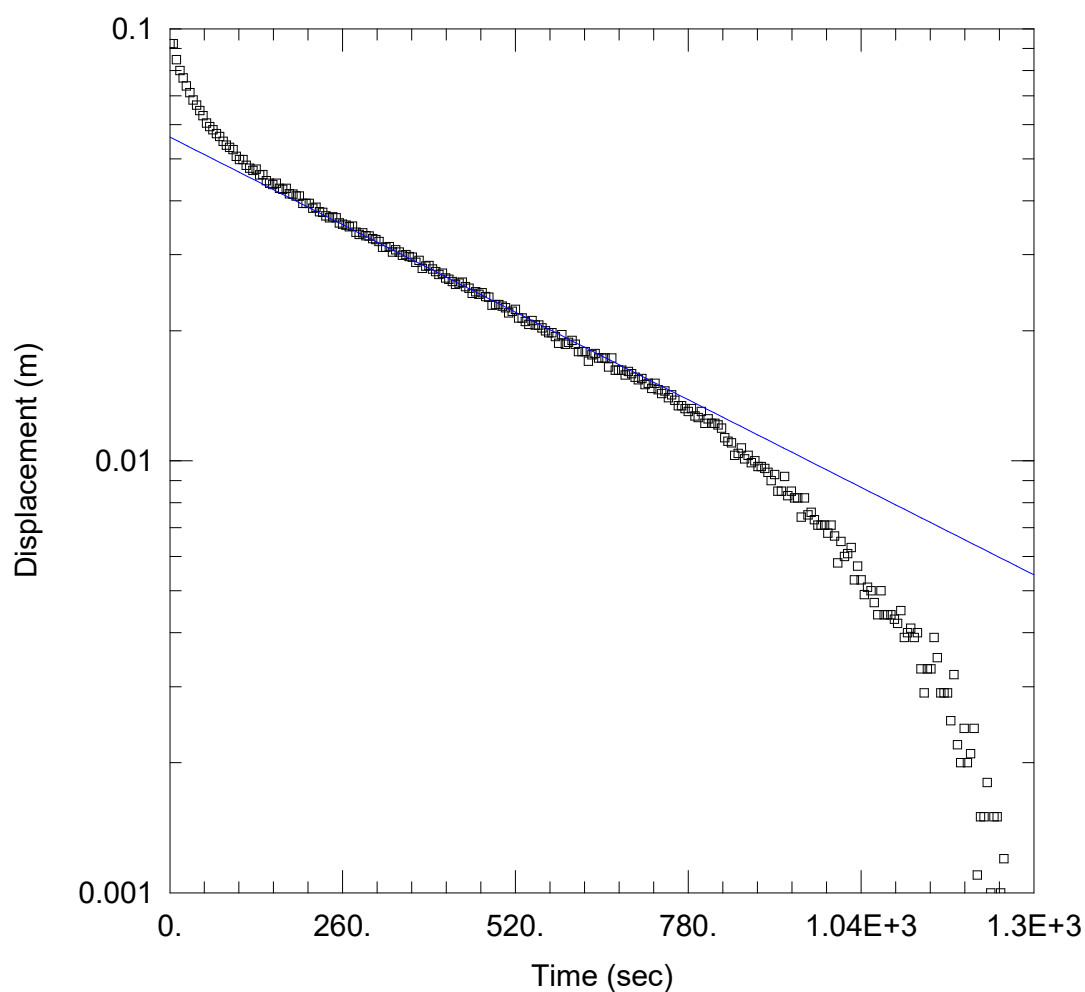
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.2475$ m/day

$y_0 = 0.04057$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-H3_0.6m_v2.aqt

Date: 03/17/26

Time: 15:51:58

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-H3_0.6m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-H3_0.6m)

Initial Displacement: 0.0924 m

Static Water Column Height: 0.0924 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

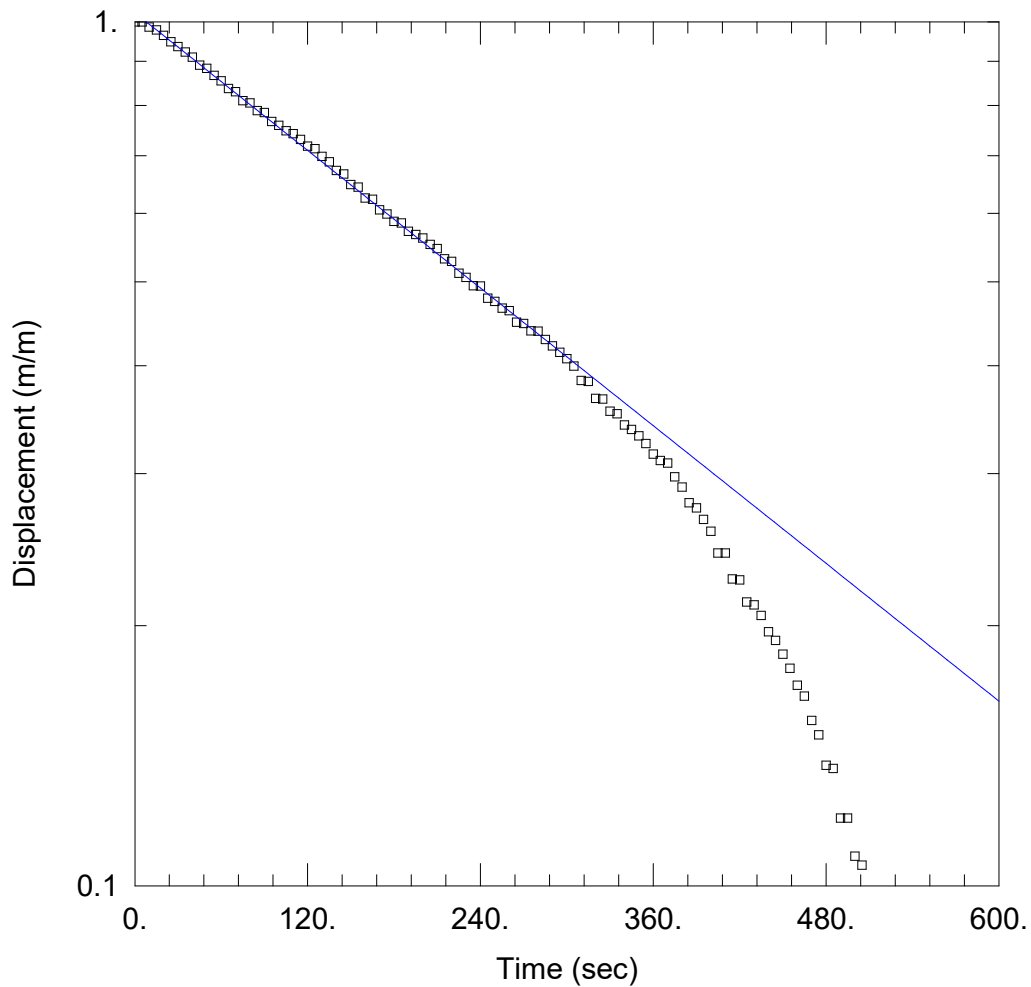
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.6296 m/day

y0 = 0.05615 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-S_6.7m.aqt

Date: 03/17/26

Time: 16:03:28

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-S_6.7m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1003-S_6.7m)

Initial Displacement: 0.5091 m

Static Water Column Height: 0.5091 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

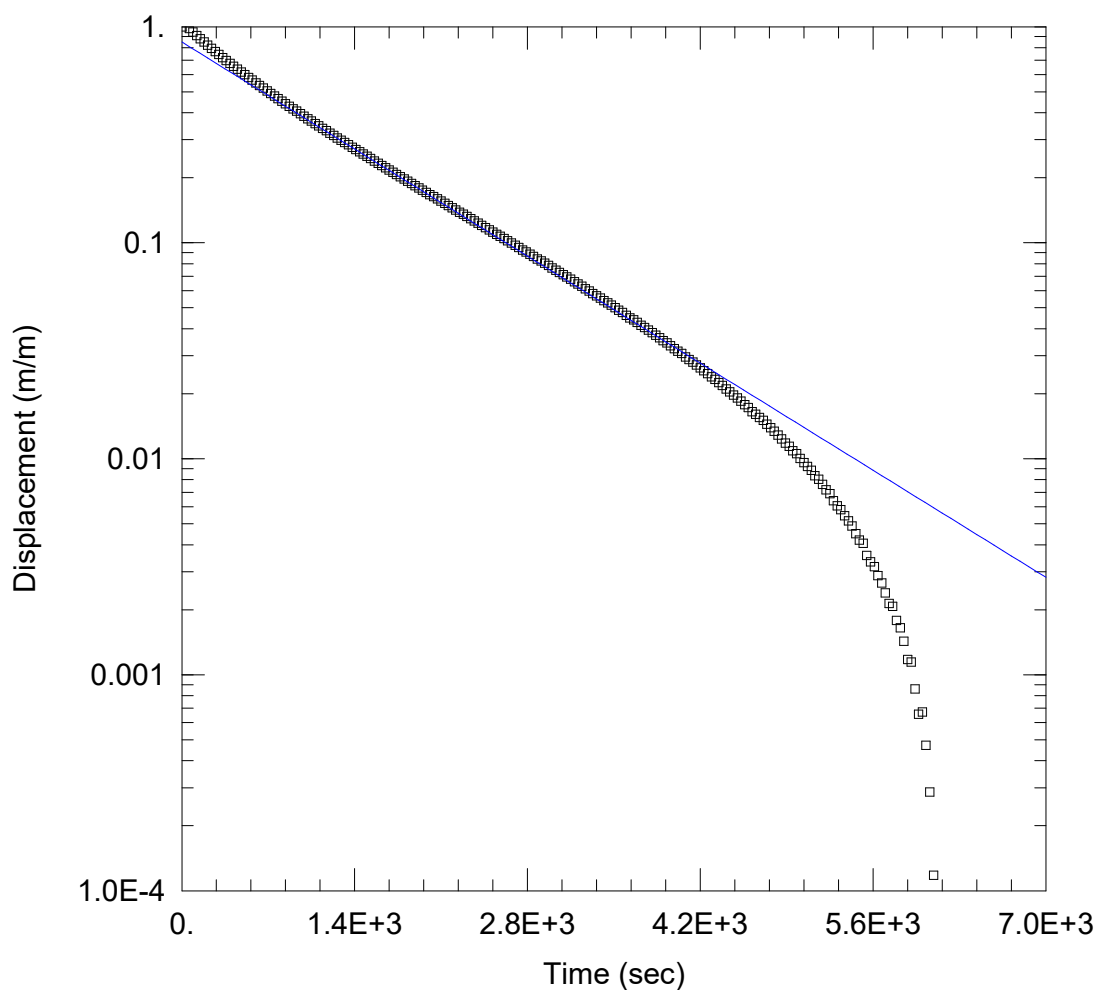
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.1882$ m/day

$y_0 = 0.5217$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1003-S_29.5m_v2.aqt

Date: 03/17/26

Time: 16:04:30

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1003-S_29.5m

Test Date: 02/01/2026

AQUIFER DATA

Saturated Thickness: 20. m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1003-S_29.5m)

Initial Displacement: 5.94 m

Total Well Penetration Depth: 28.4 m

Casing Radius: 0.025 m

Static Water Column Height: 5.94 m

Screen Length: 8.4 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

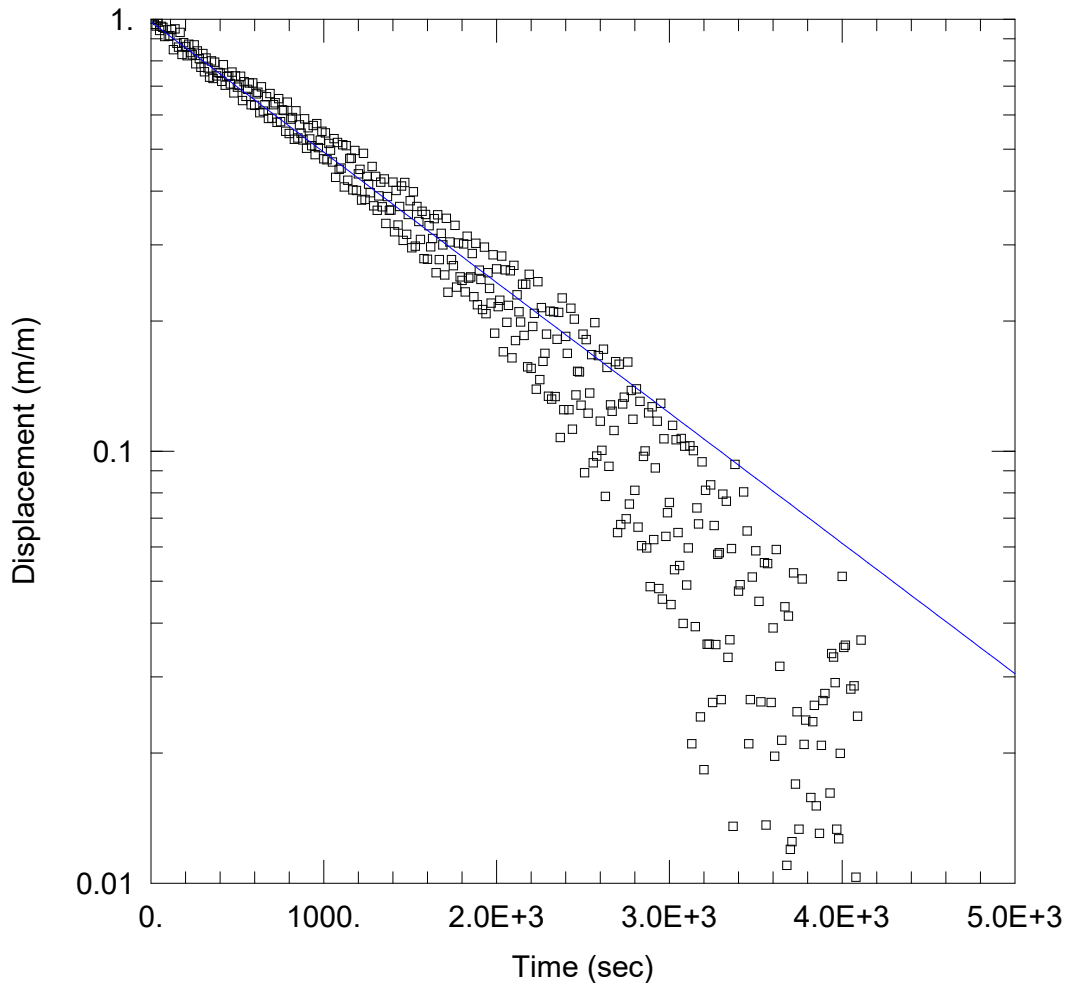
SOLUTION

Aquifer Model: Unconfined

K = 0.01415 m/day

Solution Method: Bouwer-Rice

y0 = 5.053 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1004-D_56.3m.aqt

Date: 03/18/26

Time: 08:01:52

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1004-D_56.3m

Test Date: 06/03/2026

AQUIFER DATA

Saturated Thickness: 56.03 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1004-D_56.3m)

Initial Displacement: 1.027 m

Static Water Column Height: 0.27 m

Total Well Penetration Depth: 56.3 m

Screen Length: 56.03 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

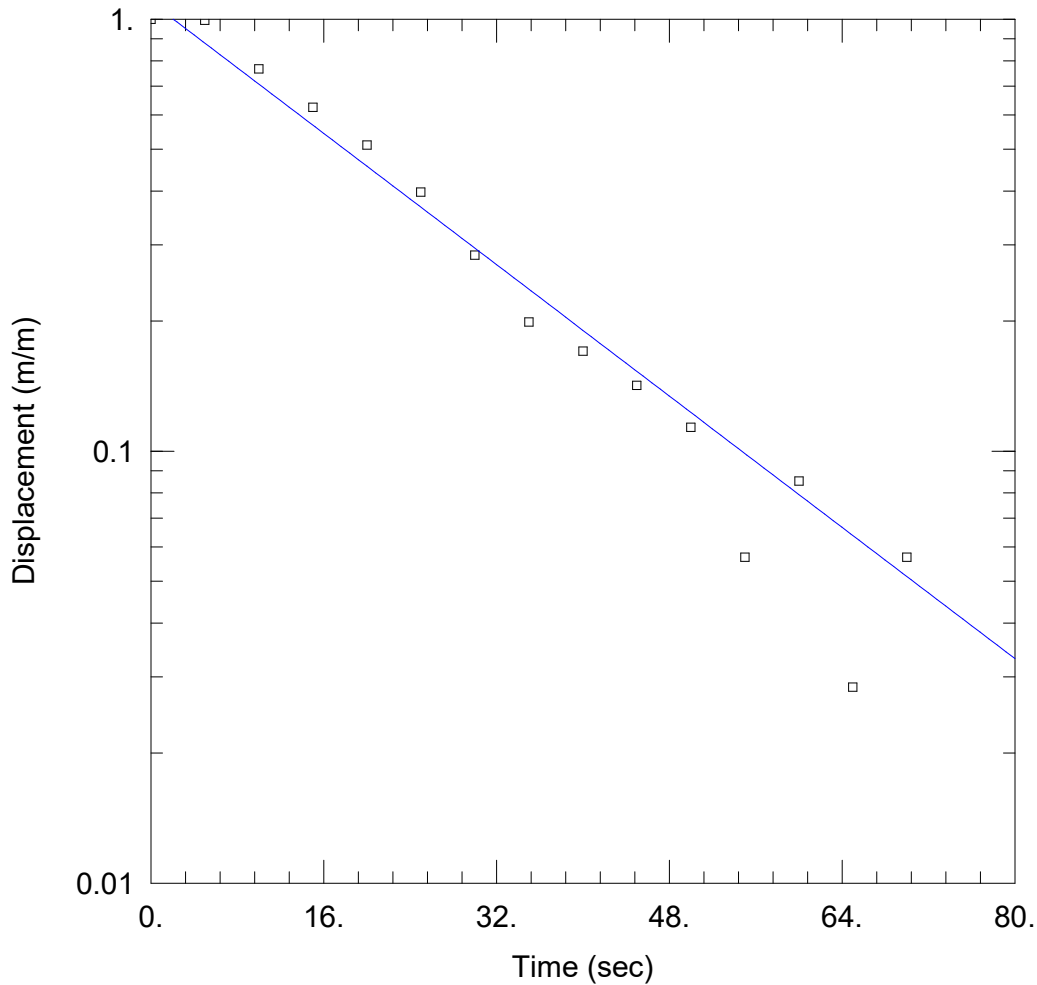
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.002236$ m/day

$y_0 = 1.013$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-D_12m.aqt
 Date: 03/18/26

Time: 08:10:14

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-D_12m
 Test Date: 09/10/2025

AQUIFER DATA

Saturated Thickness: 11.65 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-D_12m)

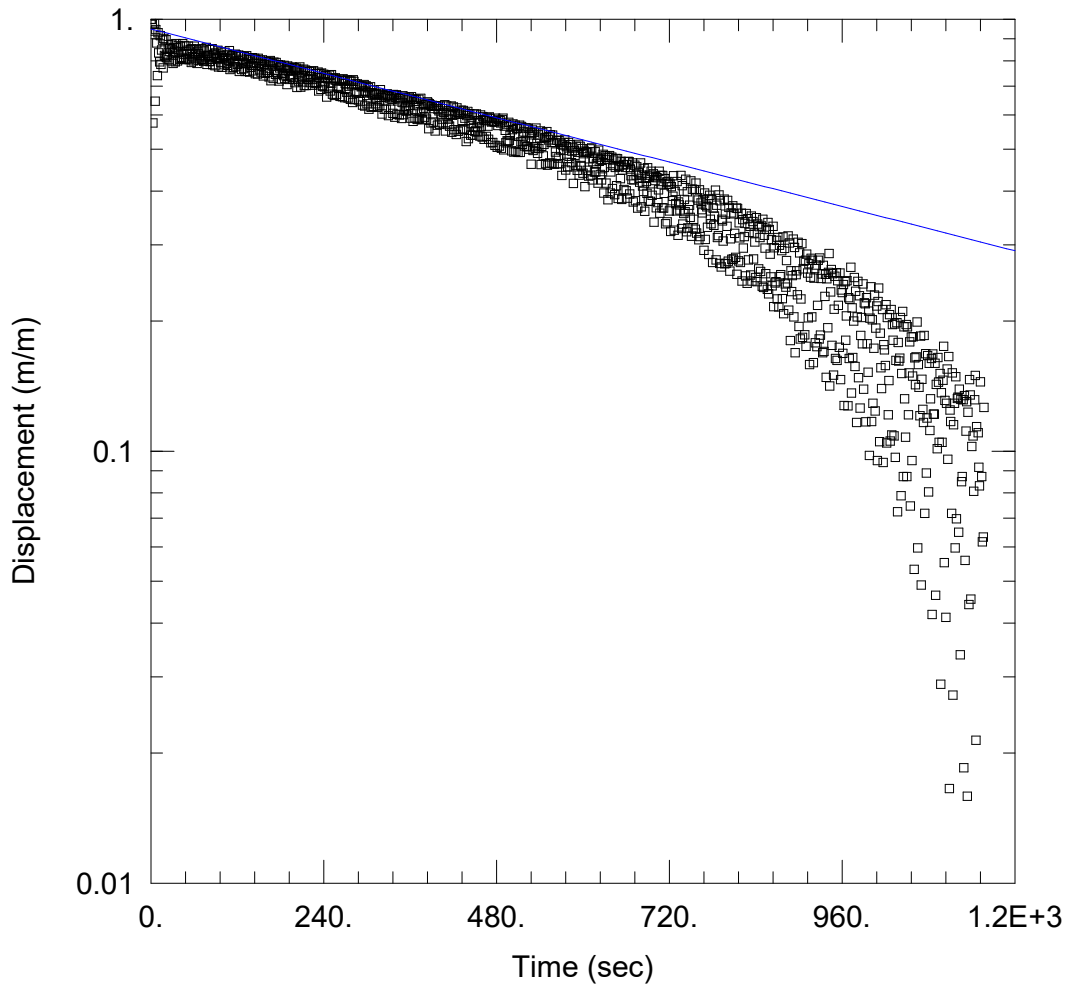
Initial Displacement: 0.352 m
 Total Well Penetration Depth: 12. m
 Casing Radius: 0.025 m

Static Water Column Height: 0.352 m
 Screen Length: 11.65 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 0.5007$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.3853$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-D_28m.aqt
 Date: 03/18/26

Time: 08:11:06

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-D_28m
 Test Date: 15/10/2025

AQUIFER DATA

Saturated Thickness: 12. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-D_28m)

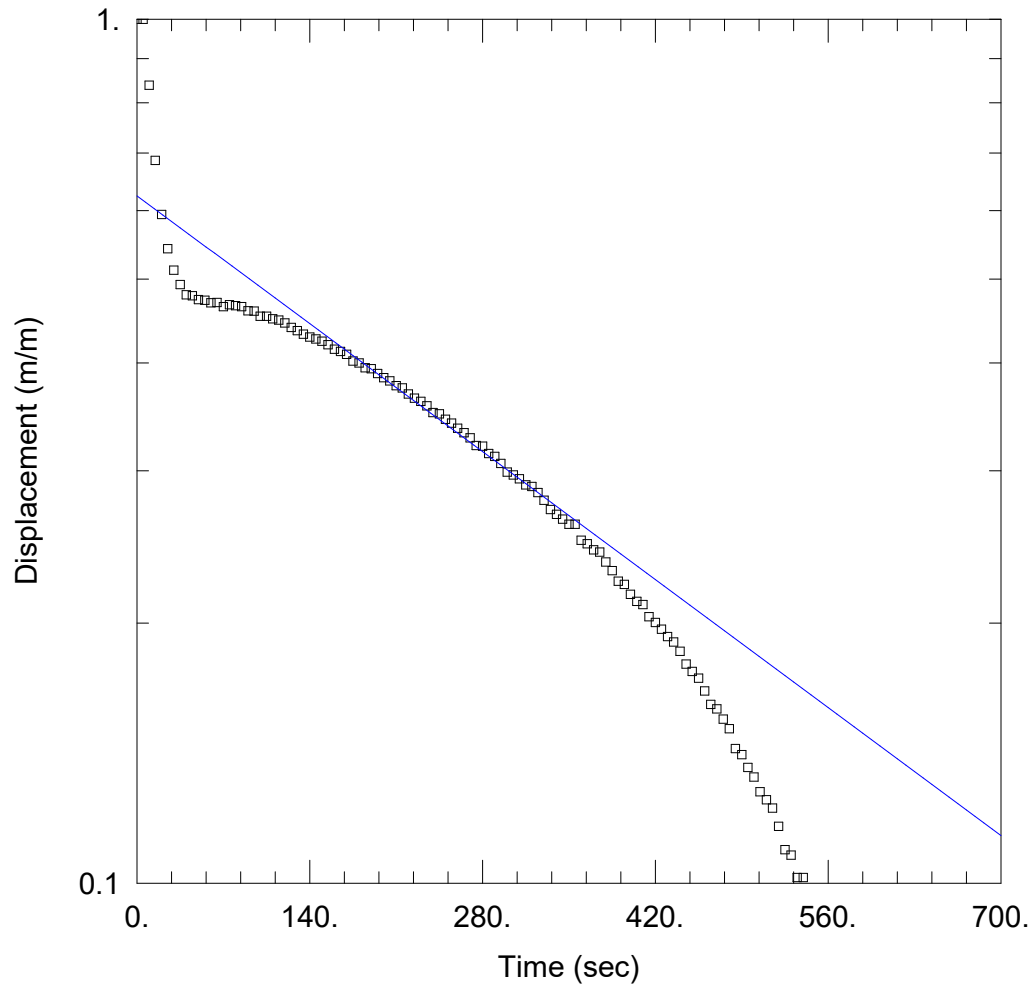
Initial Displacement: 0.3082 m
 Total Well Penetration Depth: 28. m
 Casing Radius: 0.025 m

Static Water Column Height: 0.3082 m
 Screen Length: 28. m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 0.01229$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.2923$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-D_40m_v2.aqt
 Date: 03/18/26

Time: 08:12:14

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-D_40m
 Test Date: 16/10/2025

AQUIFER DATA

Saturated Thickness: 31.79 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1005-D_40m)

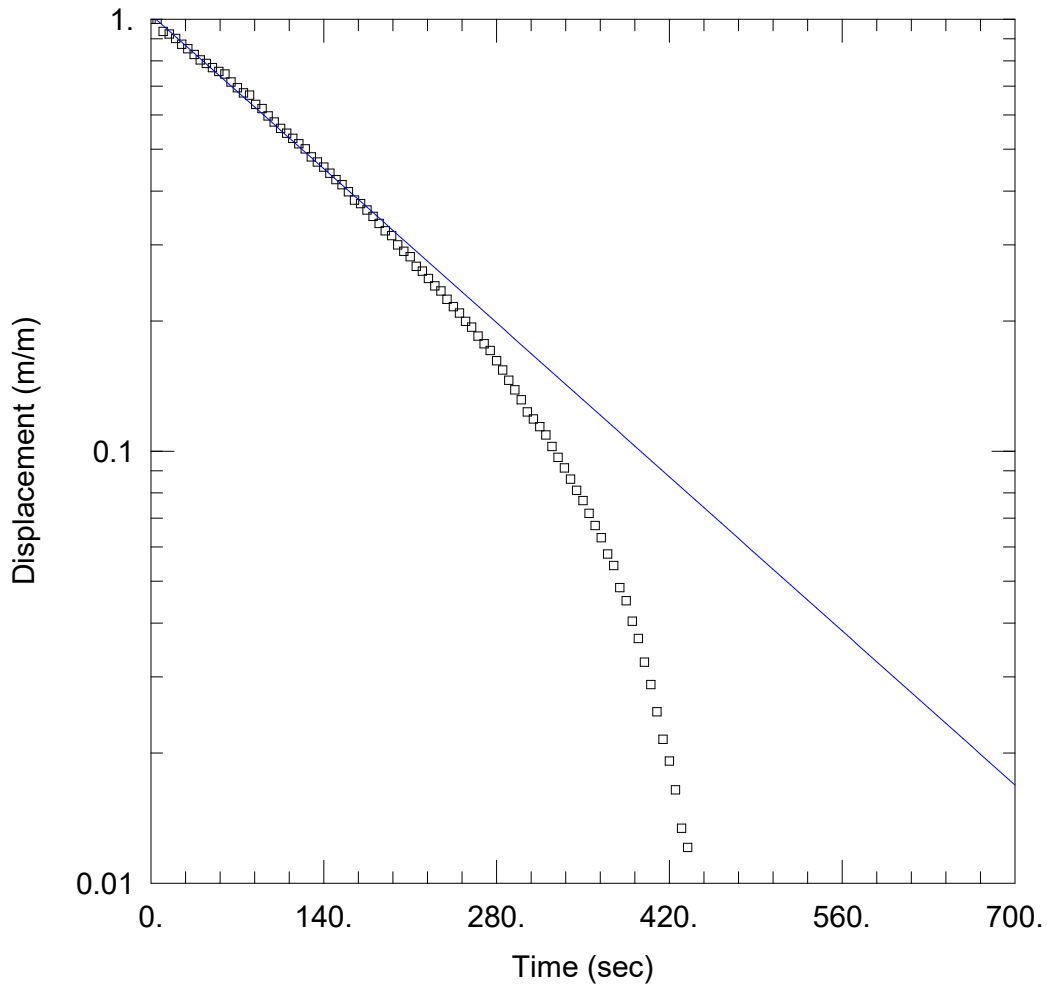
Initial Displacement: 0.2571 m
 Total Well Penetration Depth: 40. m
 Casing Radius: 0.025 m

Static Water Column Height: 8.21 m
 Screen Length: 31.79 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.01288 m/day

Solution Method: Bouwer-Rice
 y0 = 0.1606 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-D_54m.aqt
 Date: 03/18/26

Time: 08:13:22

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-D_54m
 Test Date: 17/10/2025

AQUIFER DATA

Saturated Thickness: 51.76 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1005-D_54m)

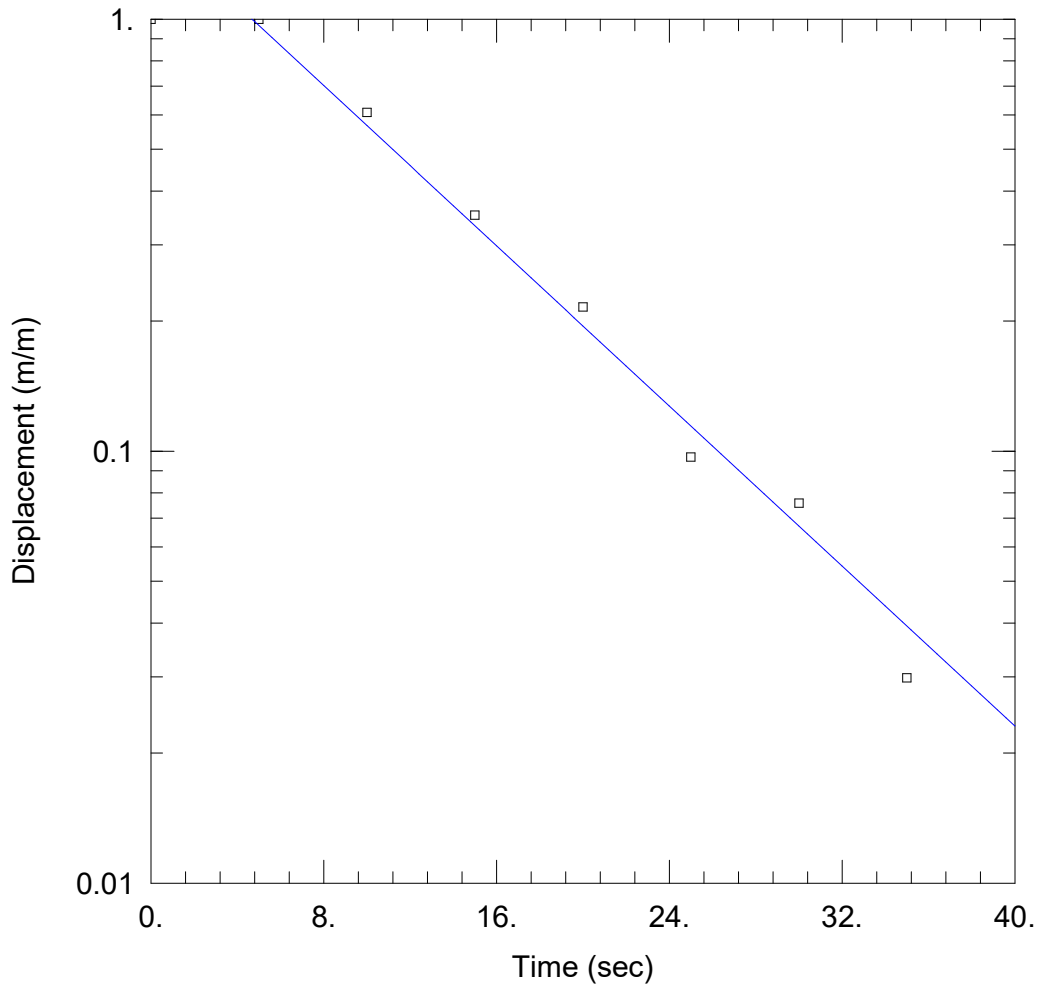
Initial Displacement: 1.059 m
 Total Well Penetration Depth: 54. m
 Casing Radius: 0.025 m

Static Water Column Height: 2.24 m
 Screen Length: 51.76 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.02026 m/day

Solution Method: Bouwer-Rice
 y0 = 1.085 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-D_63.2m.aqt
 Date: 03/18/26

Time: 08:14:22

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-D_63.2m
 Test Date: 11/11/2025

AQUIFER DATA

Saturated Thickness: 45.58 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1005-D_63.2m)

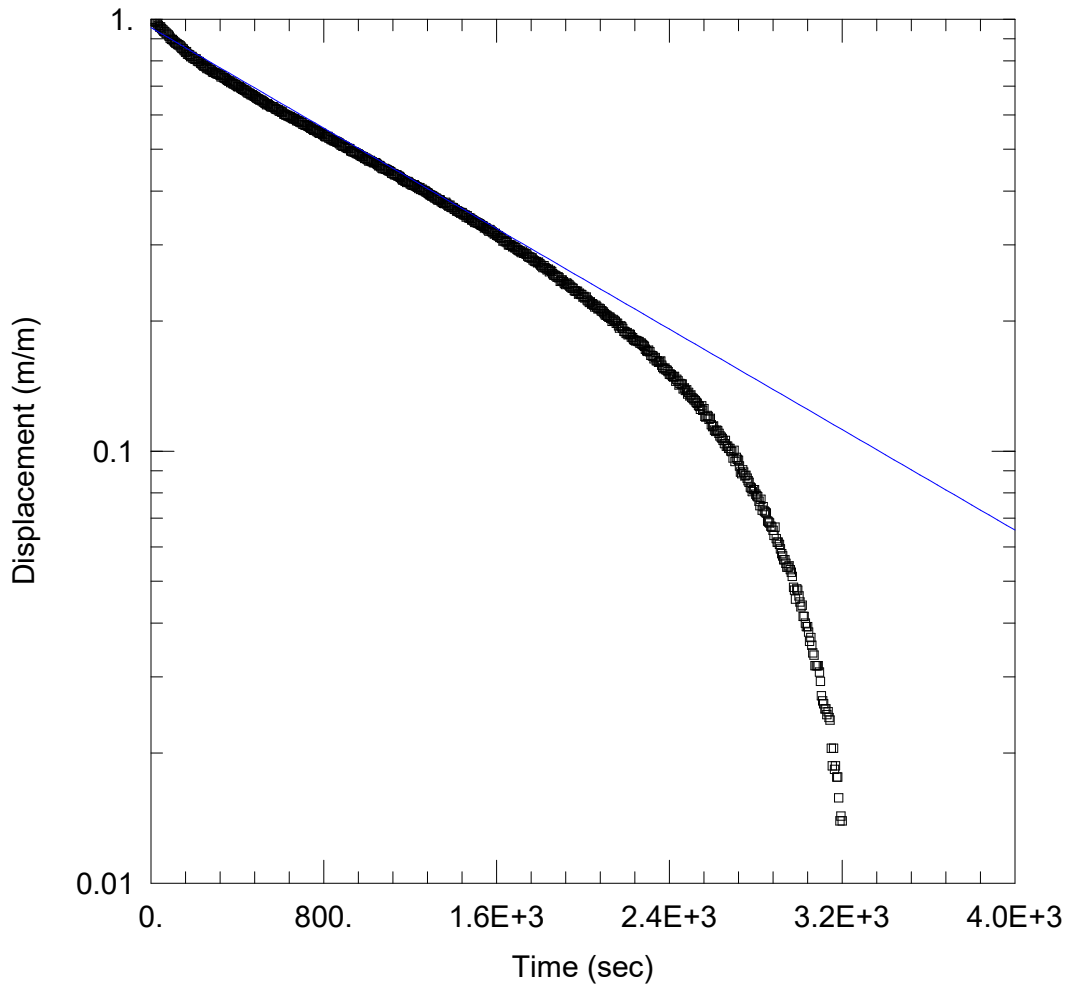
Initial Displacement: 0.2044 m
 Total Well Penetration Depth: 63.2 m
 Casing Radius: 0.025 m

Static Water Column Height: 17.62 m
 Screen Length: 45.58 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.4241 m/day

Solution Method: Bouwer-Rice
 y0 = 0.3366 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-H1_0.6m.aqt
 Date: 03/18/26

Time: 08:03:29

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-H1_0.6m
 Test Date: 21/10/2025

AQUIFER DATA

Saturated Thickness: 0.33 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-H1_0.6m)

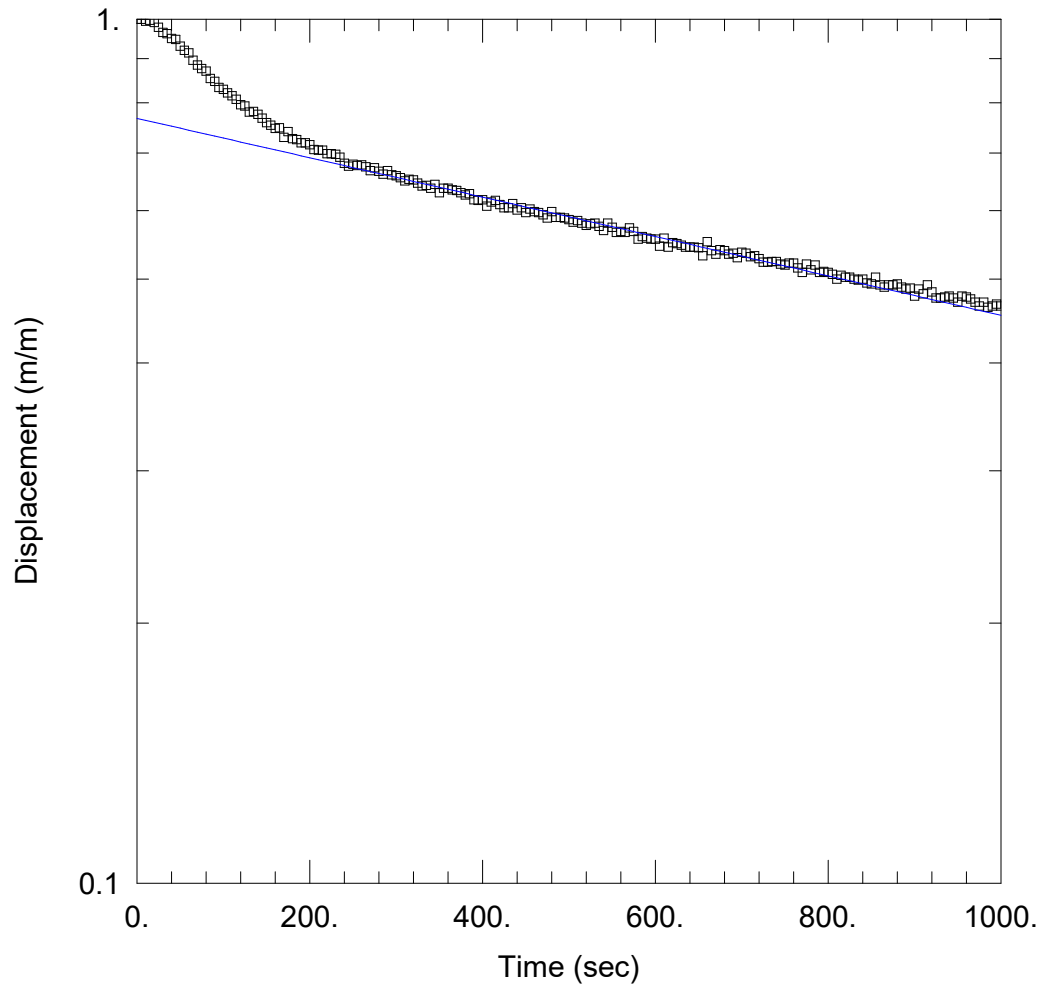
Initial Displacement: 0.2728 m
 Total Well Penetration Depth: 0.6 m
 Casing Radius: 0.075 m

Static Water Column Height: 0.2728 m
 Screen Length: 0.327 m
 Well Radius: 0.075 m

SOLUTION

Aquifer Model: Unconfined
 $K = 0.6916$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.2607$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-H2_0.6m_v2.aqt

Date: 03/18/26

Time: 08:04:50

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1005-H2_0.6m

Test Date: 21/10/2025

AQUIFER DATA

Saturated Thickness: 0.6 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1005-H2_0.6m)

Initial Displacement: 0.078 m

Static Water Column Height: 0.078 m

Total Well Penetration Depth: 0.6 m

Screen Length: 0.6 m

Casing Radius: 0.075 m

Well Radius: 0.075 m

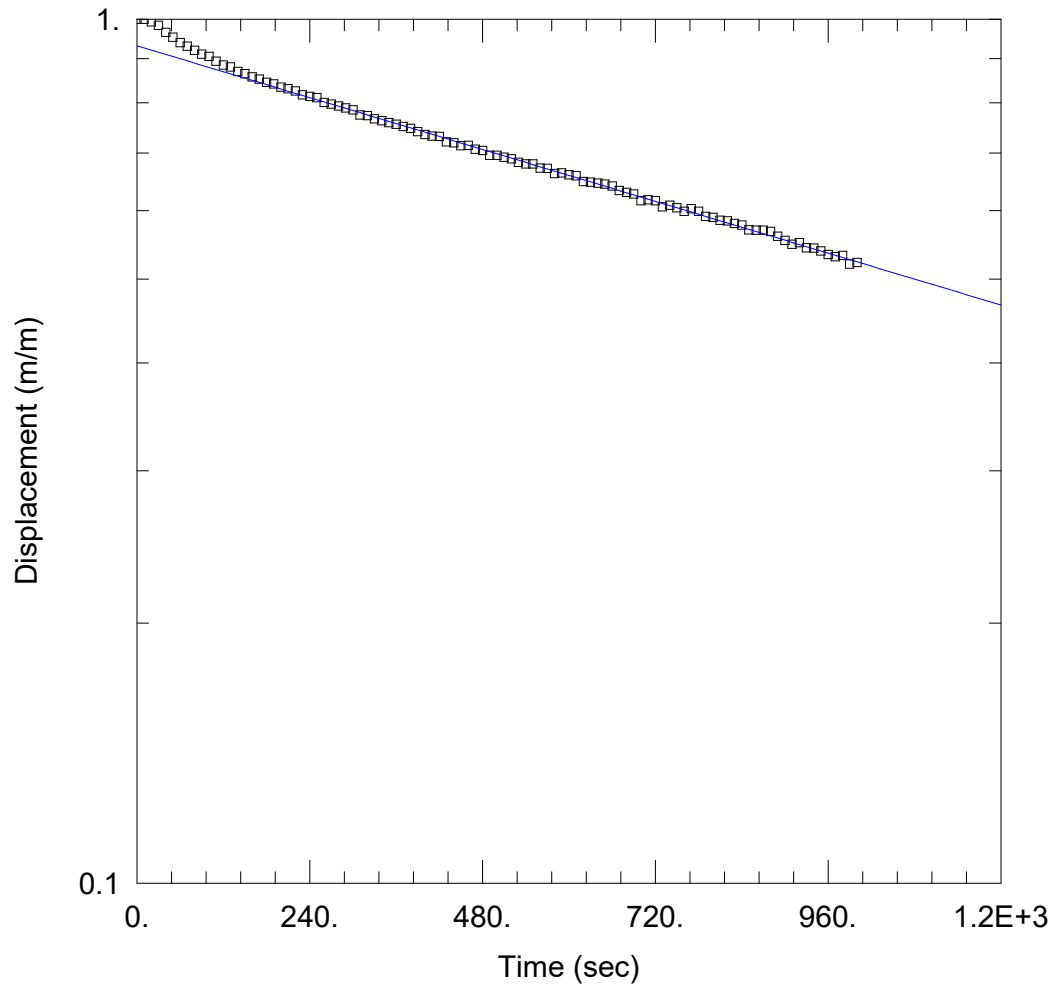
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.3124 m/day

y0 = 0.05987 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-H3_0.6m_v2.aqt

Date: 03/18/26

Time: 08:07:51

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1005-H3_0.6m

Test Date: 21/10/2025

AQUIFER DATA

Saturated Thickness: 0.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-H3_0.6m)

Initial Displacement: 0.1243 m

Static Water Column Height: 0.1243 m

Total Well Penetration Depth: 0.6 m

Screen Length: 0.6 m

Casing Radius: 0.075 m

Well Radius: 0.075 m

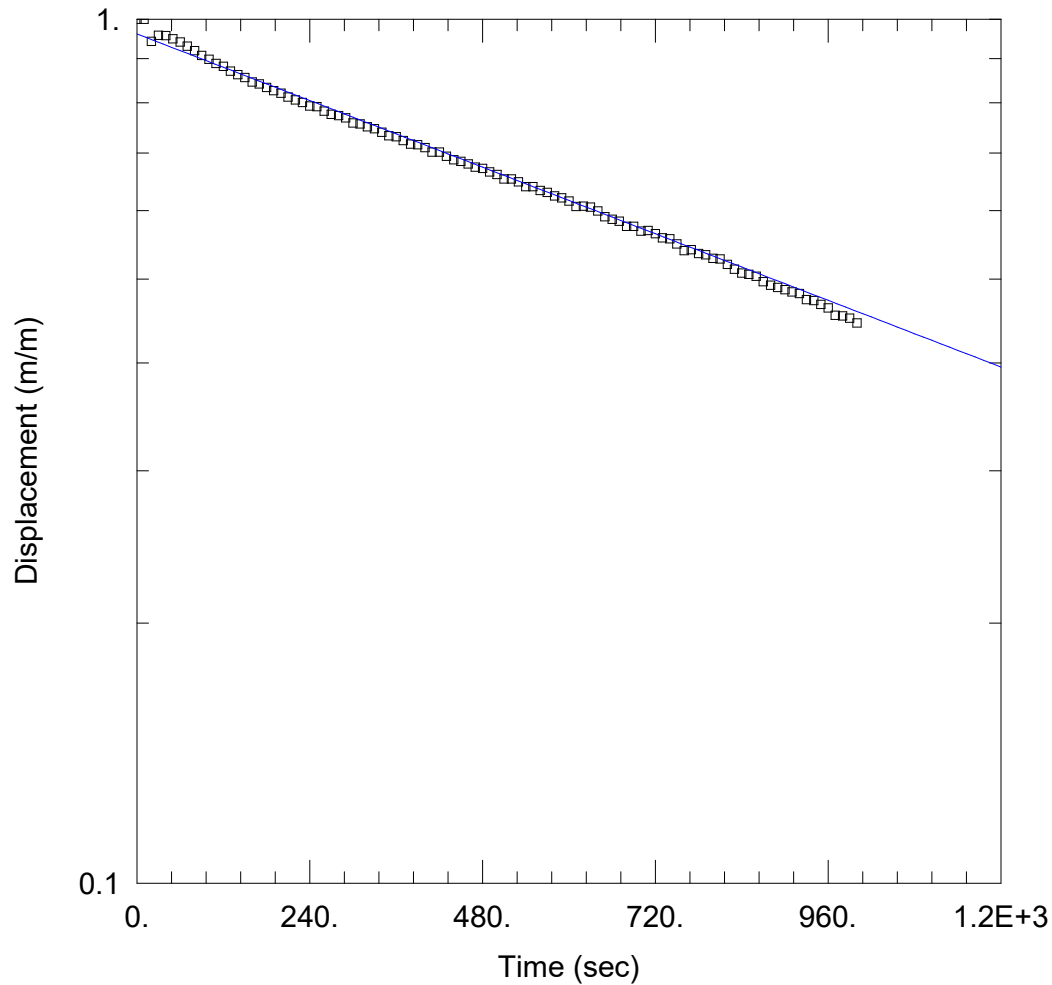
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.3428$ m/day

$y_0 = 0.1158$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-H4_0.6m.aqt
 Date: 03/18/26

Time: 08:09:13

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-H4_0.6m
 Test Date: 21/10/2025

AQUIFER DATA

Saturated Thickness: 0.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-H4_0.6m)

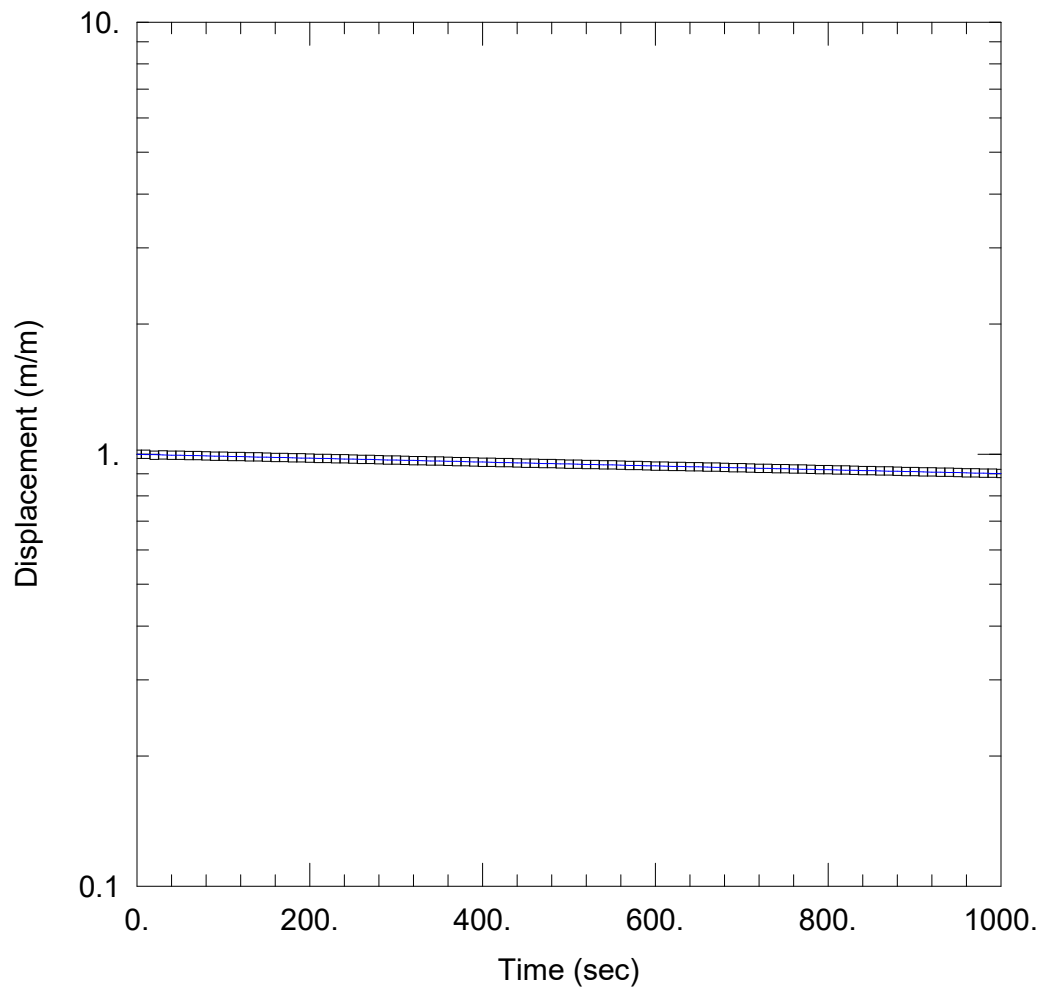
Initial Displacement: 0.1546 m
 Total Well Penetration Depth: 0.6 m
 Casing Radius: 0.075 m

Static Water Column Height: 0.1546 m
 Screen Length: 0.6 m
 Well Radius: 0.075 m

SOLUTION

Aquifer Model: Unconfined
 $K = 0.4404$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.1486$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-S_21.5m.aqt
 Date: 03/18/26

Time: 08:15:15

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-S_21.5m
 Test Date: 08/11/2025

AQUIFER DATA

Saturated Thickness: 13.38 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1005-S_21.5m)

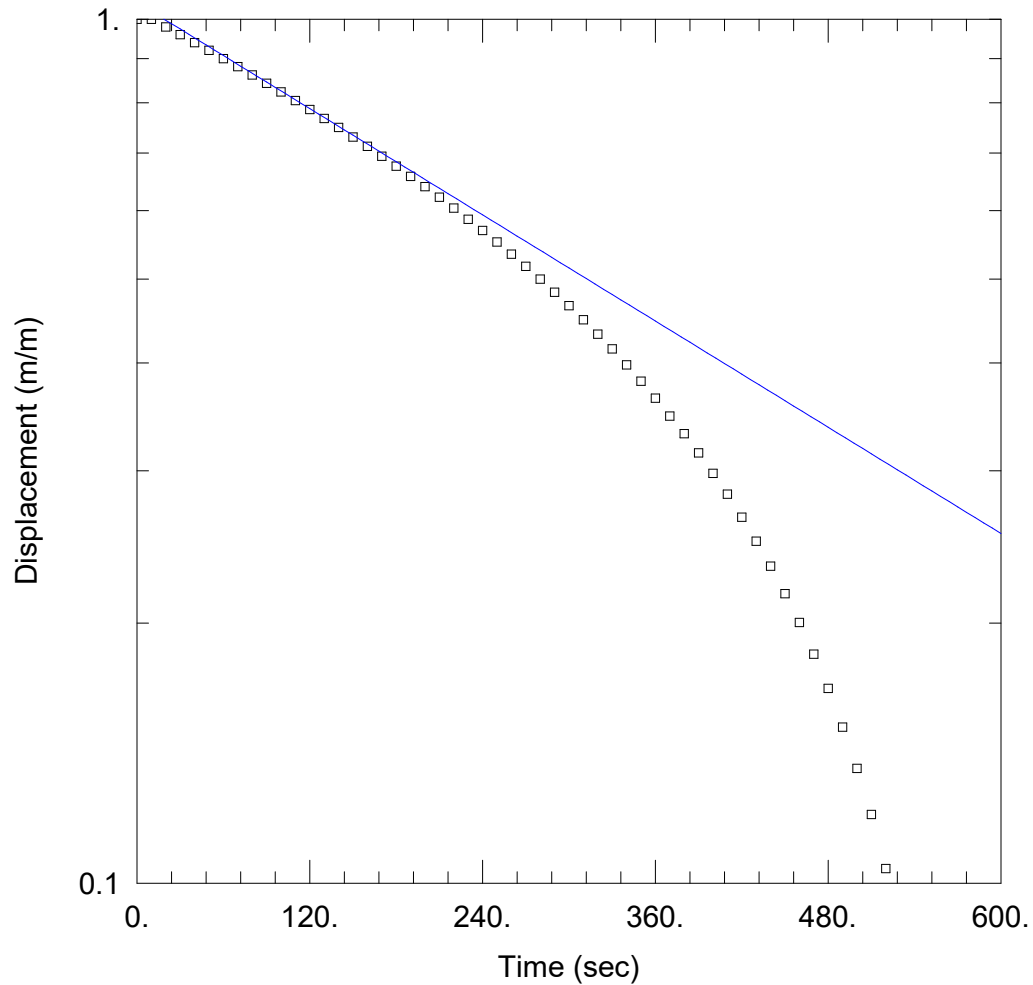
Initial Displacement: 2.085 m
 Total Well Penetration Depth: 21.5 m
 Casing Radius: 0.025 m

Static Water Column Height: 8.12 m
 Screen Length: 13.38 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.001118 m/day

Solution Method: Bouwer-Rice
 y0 = 2.082 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1005-S_28m.aqt
 Date: 03/18/26

Time: 08:16:09

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1005-S_28m
 Test Date: 11/11/2025

AQUIFER DATA

Saturated Thickness: 8.46 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1005-S_28m)

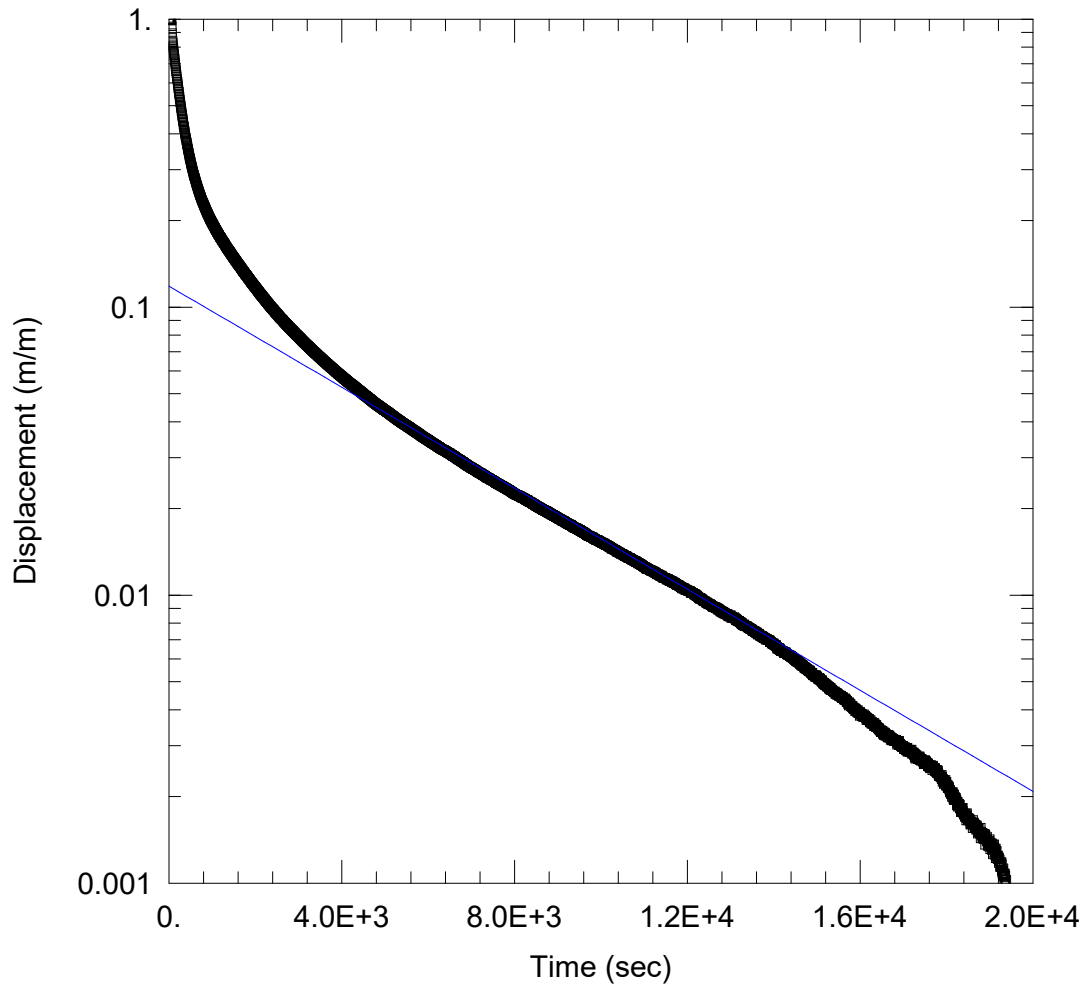
Initial Displacement: 2.523 m
 Total Well Penetration Depth: 28. m
 Casing Radius: 0.025 m

Static Water Column Height: 19.54 m
 Screen Length: 6. m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 $K = 0.05571$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 2.638$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1006-D_Development.aqt

Date: 03/18/26

Time: 08:37:19

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1006-D_65.2m

Test Date: 13/02/2026

AQUIFER DATA

Saturated Thickness: 65.05 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH1006-D_65.2m)

Initial Displacement: 10.91 m

Static Water Column Height: 0.1548 m

Total Well Penetration Depth: 62.2 m

Screen Length: 6. m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

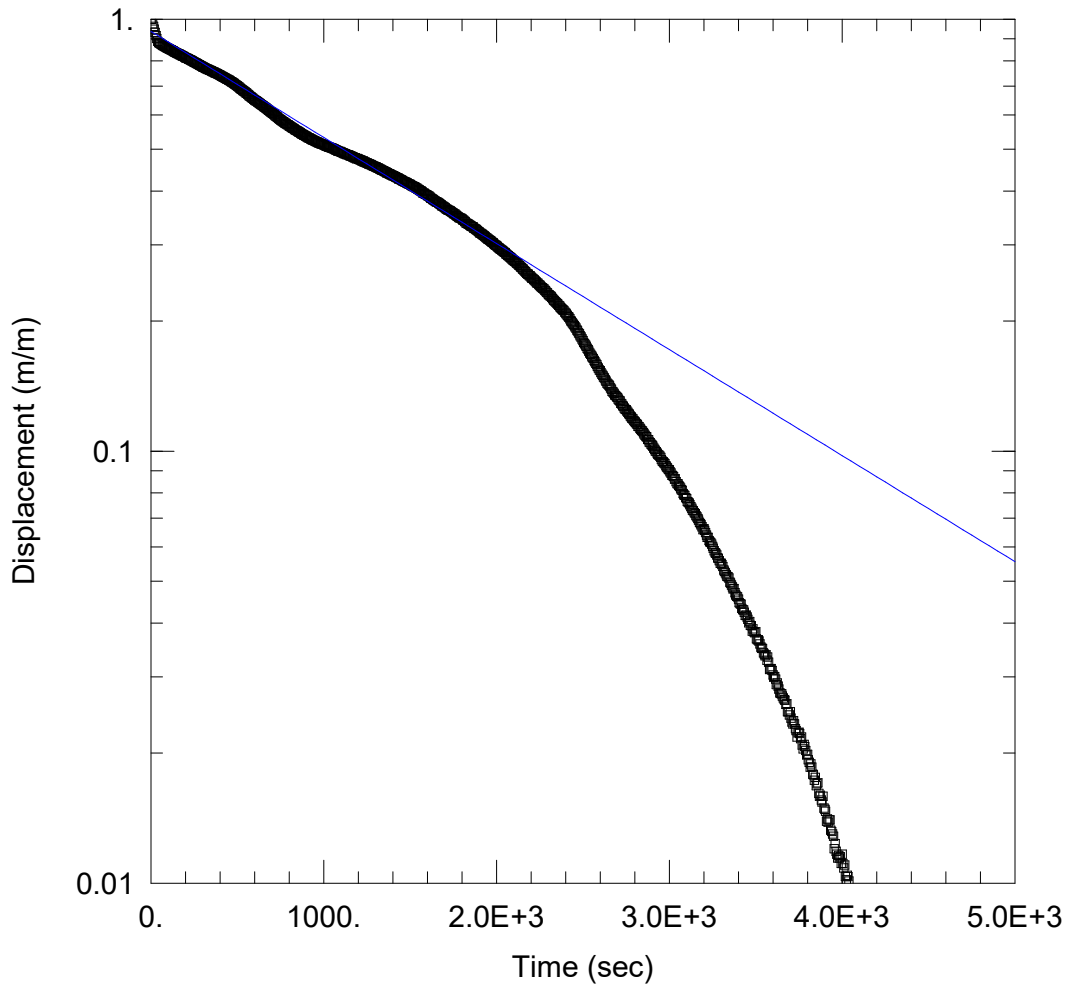
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.004639$ m/day

$y_0 = 1.29$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1006-S_9.95m.aqt
 Date: 03/18/26

Time: 08:51:02

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1006-S_9.95m
 Test Date: 11/02/2026

AQUIFER DATA

Saturated Thickness: 9.71 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1006-S_9.95m)

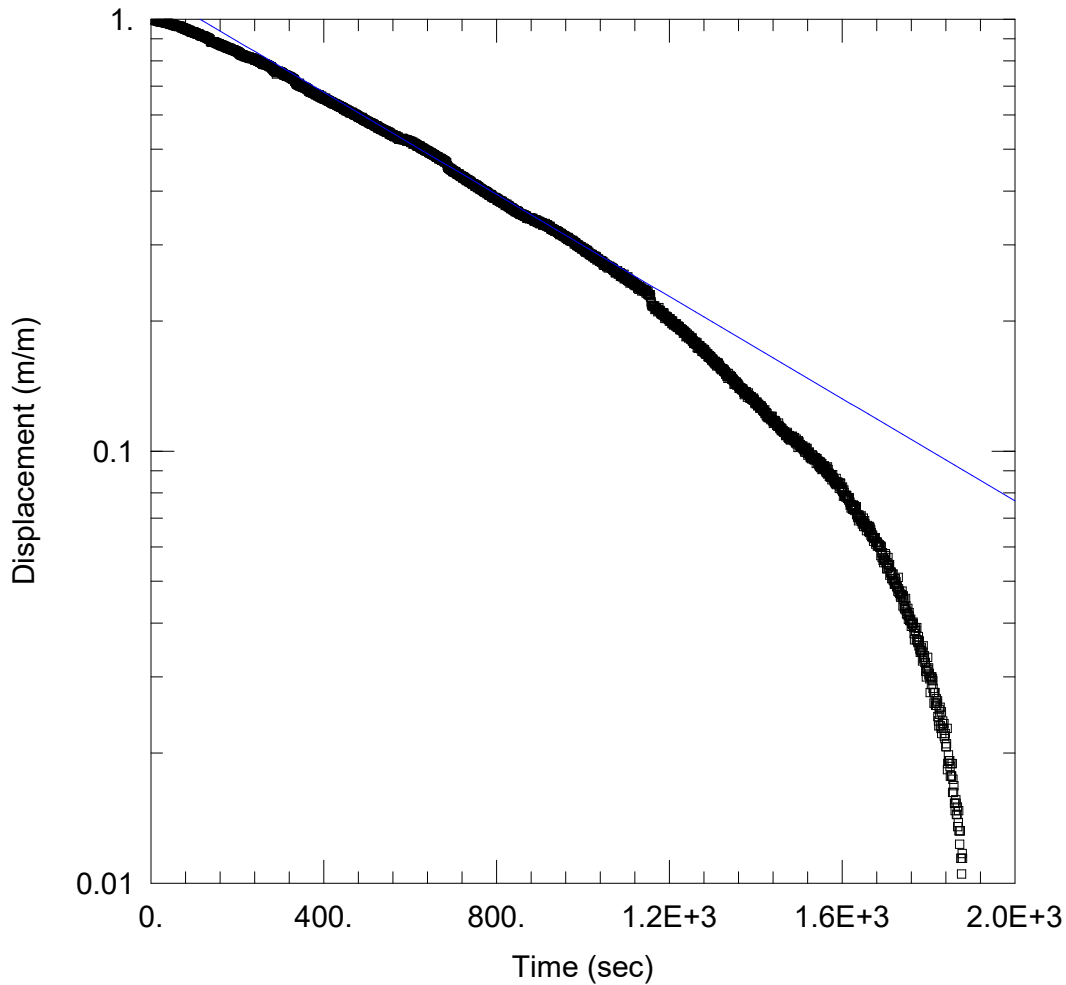
Initial Displacement: 1.208 m
 Total Well Penetration Depth: 9.95 m
 Casing Radius: 0.025 m

Static Water Column Height: 0.24 m
 Screen Length: 9.709 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.00746 m/day

Solution Method: Bouwer-Rice
 y0 = 1.131 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4014-H1_0.8m.aqt

Date: 03/18/26

Time: 09:14:23

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4014-H1_0.8m

Test Date: 06/10/2025

AQUIFER DATA

Saturated Thickness: 0.8 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4014-H1_0.8m)

Initial Displacement: 0.3332 m

Static Water Column Height: 0.3332 m

Total Well Penetration Depth: 0.8 m

Screen Length: 0.8 m

Casing Radius: 0.075 m

Well Radius: 0.075 m

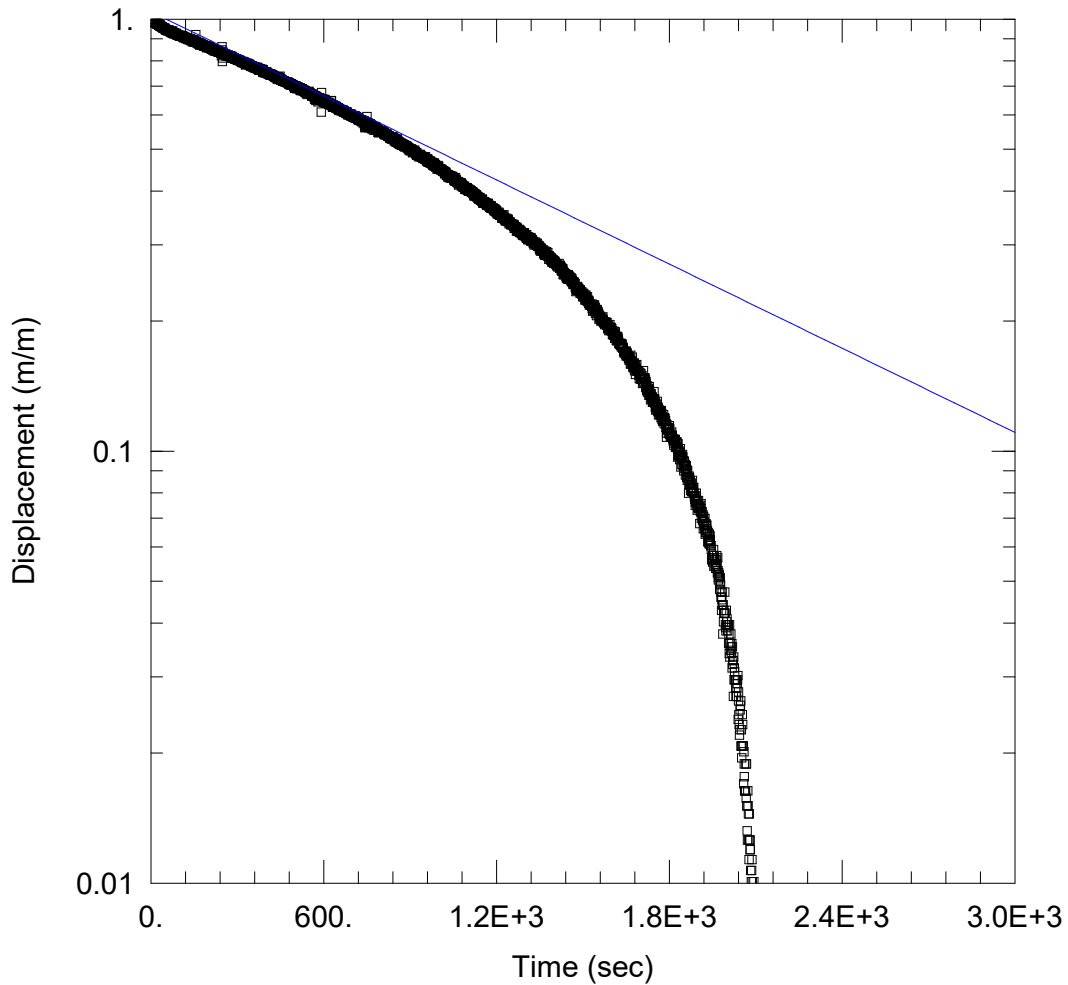
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.6957$ m/day

$y_0 = 0.3888$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4014-H3_0.6m.aqt

Date: 03/18/26

Time: 09:15:27

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4014-H3_0.6m

Test Date: 06/10/2025

AQUIFER DATA

Saturated Thickness: 0.6 m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4014-H3_0.6m)

Initial Displacement: 0.1589 m

Static Water Column Height: 0.1589 m

Total Well Penetration Depth: 0.6 m

Screen Length: 0.6 m

Casing Radius: 0.075 m

Well Radius: 0.075 m

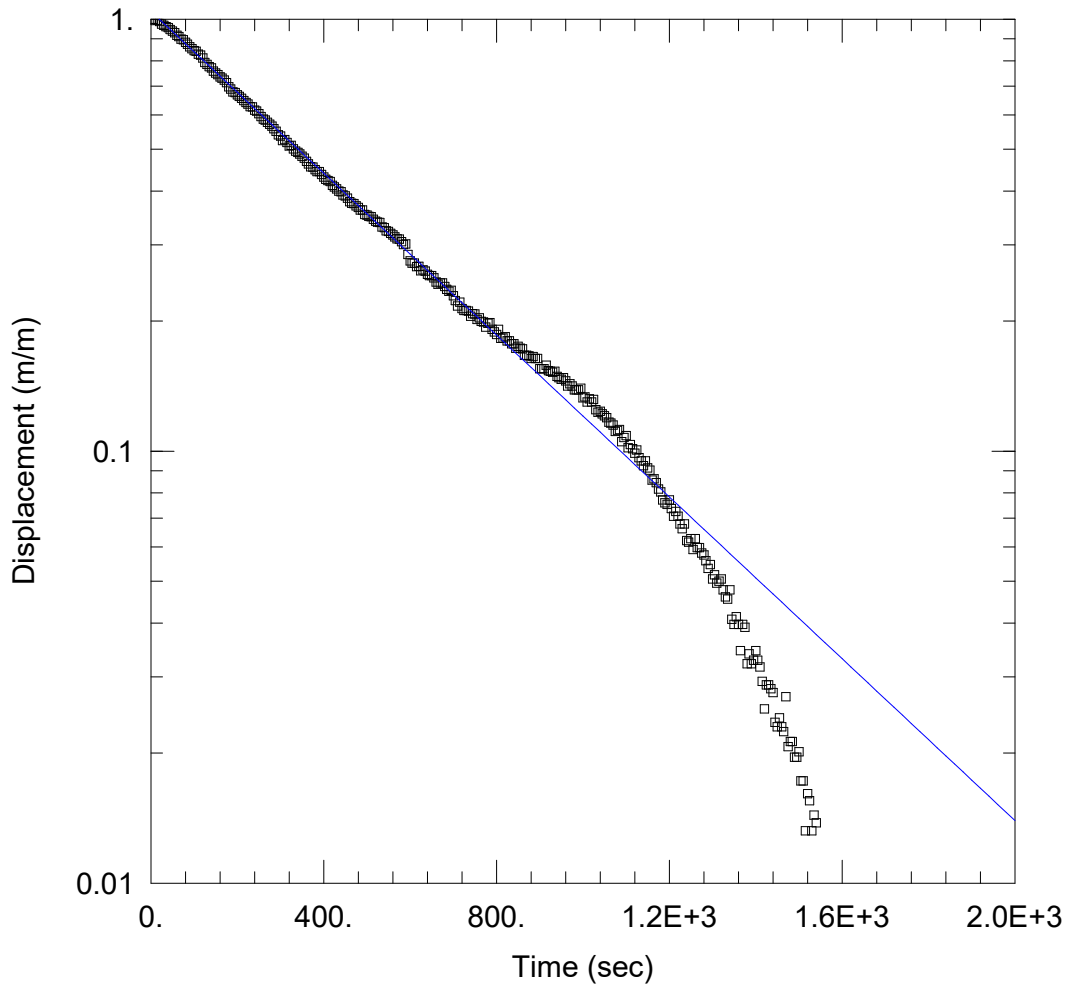
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.4451$ m/day

$y_0 = 0.1653$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4018-H1_1m.aqt
 Date: 03/18/26

Time: 09:16:30

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH4018-H1_1m
 Test Date: 29/09/2025

AQUIFER DATA

Saturated Thickness: 1. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4018-H1_1m)

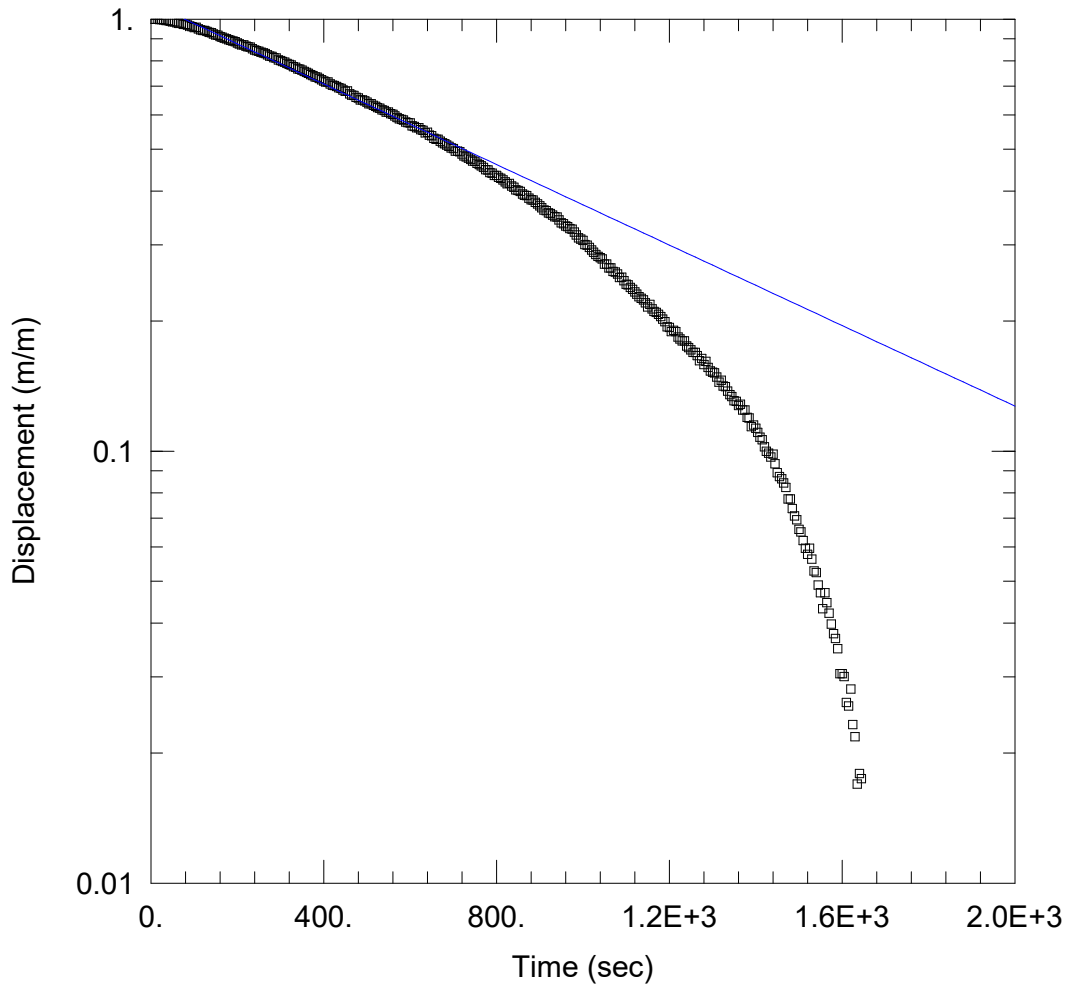
Initial Displacement: 0.1739 m
 Total Well Penetration Depth: 1. m
 Casing Radius: 0.075 m

Static Water Column Height: 0.1739 m
 Screen Length: 1. m
 Well Radius: 0.075 m

SOLUTION

Aquifer Model: Unconfined
 $K = 0.9745$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.1812$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4018-H3_1m.aqt
 Date: 03/18/26

Time: 09:17:19

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH4018-H3_1m
 Test Date: 30/09/2025

AQUIFER DATA

Saturated Thickness: 1. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4018-H3_1m)

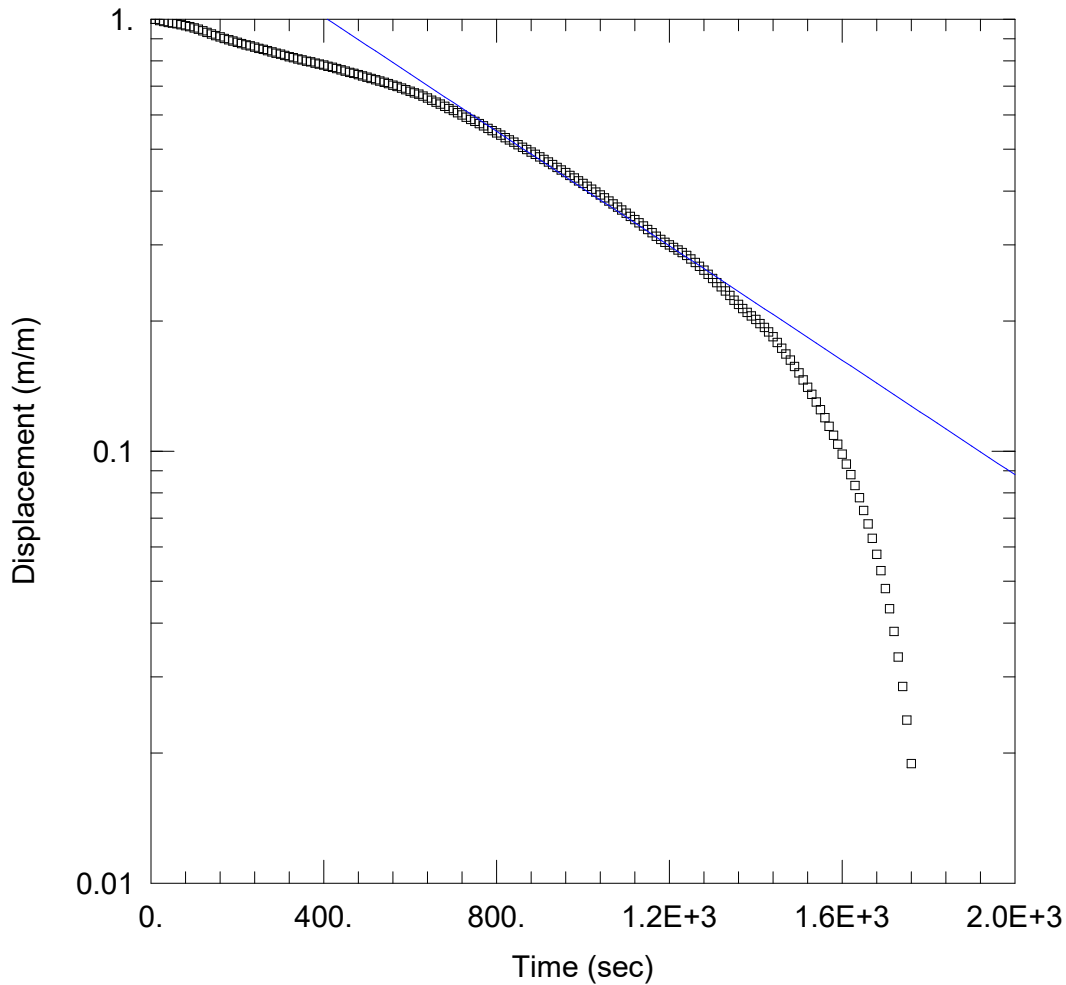
Initial Displacement: 0.2063 m
 Total Well Penetration Depth: 1. m
 Casing Radius: 0.075 m

Static Water Column Height: 0.2063 m
 Screen Length: 1. m
 Well Radius: 0.075 m

SOLUTION

Aquifer Model: Unconfined
 $K = 0.4848$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.2242$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020_12.83m(1)_v2.aqt

Date: 03/18/26

Time: 09:27:23

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4020_12.83m

Test Date: 19/09/2025

AQUIFER DATA

Saturated Thickness: 7.93 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH4020_12.83m(1))

Initial Displacement: 4.9 m

Static Water Column Height: 4.9 m

Total Well Penetration Depth: 12.83 m

Screen Length: 7.93 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

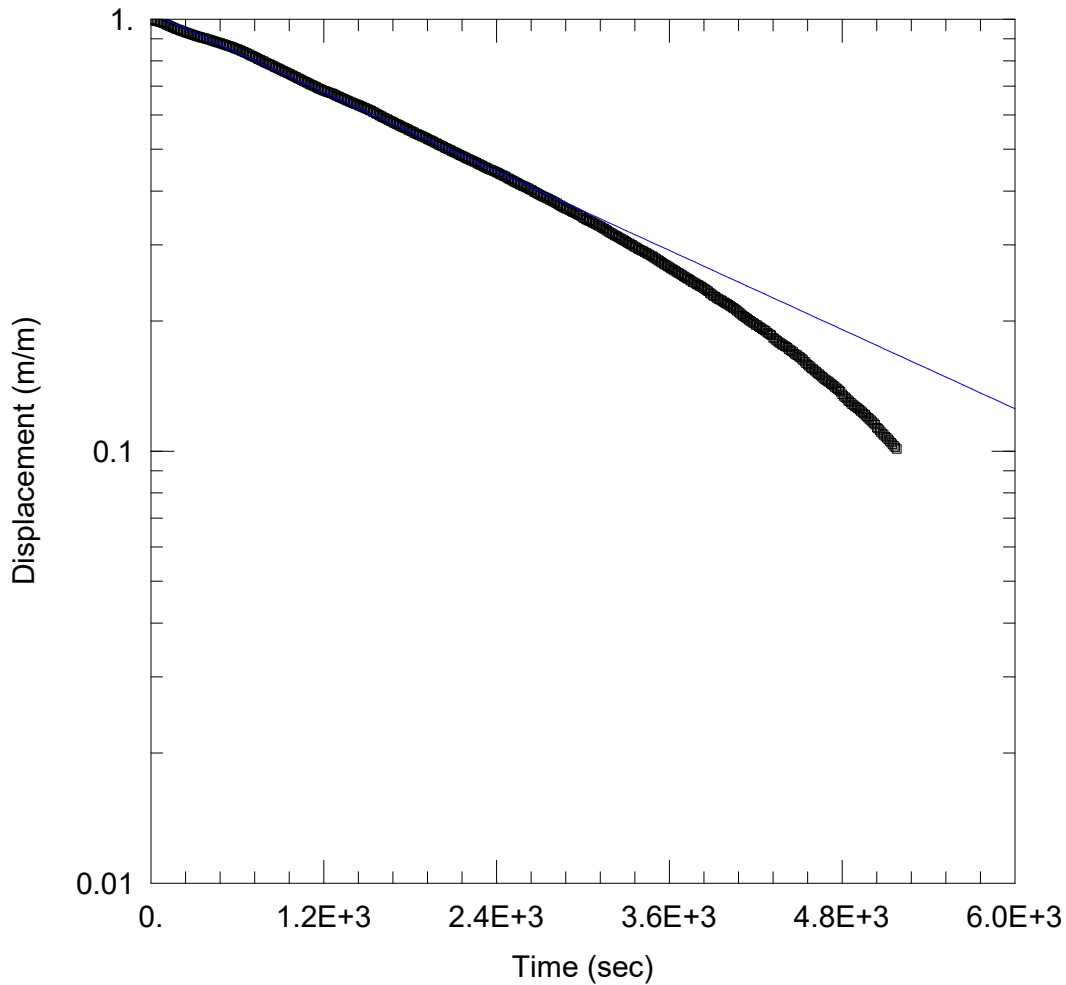
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.02519 m/day

y0 = 9.136 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020_12.83m(2).aqt

Date: 03/18/26

Time: 09:28:19

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4020_12.83m(2)

Test Date: 19/09/2025

AQUIFER DATA

Saturated Thickness: 10.71 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH4020_12.83m(2))

Initial Displacement: 10.71 m

Static Water Column Height: 10.71 m

Total Well Penetration Depth: 12.83 m

Screen Length: 10.71 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

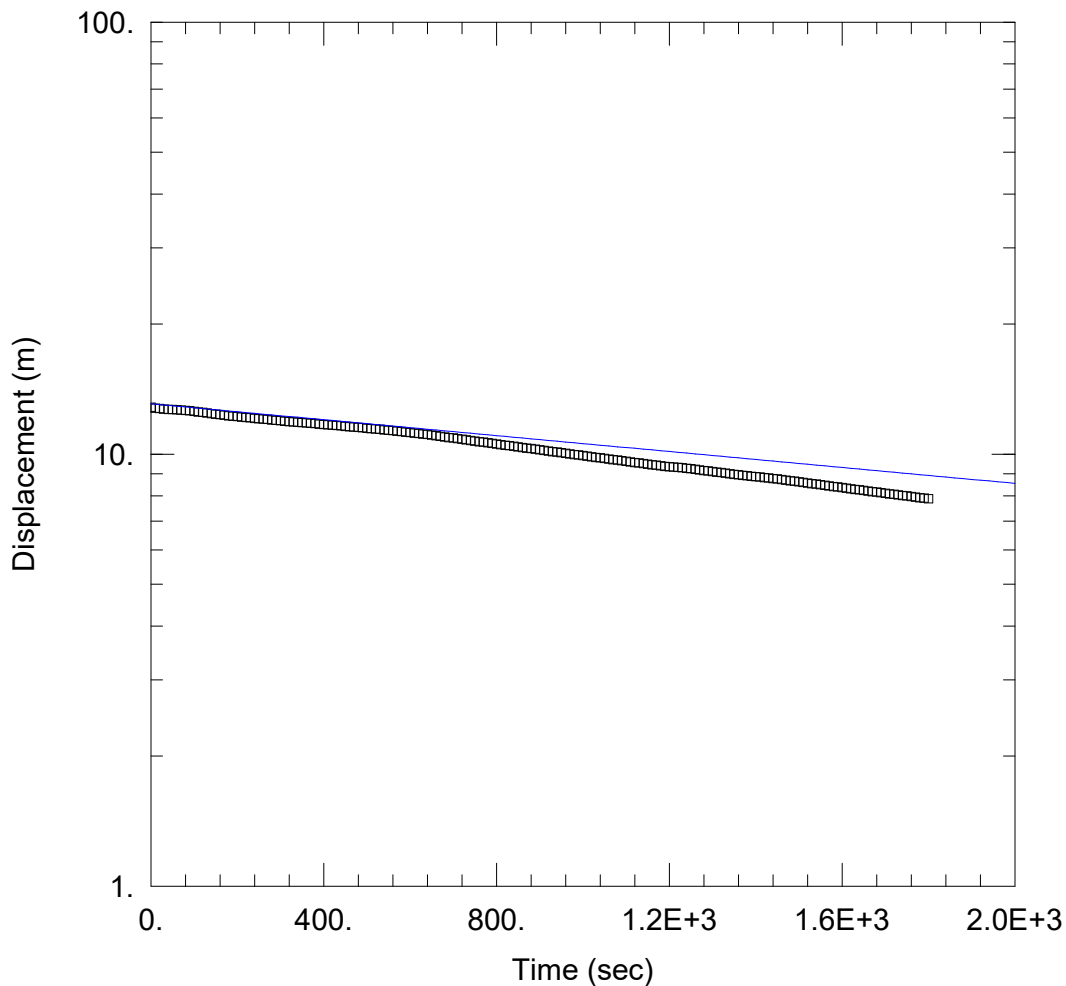
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.004393 m/day

y0 = 11.07 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020_60m(1).aqt
 Date: 03/18/26

Time: 09:30:14

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH4020_60m(1)
 Test Date: 30/09/2025

AQUIFER DATA

Saturated Thickness: 47.17 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH4020_60m(1))

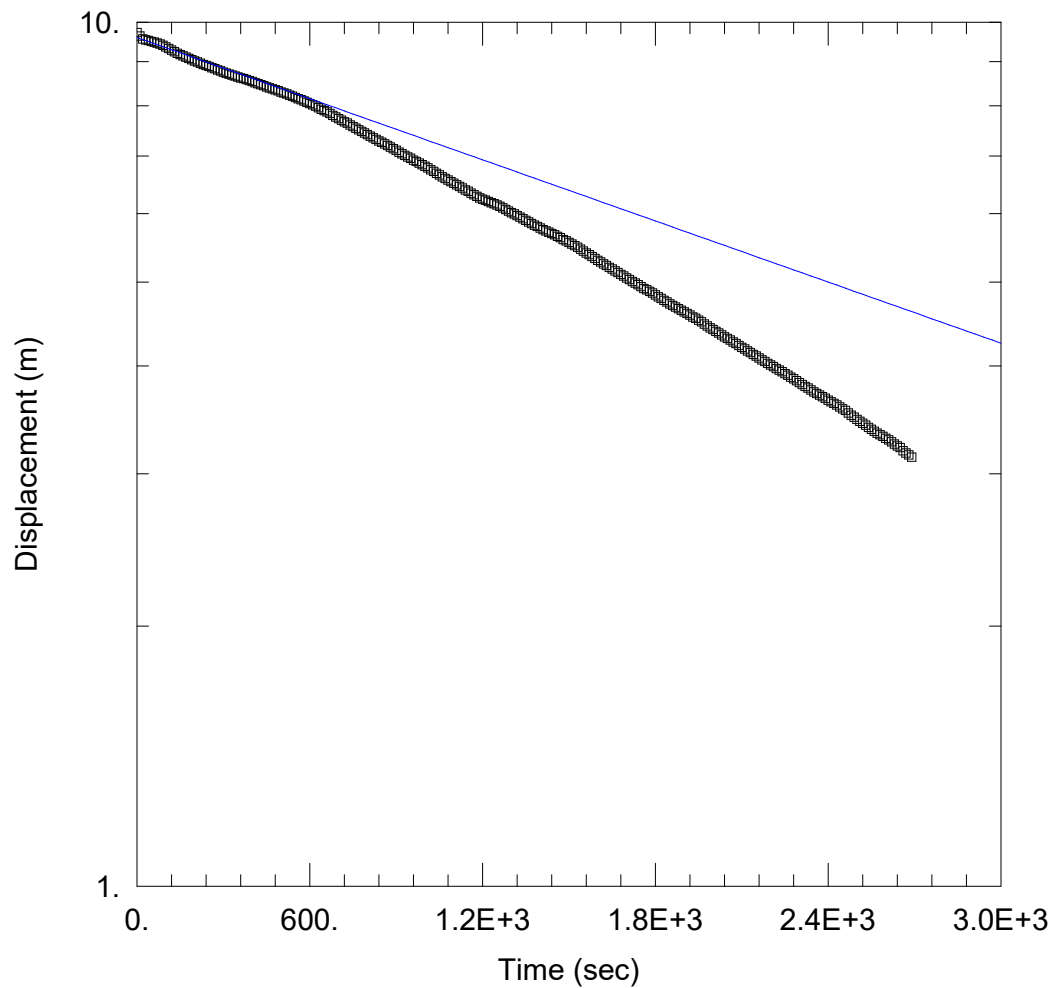
Initial Displacement: 12.83 m
 Total Well Penetration Depth: 60.01 m
 Casing Radius: 0.025 m

Static Water Column Height: 47.17 m
 Screen Length: 60. m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.0008112 m/day

Solution Method: Bouwer-Rice
 y0 = 13.08 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020_60m(2).aqt
 Date: 03/18/26

Time: 09:31:22

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH4020_60m(2)
 Test Date: 30/09/2025

AQUIFER DATA

Saturated Thickness: 50.27 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH4020_60m(2))

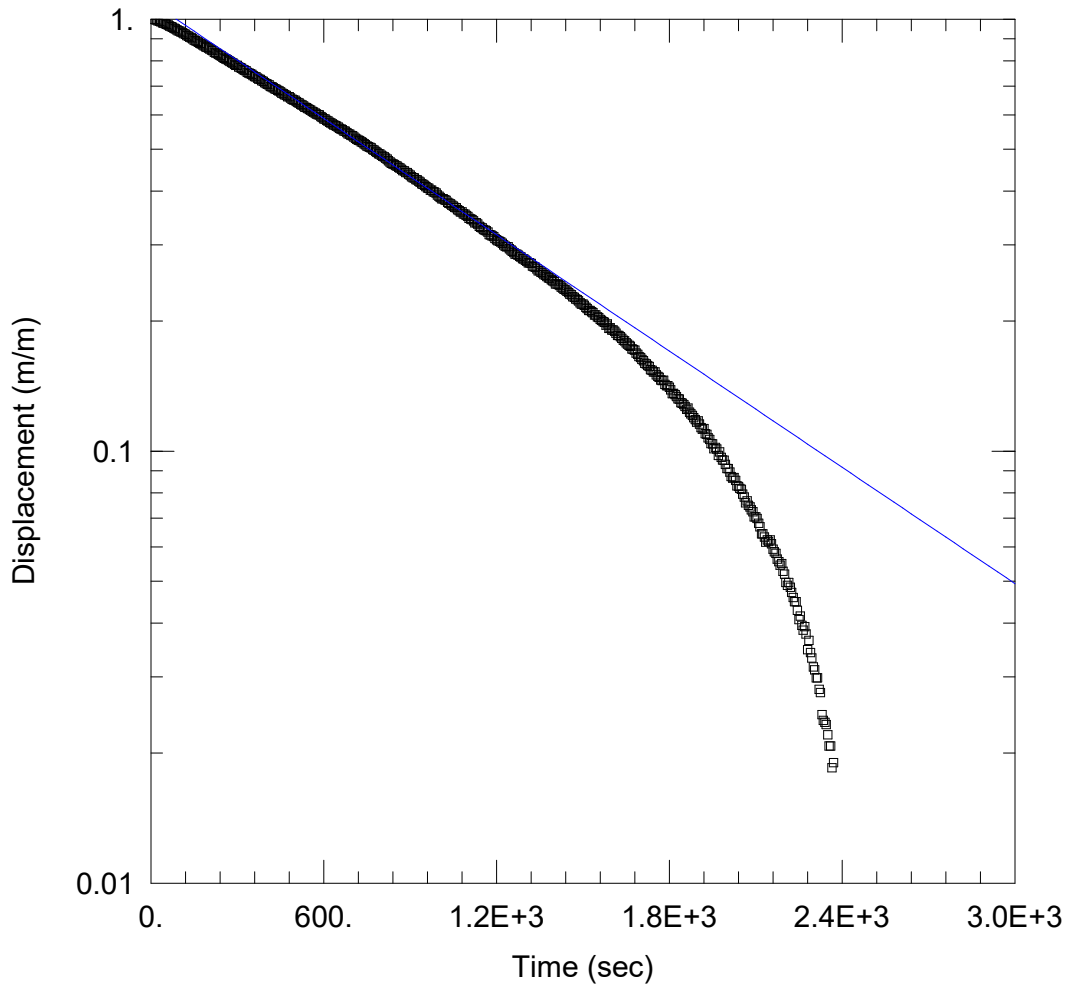
Initial Displacement: 9.73 m
 Total Well Penetration Depth: 60.01 m
 Casing Radius: 0.025 m

Static Water Column Height: 50.27 m
 Screen Length: 60. m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.0009772 m/day

Solution Method: Bouwer-Rice
 y0 = 9.597 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020-H1_1m(1).aqt

Date: 03/18/26

Time: 09:18:41

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4020-H1_1m(1)

Test Date: 28/09/2025

AQUIFER DATA

Saturated Thickness: 1. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4020-H1_1m(1))

Initial Displacement: 0.3949 m

Static Water Column Height: 0.3949 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

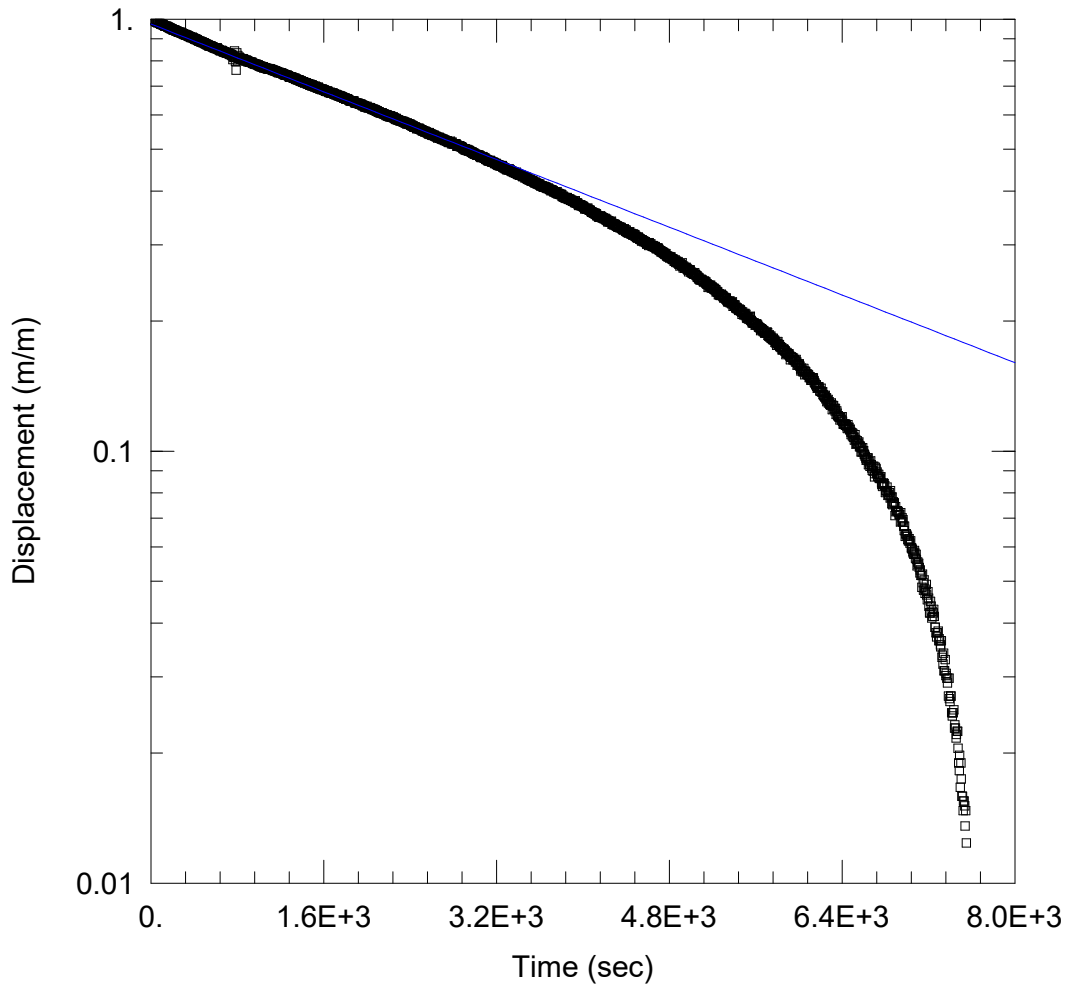
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.4668$ m/day

$y_0 = 0.4322$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020-H1_1m(2).aqt

Date: 03/18/26

Time: 09:19:32

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH4020-H1_1m(2)

Test Date: 29/09/2025

AQUIFER DATA

Saturated Thickness: 1. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4020-H1_1m(2))

Initial Displacement: 0.2582 m

Static Water Column Height: 0.2582 m

Total Well Penetration Depth: 1. m

Screen Length: 1. m

Casing Radius: 0.075 m

Well Radius: 0.075 m

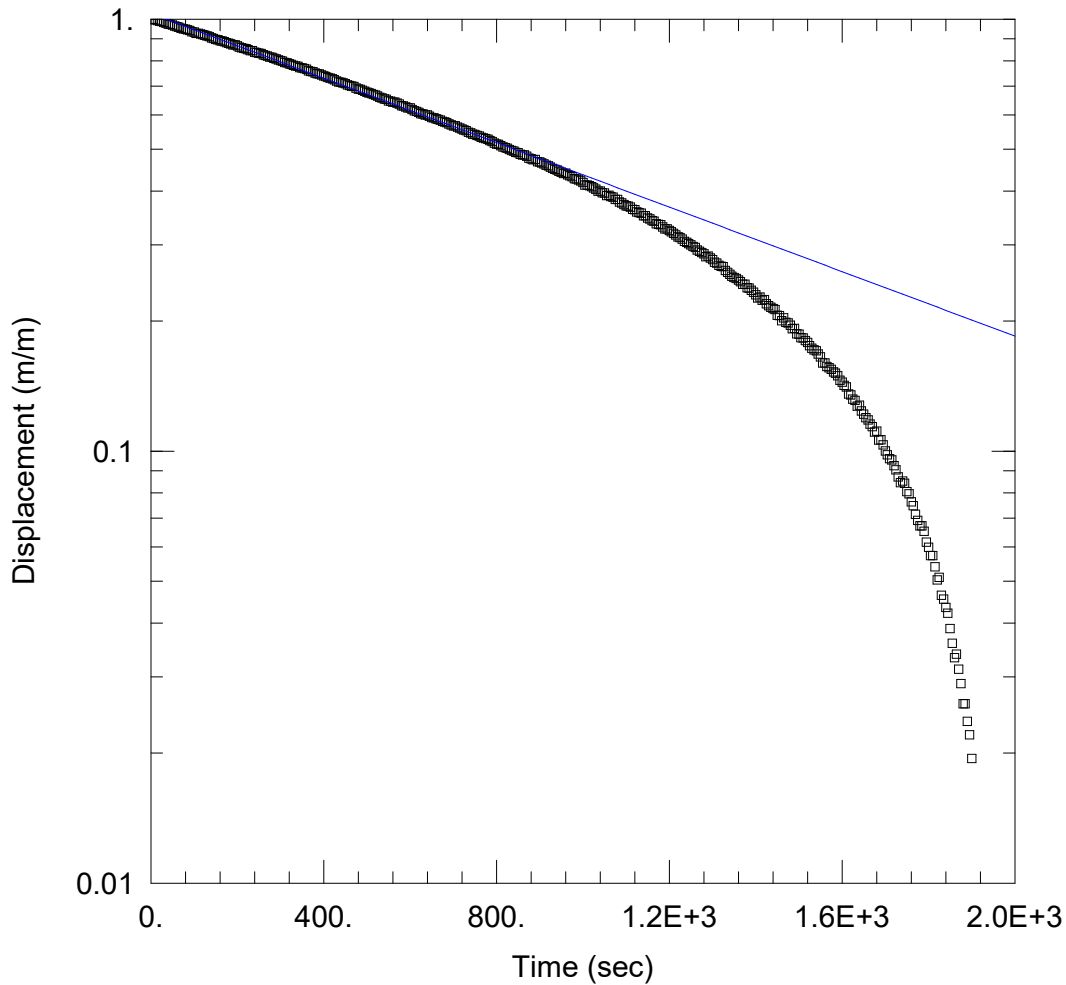
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

$K = 0.102$ m/day

$y_0 = 0.2515$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH4020-H2_1m.aqt
 Date: 03/18/26

Time: 09:20:21

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH4020-H2_1m
 Test Date: 29/09/2025

AQUIFER DATA

Saturated Thickness: 1. m

Anisotropy Ratio (K_z/K_r): 1.

WELL DATA (BH4020-H2_1m)

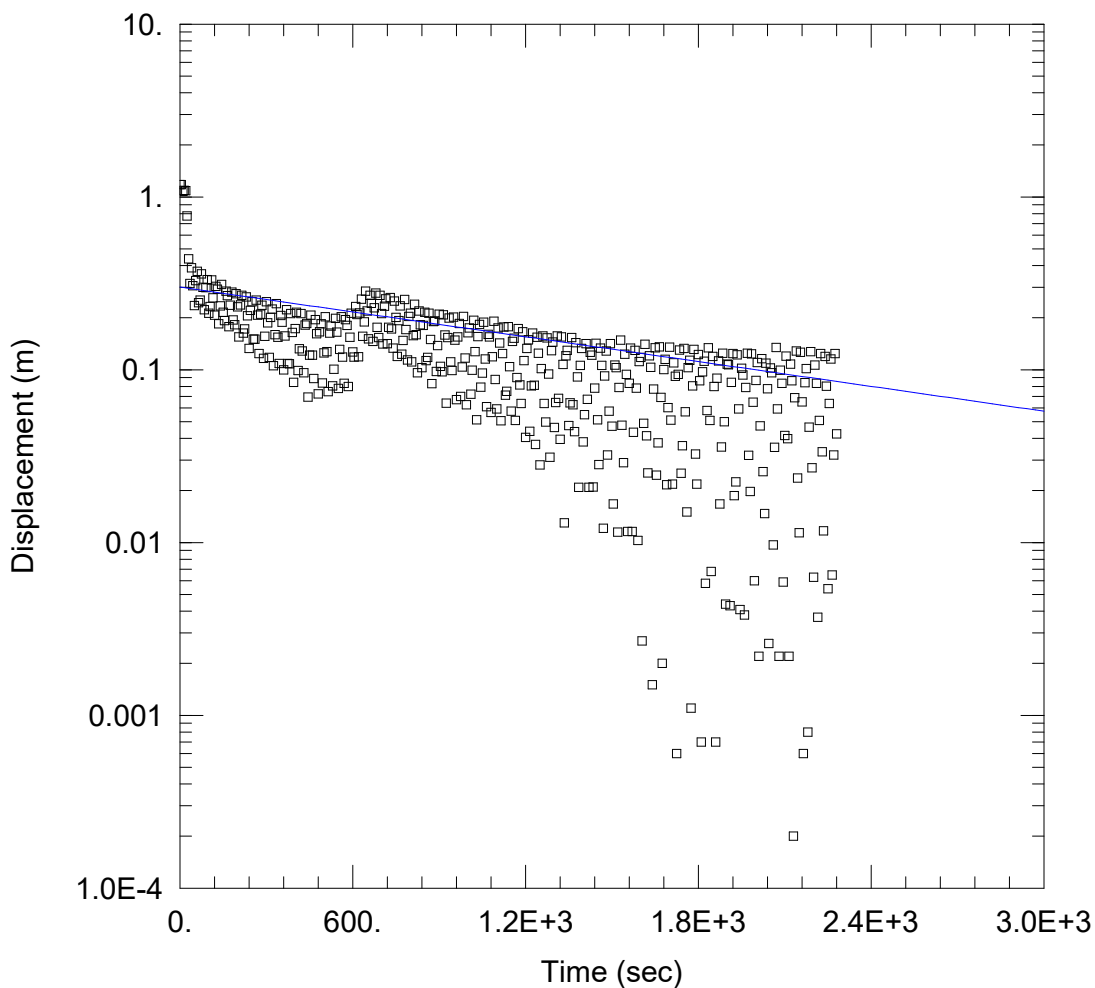
Initial Displacement: 0.3038 m
 Total Well Penetration Depth: 1. m
 Casing Radius: 0.075 m

Static Water Column Height: 0.3038 m
 Screen Length: 1. m
 Well Radius: 0.075 m

SOLUTION

Aquifer Model: Unconfined
 $K = 0.3884$ m/day

Solution Method: Bouwer-Rice
 $y_0 = 0.3129$ m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1006-D_9.7m.aqt

Date: 04/01/26

Time: 08:05:45

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1006-D_9.7m

Test Date: 01/02/2025

AQUIFER DATA

Saturated Thickness: 9.7 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1006-D_9.7m)

Initial Displacement: 1.18 m

Static Water Column Height: 0. m

Total Well Penetration Depth: 9.7 m

Screen Length: 9.7 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

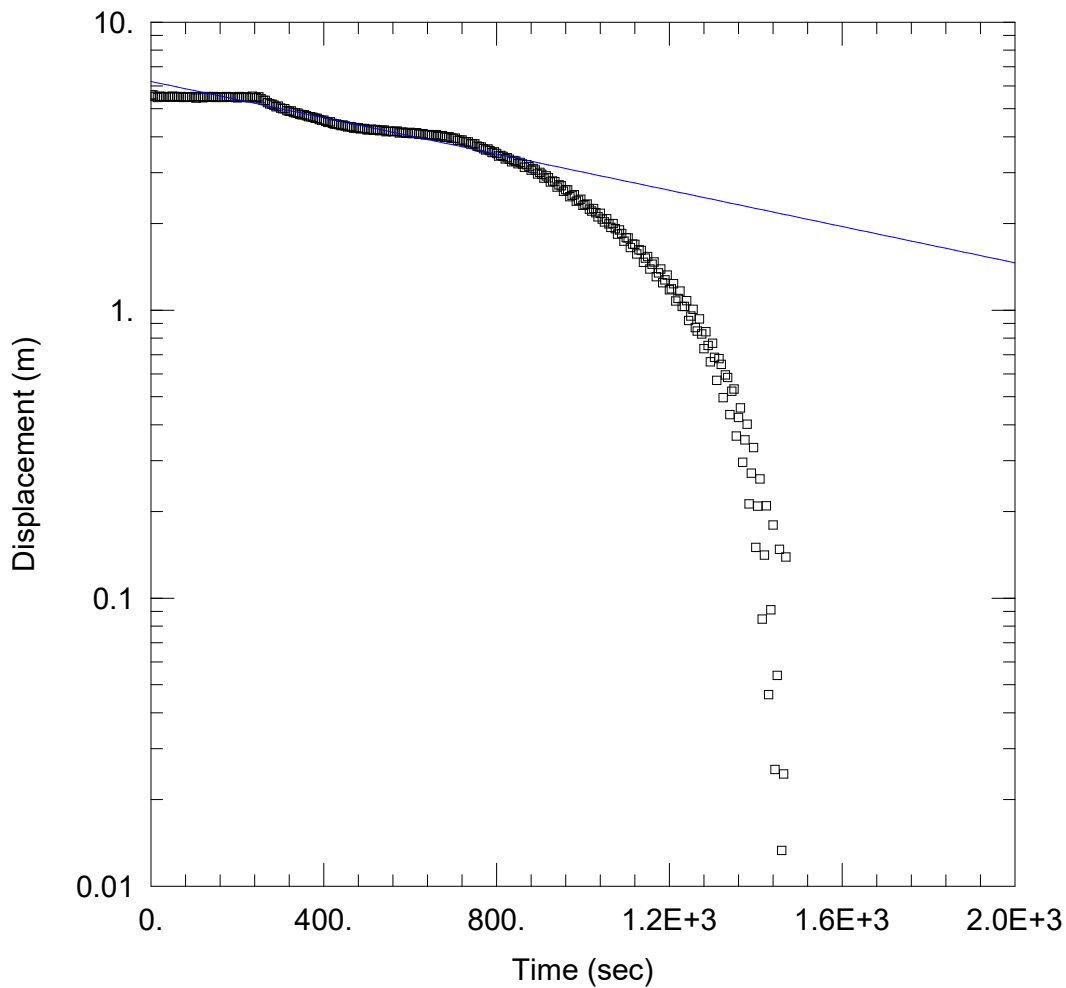
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.007251 m/day

y0 = 0.3005 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1006-D_38.2m.aqt
 Date: 04/01/26

Time: 08:37:30

PROJECT INFORMATION

Company: KCB
 Client: OK Tedi Mining Limited
 Project: 01D09135A95
 Location: PNG
 Test Well: BH1006-D_38.2m
 Test Date: 3/02/2025

AQUIFER DATA

Saturated Thickness: 38.2 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1006-D_38.2m)

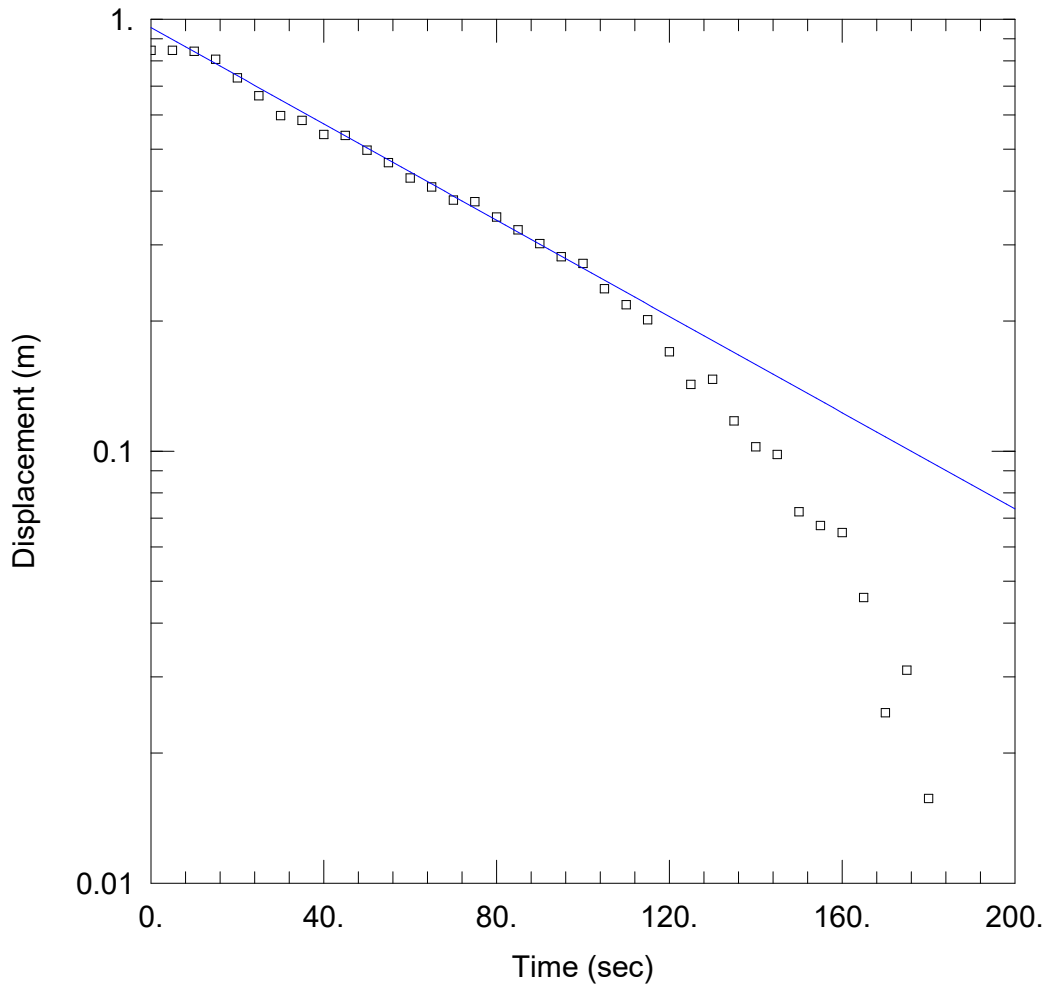
Initial Displacement: 5.592 m
 Total Well Penetration Depth: 38.2 m
 Casing Radius: 0.025 m

Static Water Column Height: 0. m
 Screen Length: 38.2 m
 Well Radius: 0.025 m
 Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined
 K = 0.003202 m/day

Solution Method: Bouwer-Rice
 y0 = 6.222 m



WELL TEST ANALYSIS

Data Set: Z:\...\BH1006-D_50.2m.aqt

Date: 04/01/26

Time: 08:37:10

PROJECT INFORMATION

Company: KCB

Client: OK Tedi Mining Limited

Project: 01D09135A95

Location: PNG

Test Well: BH1006-D_50.2m

Test Date: 5/02/2025

AQUIFER DATA

Saturated Thickness: 37.72 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH1006-D_50.2m)

Initial Displacement: 0.8471 m

Static Water Column Height: 0.48 m

Total Well Penetration Depth: 38.2 m

Screen Length: 37.72 m

Casing Radius: 0.025 m

Well Radius: 0.025 m

Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 0.05736 m/day

y0 = 0.9558 m

APPENDIX D

Laboratory CoC's: Samples Submitted to ALS

Mandatory Fields				CHAIN OF CUSTODY										Page 1 of 1																	
CLIENT CODE:				*PROJECT MANAGER:		Jaco Nel				SAMPLER		Istvan Raba				CoC #: (if applicable)															
*CLIENT:		KCB AUSTRALIA PTY LTD		*PM MOBILE:		0415433423				SAMPLER MOBILE:		437161908																			
OFFICE (Invoiced Office):				ALS QUOTE # (Client PI if blank):		EB2025KCB AUS0010				PURCHASE ORDER NO.:																					
PROJECT NO./PROJECT:		01D09135A95								SITE:		OTML Lowlands																			
*INVOICE TO: (Client default if nil)				apaus@klohn.com jnel@klohn.com, jnel@klohn.com								☐ CC Invoice to PM		BIOSECURITY																	
*EMAIL REPORTS TO: (default to PM if blank)				jdutoit@klohn.com, jnel@klohn.com, ajohnson@klohn.com										Country of Origin (if not Austral)		PNG															
EDD Format/Type ->				EDD Email Address:																											
*STORAGE REQUIREMENTS Please check box. Standard Storage (default to PM if blank) Extended Storage Specify Disposal Dates Waters - 3 weeks Soils - 2 months Note: Extended storage incurs a fee and requires a signed agreement.		☒ Standard Storage ☐ Extended Storage		*TURNAROUND Please check box. (Not all tests can be expedited, contact Client Services for more information)		☒ 5+ days (no surcharge) ☐ 3 day (+15%) ☐ 2 day (+30%) ☐ 1 day (+50%)																									
Comments: Field measurement of pH, EC, ORP, DO and Turbidity was taken during sampling. All samples in 60ml red bottles were filtered but not acidified as required for air freight.																															
ALS Use Only		Sample ID		Depth/Description		Date/Time		No. Bottles		MATRIX/SUBSTRATE: Soil/Solids/ Water(W) Sediments (SO), Dust(D), Product(PI) Bots (B), B solid (BS)		Basic CSG Suite (CSG-1)		Total Dissolved Solids - Standard Level (EA015H)		Anions by IC - Trace Level (ED009 UT)		Acidity as CaCO3 only (S4) (ED038P CaCO3)		Sulfate (Turbidimetric) as SO4.2 by Discrete Analyser (ED041G)		ICP/MS Dissolved Metals - Full Scan (MS 02)		Stable Isotopes - Deuterium and Oxygen 18 (STABISOWAT 3)		Lab QC (additional bottles req.) Dup MS		Additional Information (Comment on hazards - e.g. asbestos, known high contamination)			
Lab ID																															
1		KCB25-BH1002D		Groundwater		12/12/2025 08:34		3		W		X		X		X		X		X		X		X							
2		KCB25-BH1001S		Groundwater		12/12/2025 09:10		3		W		X		X		X		X		X		X		X							
3		KCB25-BH1002S		Groundwater		12/12/2025 12:06		3		W		X		X		X		X		X		X		X							
4		KCB25-BH1001D		Groundwater		12/12/2025 12:38		3		W		X		X		X		X		X		X		X							
5		KCB25-BH1005S		Groundwater		12/12/2025 16:12		3		W		X		X		X		X		X		X		X							
6		DH14-BIR-01B		Groundwater		11/12/2025 07:38		3		W		X		X		X		X		X		X		X							
7		DH14-BIR-02B		Groundwater		11/12/2025 08:48		3		W		X		X		X		X		X		X		X							
8		DH14-BIR-03B		Groundwater		11/12/2025 10:58		3		W		X		X		X		X		X		X		X							
9		OK Tedi U/S		Surface Water		11/12/2025 12:35		3		W		X		X		X		X		X		X		X							
10		OK Yak		Surface Water		11/12/2025 12:50		3		W		X		X		X		X		X		X		X							
11		OK Birim D/S		Surface Water		11/12/2025 13:05		3		W		X		X		X		X		X		X		X							
12		OX Bow		Surface Water		11/12/2025 13:38		3		W		X		X		X		X		X		X		X							
13		OK Birim U/S		Surface Water		11/12/2025 09:58		3		W		X		X		X		X		X		X		X							
14		Unnamed Stream 1		Surface Water		10/12/2025 13:39		3		W		X		X		X		X		X		X		X							
15		Indo Road Stream 1		Surface Water		10/12/2025 12:26		3		W		X		X		X		X		X		X		X							
16		Indo Road Stream 2		Surface Water		10/12/2025 11:52		3		W		X		X		X		X		X		X		X							
17		Indo Road Stream 3		Surface Water		10/12/2025 11:24		3		W		X		X		X		X		X		X		X							
18		Indo Road Stream 4		Surface Water		10/12/2025 10:55		3		W		X		X		X		X		X		X		X							
Receipt Detail (Lab Use ONLY)		Chilling Method: Ice Frozen / Melted		Ice Bricks: Frozen / Thawed None		Sample Temp at Receipt: °C °C °C		Security Seal Intact (circle) Yes / No / NA(Null)		Carrier Details: ☐ Courier/Post ☐ Client		Con Note #		Packaging (Circle) Count		Hard Esky		Foam Esky		Box/Bag/Other											
Relinquished by:		Signature:		Date/Time:				Received by:		Signature:		Date/Time:																			
Relinquished by:		Signature:		Date/Time:				Received by:		Signature:		Date/Time:																			

Environmental Division
Brisbane
Work Order Reference
EB2545661



Telephone : + 61-7-3552-6686

Date/Time: 19/12/25 1620

Mandatory Fields				CHAIN OF CUSTODY												Page 1 of 1							
CLIENT CODE:		*PROJECT MANAGER:	Jaco Nel	SAMPLER:	Andile Dlamini								CoC #: (if applicable)										
*CLIENT:	KCB AUSTRALIA PTY LTD	*PM MOBILE:	0448060156	SAMPLER MOBILE:	0452420459																		
OFFICE: (Invoiced Office)		ALS QUOTE # (Client PL if blank)	EB2025KCBASU0010	PURCHASE ORDER NO.:																			
PROJECT NO./PROJECT:	01D09135A95			SITE:	OTML Lowlands																		
*INVOICE TO: (client default: if nil)	apaus@klohn.com jnel@klohn.com, jnel@klohn.com												☐ CC Invoice to PM		BIOSECURITY								
*EMAIL REPORTS TO: (default to PM if blank)	jdutoit@klohn.com, jnel@klohn.com, ajohnson@klohn.com												*ANALYSIS REQUIRED <small>(NB, ALS Quote No. and/or Analysis Suite Codes must be listed to attract suite/quoted price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). Mark an X in the boxes below analysis to indicate the parameter listed above to be tested on that sample.</small>		Country of Origin: PNG (if not Australia)								
EDD Format/Type →		EDD Email Address:																					
* STORAGE REQUIREMENTS <small>Please check box: →</small> Standard Storage time from receipt of samples: Waters - 3 weeks Soils - 2 months				☒ Standard Storage ☐ Extended Storage Specify Disposal Date: Note: Extended storage incurs a fee and requires a signed agreement.		* TURNAROUND <small>Please check box: →</small> (Not all tests can be expedited, contact Client Services for more information)		☒ 5+ days (no surcharge) ☐ 3 day (+15%) ☐ 2 day (+30%) ☐ 1 day (+50%)															
Comments: Field measurement of pH, EC & Temperature was taken during sampling. All samples in 60ml red bottles were filtered but not acidified as required for air freight.																							
ALS Use Only		Sample ID		Depth/Description		Date/Time		No. Bottles		MATRIX/SUBMATRIX: Soil/Solid(S) Water(W) Sediment(SD), Dust(D), Product(P), Biotra(B), Biosolid(BS)		Basic CSG Suite (CSG-1): Total Dissolved Solids - Standard Level (EA01SH) Anions by IC - Trace Level (ED009-UT) Acidity as CaCO3 only (ED038P CaCO3) Sulfate (Turbidimetric) as SO4 2 by Discrete Analyser (ED042-G) ICP/MS Dissolved Metals - Full Scan (ME-02) Stable Isotopes - Deuterium and Oxygen 18 (STABISOWAT-2) Total Nitrogen, TKN, NO3-, NO2-, NH4+ Total Phosphorus, Reactive Phosphorus (NT-8A)											
Lab ID																							
1		KCB25-BH1006-D		Groundwater		17/02/2026		3		W		☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒											
2		KCB25-BH1006-S		Groundwater		18/02/2026		3		W		☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒											
												☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐											
												☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐											
												☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐											
												☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐											
Receipt Detail (Lab Use ONLY)		Chilling Method: Ice: Frozen / Melted Ice Bricks: Frozen / Thawed None		Sample Temp at Receipt		°C °C °C		Security Seal Intact (circle)		Yes / No / NA(None)		Carrier Details		☐ Courier/Post ☐ Client		Packaging: (Circle) Hard Esky Foam Esky Box/Bag/Other Count: # # #							
Relinquished by: Signature:										Date/Time:		Received by: Signature:										Date/Time:	
Relinquished by: Signature:										Date/Time:		Received by: Signature:										Date/Time:	

Mandatory Fields				CHAIN OF CUSTODY												Page 1 of 1																	
CLIENT CODE:				*PROJECT MANAGER:		Jaco Nel				SAMPLER:		J du Toit				CoC R: (if applicable)																	
*CLIENT:		KCB AUSTRALIA PTY LTD		*PM MOBILE:		0448060156				SAMPLER MOBILE:		0415433423																					
OFFICE: (Invoiced Office)				ALS QUOTE # (Client PL if blank)		EB2025KCBASU0010				PURCHASE ORDER NO.:																							
PROJECT NO./PROJECT		01D09135A95								SITE:		OTML Lowlands																					
*INVOICE TO: (client default only)		apaus@klohn.com inel@klohn.com												☐ CC Invoice to PM		BIOSECURITY																	
*EMAIL REPORTS TO: (default to PL if blank)		jdutoit@klohn.com, inel@klohn.com, ajohnson@klohn.com																															
EDD Format/Type →		EDD Email Address:																															
* STORAGE REQUIREMENTS Please check box. → Standard Storage time from receipt of samples: Waters - 3 weeks Soils - 2 months		☒ Standard Storage ☐ Extended Storage Specify Disposal Date: Note: Extended storage incurs a fee and requires a signed agreement.		* TURNAROUND Please check box. → (Not all tests can be expedited, contact Client Services for more information)		☒ 5+ days (no surcharge) ☐ 3 day (+15%) ☐ 2 day (+30%) ☐ 1 day (+50%)																											
Comments: Field measurement of pH, EC & Temperature was taken during sampling. All samples in 60ml red bottles were filtered but not acidified as required for air freight.														MATRIX/SUBSTRATE: Soil/Sediment/Water/Water DO, T, pH, EC, Conductivity, Product (P), BOD (B), Residual (RS)																			
ALS Use Only Lab ID		Sample ID		Depth/Description		Date/Time		No. Bottles		Basic CSG Suite (CSG-1)		Total Dissolved Solids - Standard Level (EA015H)		Anions by IC - Trace Level (ED009-UT)		Acidity as CaCO3 only (ED038P CaCO3)		Sulfate (Turbidimetric) as SO4 2 by Discrete Analyser (ED041G)		IC/MS Dissolved Metals - Full Scan (ME 02)		Total Nitrogen, TKN, NO3, NO2, NH4, Total Phosphorus, Reactive Phosphorus (NT-8A)		Total Suspended Solids (EA025H)		Acidity as CaCO3 ED038		Lab QC (additional bottles req.) Dup MS		Additional Information (Comment on hazards - e.g., asbestos, known high contamination)			
1		Indo Stream 1		Surface Water		08/03/2026 09:20		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2		Indo Road 2		Surface Water		09/03/2026 08:40		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3		Indo Stream 3		Surface Water		07/03/2026 12:35		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4		Indo Stream 4		Surface Water		07/03/2026 11:18		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5		Indo Stream 5		Surface Water		07/03/2026 11:36		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6		Indo Stream 6		Surface Water		07/03/2026 11:22		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7		Indo Stream 7		Surface Water		07/03/2026 08:23		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8		Indo Stream 8		Surface Water		07/03/2026 08:47		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9		Indo Stream 9		Surface Water		07/03/2026 10:46		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10		Indo Stream 10		Surface Water		07/03/2026 10:34		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
11		Indo Stream 11		Surface Water		07/03/2026 09:56		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
12		Indo Stream 12		Surface Water		07/03/2026 09:38		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13		Indo Stream 13		Surface Water		07/03/2026 09:27		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14		Indo Stream 14		Surface Water		07/03/2026 09:13		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15		OK Yep		Surface Water		08/03/2026 11:20		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16		OK Karandimok		Surface Water		08/03/2026 13:16		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17		Ox Bow		Surface Water		08/03/2026 11:05		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18		OK Tedi U/S		Surface Water		08/03/2026 13:55		3		W		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Receipt Detail (Lab Use ONLY)		Chilling Method: Frozen / Melted		Ice Bricks: Frozen / Thawed		None		Sample Temp at Receipt: °C °C °C		Security Seal Intact (circle) Yes / No / NA(None)		Carrier Details: ☐ Courier/Post ☐ Client		Con Note #		Packaging: (Circle) Count		Hard Esly #		Foam Esly #		Box/Bag/Other #											
Requisitioned by:		Signature:		Date/Time:				Received by:		Signature:		Date/Time:																					
Requisitioned by:		Signature:		Date/Time:				Received by:		Signature:		Date/Time:																					

Environmental Division
Brisbane
Work Order Reference
EB2609231



Telephone : + 61-7-3552-8698

Mandatory Fields				CHAIN OF CUSTODY												Page ____ of ____									
CLIENT CODE: KCB Aus PTY Ltd.				*PROJECT MANAGER: Jaco Nel				SAMPLER: J. du Toit				CoC #: (if applicable)													
*CLIENT:				*PM MOBILE: 844 806 0156				SAMPLER MOBILE: 0415 433 423																	
OFFICE: (Invoiced Office)				ALS QUOTE # (Client PL if blank) EB2025KCB AUS 0010				PURCHASE ORDER NO.:																	
PROJECT NO./PROJECT: 01D09135A95				SITE: OTML Lowlands																					
*INVOICE TO: (client default if nil) Apaus@klohn.com ; jnel@klohn.com								☐ CC Invoice to PM				BIOSECURITY													
*EMAIL REPORTS TO: (default to PM if blank) jnel@klohn.com ; jduitoit@klohn.com ; ajohnson@klohn.com				*ANALYSIS REQUIRED <small>(NB. ALS Quote No. and/or Analysis Suite Codes must be listed to attract suite/quoted price) Where Metals are required, specify Total (unfiltered bottle required) or Dissolved (field filtered bottle required). Mark an X in the boxes below analysis to indicate the parameter listed above to be tested on that sample.</small>												Country of Origin: (if not Australia) PNG									
* STORAGE REQUIREMENTS <small>Please check box.</small> ☐ Standard Storage ☐ Extended Storage Standard Storage time from receipt of samples: Waters - 3 weeks Soils - 2 months Specify Disposal Date: <small>Note: Extended storage incurs a fee and requires a signed agreement.</small>				* TURNAROUND <small>Please check box.</small> ☐ 5+ days (no surcharge) ☐ 3 day (+15%) ☐ 2 day (+30%) ☐ 1 day (+50%) <small>(Not all tests can be expedited, contact Client Services for more information)</small>																WO Sticker to go here. (ALS use only)					
Comments:				MATRIX: Soil/Solid(S) Water(W) Sediments (SD) Dust (D) Product (P) Biosol (BS)																					
ALS Use Only		Sample ID		Depth		Date/Time		No. Bottles														Lab QC (additional bottles req.)		Additional Information (Comment on hazards - e.g., asbestos, known high contamination)	
Lab ID																						Dup			
		*As per email																				☐		☐	
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Mandatory Fields			CHAIN OF CUSTODY										Page _1_ of _1_		
*CLIENT:	KCB AUSTRALIA PTY LTD	*PROJECT MANAGER:	Jaco Nel	SAMPLER:	J du Toit								<div style="font-size: small;">CoC #: 0415433423</div> <div style="float: right;"></div>		
*OFFICE: <small>(Invoice Office)</small>		*PM MOBILE:	0448060156	SAMPLER MOBILE:	0415433423										
*PROJECT NO / PROJECT:	01D09135A95	ALS QUOTE # <small>(Check PM if blank)</small>	EB2025KCB AUS0010	PURCHASE ORDER NO.											
*INVOICE TO: <small>(person default if not)</small>	apaus@klohn.com jnel@klohn.com					☐ CC invoice to PM	BIOSECURITY								
*EMAIL REPORTS TO: <small>(default to PM if blank)</small>	jdutoit@klohn.com, jnel@klohn.com, ajohnson@klohn.com					*ANALYSIS REQUIRED <small>(NB: ALS Quote No. and/or Analysis Job Code must be listed to attract subcontracted price) Where Metals are tested specify Total suspended solids measured as Dissolved Filtered Solids required. Mark an X in the boxes below analysis to indicate the parameter listed above to be tested on that sample.</small>									
*FORMAT TYPE:		FIDU Email Address:													
*STORAGE REQUIREMENTS <small>Please check box Standard Storage time from receipt of samples: Waters - 3 weeks Soils - 2 months</small>		☒ Standard Storage ☐ Extended Storage Specify Disposal Date: <i>Note: Extended storage incurs a fee and requires a signed agreement.</i>	*TURNAROUND <small>Please check box (Not all tests can be expedited, contact Client Services for more information)</small>		☒ 5+ days (no surcharge) ☐ 3 day (-15%) ☐ 2 day (-30%) ☐ 1 day (-50%)										
Comments: Field measurement of pH, EC & Temperature was taken during sampling. All samples in 60ml red bottles were filtered but not acidified as required for air freight.						MATRIX/SUBMATRIX: <small>(SOI, Dredge, P, Borehole Product P/B, Bulk Soil, Sludge etc.)</small>									
ALS Use Only	Sample ID	Depth/Description	Date/Time	No. Bottles	MATRIX/SUBMATRIX	Basic CSO-Sure (CSG-1)	Total Dissolved Solids (Standard Level) (EAD-5H)	Anions by IC - Titron Level (ED009/LIT)	Acidity as CaCO3 eq./L (ED03BP-CAC03)	Sulfate Turbidimetric as SO4=2 by Direct Analyser (ED04TG)	ICP-MSS Dissolved Metals - Full Scan (ME-02)	Total Nitrogen (TKN)-NO ₂ -NH ₄ -Total Phosphorus Reactive Phosphorous (NT-BA)	Total Suspended Solids	Lab QC (additional bottle req.)	A/C Comment or
Lab ID														DUP	MS
1	OK Blm U/S	Surface Water	08/03/2026 13:32	3	W	X	X	X	X	X	X	X	X	☐	☐
2	OK Todi D/S	Surface Water	08/03/2026 11:42	3	W	X	X	X	X	X	X	X	X	☐	☐
3	P1 Deep	Groundwater	08/03/2026 08:48	3	W	X	X	X	X	X	X	X		☐	☐
4	P1 Shallow	Groundwater	08/03/2026 08:58	3	W	X	X	X	X	X	X	X		☐	☐
5	P2 Deep	Groundwater	09/03/2026 08:30	3	W	X	X	X	X	X	X	X		☐	☐
6	P2 Shallow	Groundwater	09/03/2026 08:50	3	W	X	X	X	X	X	X	X		☐	☐
7	P5 Shallow	Groundwater	09/03/2026 11:08	3	W	X	X	X	X	X	X	X		☐	☐
8	P4 Stream	Surface Water	07/03/2026	2	W	X	X	X	X	X	X	X		☐	☐
9	P6 Rain	Surface Water	18/02/2026 09:45	1	W			X						☐	☐
10	P4 - Rain	Surface Water	07/03/2026	1	W			X						☐	☐
11	Alice Pit Rain	Surface Water	28/02/2026	1	W			X						☐	☐
12	Alice Pit Rain	Surface Water	22/02/2026	1	W			X						☐	☐
13	Alice Pit Rain	Surface Water	09/03/2026	1	W			X						☐	☐
14	P3 Shallow	Groundwater	10/03/2026 11:05	3	W	X	X	X	X	X	X	X		☐	☐
15	P3 Deep	Groundwater	10/03/2026 10:52	3	W	X	X	X	X	X	X	X		☐	☐
16	P3 Drinking Water Stream	Surface Water	10/03/2026 11:35	3	W	X	X	X	X	X	X	X		☐	☐
17	DH14 BR 01B	Groundwater	11/03/2026 12:25	3	W	X	X	X	X	X	X	X		☐	☐
18	DH14 BR 02B	Groundwater	11/03/2026 10:09	3	W	X	X	X	X	X	X	X		☐	☐
19	DH14 BR 03B	Groundwater	10/03/2026 08:52	3	W	X	X	X	X	X	X	X		☐	☐
Receipt Detail <small>(initials date)</small>		Cooking Method	Ice <small>Frozen / Melted</small>	Ice Bricks <small>Frozen / Thawed</small>	NONE	Sampling Temp at Reception	°C °C °C	Security Seal Intact (circle)	Yes / No / N/A(None)	Current Details	☐ Courier/Post ☐ Client	Packaging (Circle)	Hard Esky Foam Esky Box/Bag/Other		
										Con Note #		Count	# # #		

Environmental Division
Brisbane
Work Order Reference
EB2609481



Telephone: 01-7-3552-8639



Australian Government
Department of Agriculture,
Fisheries and Forestry

GOODS RECEIVED BY:	NATASHA HICKEY
SIGNATURE:	(Print Name)
DATE:	16/3/2026
BIOSECURITY OFFICER:	Teresa

Move goods
Biosecurity Act 2015

Reference Number: PCK26-665799

Traveller Intervention ID: INT-22437277-D7N5Y

DU TOIT, JOHANNES HENDRIK		0413433423	
JOHANNES DU TOIT C/O ALS 2 BYTH STREET		JOHAN35@GMAIL.COM	
STAFFORD			
QLD			
4053			
AUSTRALIA			
Flight or Vessel Particulars		Inspection Location	
QF58		Brisbane Airport 0418 736 698	
Inspection date			
13/03/2026			
Description	Weight/No	Origin of Goods	Action
Water - Contaminated	1 Units	Papua New Guinea (PNG)	Movement
Permit number			
Service fee		Receipt Number:	
\$			
N/A			

Biosecurity Officer:

I am an authorised biosecurity officer under s.545(1) of the Act. I assessed your goods on 13/03/2026 at Brisbane Airport.

Movement direction: Biosecurity Act s.138 (1)(a) pursuant to s132 (a)

I direct you to move the goods directly and as soon as practicable to Australian Laboratory Services Pty Ltd
Failure to comply with a direction issued by a biosecurity officer under s.138(1)(a) is an offence which may result in a penalty or imprisonment under s.140(2) or a civil penalty under s.140(3). Failure to comply with the conditions of your import permit is an offence under s.186 of the Act for which the penalty is imprisonment, a financial penalty or both.

T Short

13/03/2026

Biosecurity Officer

Date

APPENDIX E

Water Quality Laboratory Results



CERTIFICATE OF ANALYSIS

Work Order : **EB2540753**
Client : **KCB AUSTRALIA PTY LTD**
Contact : JACO NEL
Address : LEVEL 3 150 MARY STREET
BRISBANE 4000
Telephone : ----
Project : 01D09135A95
Order number : ----
C-O-C number : ----
Sampler : ANGELO JOHNSON
Site : OTML Lowlands
Quote number : EB25KCBAUS0010
No. of samples received : 9
No. of samples analysed : 9

Page : 1 of 11
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3552-8685
Date Samples Received : 18-Nov-2025 16:23
Date Analysis Commenced : 18-Nov-2025
Issue Date : 25-Nov-2025 11:16



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist	Brisbane Inorganics, Stafford, QLD
Mark Hallas	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H⁺ to the Cations and Nitrate, SiO₂ and Fluoride to the Anions.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25-BH4018	----	----	----	----
Sampling date / time				05-Oct-2025 00:00	----	----	----	----	
Compound	CAS Number	LOR	Unit	EB2540753-004	-----	-----	-----	-----	
				Result	----	----	----	----	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	8.21	----	----	----	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	2.17	----	----	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	290	----	----	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	160	----	----	----	----	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	188	----	----	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	64	----	----	----	----	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.22	----	----	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	----	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	----	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	164	----	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	164	----	----	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	----	----	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	----	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	24	----	----	----	----	
Magnesium	7439-95-4	1	mg/L	1	----	----	----	----	
Sodium	7440-23-5	1	mg/L	40	----	----	----	----	
Potassium	7440-09-7	1	mg/L	2	----	----	----	----	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				KCB25-BH4018	----	----	----	----
Sampling date / time				05-Oct-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EB2540753-004	-----	-----	-----	-----
Result				Result	----	----	----	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	<0.01	----	----	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	----	----	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	----	----	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	----	----	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	----	----	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	----	----	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	----	----	----	----
Strontium	7440-24-6	0.001	mg/L	0.129	----	----	----	----
Barium	7440-39-3	0.001	mg/L	0.004	----	----	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	----	----	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	----	----	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	----	----	----	----
Gallium	7440-55-3	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	----	----	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	----	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	----	----	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	----	----	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	----	----	----	----
Caesium	7440-46-2	0.001	mg/L	<0.001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	----	----	----	----
Rubidium	7440-17-7	0.001	mg/L	0.004	----	----	----	----
Lithium	7439-93-2	0.001	mg/L	<0.001	----	----	----	----

Sub-Matrix: GROUNDWATER
(Matrix: WATER)

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25-BH4018	----	----	----	----
				Sampling date / time	05-Oct-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EB2540753-004	-----	-----	-----	-----	-----
				Result	----	----	----	----	----
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	----	----	----	----	----
Thorium	7440-29-1	0.001	mg/L	<0.001	----	----	----	----	----
Cerium	7440-45-1	0.001	mg/L	<0.001	----	----	----	----	----
Manganese	7439-96-5	0.001	mg/L	0.032	----	----	----	----	----
Neodymium	7440-00-8	0.001	mg/L	<0.001	----	----	----	----	----
Molybdenum	7439-98-7	0.001	mg/L	<0.001	----	----	----	----	----
Praseodymium	7440-10-0	0.001	mg/L	<0.001	----	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----	----
Samarium	7440-19-9	0.001	mg/L	<0.001	----	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----	----
Terbium	7440-27-9	0.001	mg/L	<0.001	----	----	----	----	----
Antimony	7440-36-0	0.001	mg/L	<0.001	----	----	----	----	----
Thulium	7440-30-4	0.001	mg/L	<0.001	----	----	----	----	----
Selenium	7782-49-2	0.010	mg/L	<0.010	----	----	----	----	----
Ytterbium	7440-64-4	0.001	mg/L	<0.001	----	----	----	----	----
Tin	7440-31-5	0.001	mg/L	<0.001	----	----	----	----	----
Yttrium	7440-65-5	0.001	mg/L	<0.001	----	----	----	----	----
Thallium	7440-28-0	0.001	mg/L	<0.001	----	----	----	----	----
Zirconium	7440-67-7	0.005	mg/L	<0.005	----	----	----	----	----
Vanadium	7440-62-2	0.01	mg/L	<0.01	----	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----	----
Iron	7439-89-6	0.05	mg/L	<0.05	----	----	----	----	----
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	14464-46-1	0.1	mg/L	19.3	----	----	----	----	----
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.1	----	----	----	----	----
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25-BH4018	----	----	----	----
				Sampling date / time	05-Oct-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		EB2540753-004	-----	-----	-----	-----
				Result		----	----	----	----
EN055: Ionic Balance - Continued									
ø Total Anions	----	0.01	meq/L		3.28	----	----	----	----
ø Total Cations	----	0.01	meq/L		3.07	----	----	----	----
ø Ionic Balance	----	0.01	%		3.24	----	----	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		<1	----	----	----	----



Analytical Results

Sub-Matrix: RAIN WATER (Matrix: WATER)				Sample ID	Rain8D250805	Rain 18/08-22/08	Rain 22/08-26/08	Rain 8D250811	----
Sampling date / time					05-Aug-2025 00:00	22-Aug-2025 00:00	26-Aug-2025 00:00	11-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit		EB2540753-006	EB2540753-007	EB2540753-008	EB2540753-009	-----
					Result	Result	Result	Result	----
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L		0.75	0.17	0.05	0.67	----

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sample ID

Sub-Matrix: SURFACE WATER (Matrix: WATER)			Sample ID	Drinking Spring	Kungimbat Spring	P5 Spring 2	P5 Spring 1	----
Sampling date / time				11-Oct-2025 00:00	11-Oct-2025 00:00	18-Oct-2025 00:00	17-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit	EB2540753-001	EB2540753-002	EB2540753-003	EB2540753-005	-----
				Result	Result	Result	Result	----
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	6.20	6.32	6.48	6.34	----
EA006: Sodium Adsorption Ratio (SAR)								
^ Sodium Adsorption Ratio	----	0.01	-	0.12	0.12	0.12	0.12	----
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	6	6	9	8	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	<10	<10	<10	<10	----
EA016: Calculated TDS (from Electrical Conductivity)								
Total Dissolved Solids (Calc.)	----	10	mg/L	<10	<10	<10	<10	----
EA065: Total Hardness as CaCO3								
Total Hardness as CaCO3	----	1	mg/L	<1	<1	<1	<1	----
ED009: Anions								
Chloride	16887-00-6	0.01	mg/L	0.14	0.10	0.19	0.27	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	3	3	5	3	----
Total Alkalinity as CaCO3	----	1	mg/L	3	3	5	3	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	<1	<1	<1	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	<1	<1	<1	<1	----
Magnesium	7439-95-4	1	mg/L	<1	<1	<1	<1	----
Sodium	7440-23-5	1	mg/L	<1	<1	<1	<1	----
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	----
EG020F: Dissolved Metals by ICP-MS								



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				Drinking Spring	Kungimbat Spring	P5 Spring 2	P5 Spring 1	----
Sampling date / time				11-Oct-2025 00:00	11-Oct-2025 00:00	18-Oct-2025 00:00	17-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit	EB2540753-001	EB2540753-002	EB2540753-003	EB2540753-005	-----
				Result	Result	Result	Result	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.01	<0.01	0.02	0.02	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Strontium	7440-24-6	0.001	mg/L	0.007	0.008	0.012	0.007	----
Barium	7440-39-3	0.001	mg/L	0.019	0.009	0.009	0.009	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----
Rubidium	7440-17-7	0.001	mg/L	<0.001	<0.001	0.002	0.001	----
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Drinking Spring	Kungimbat Spring	P5 Spring 2	P5 Spring 1	----
Sampling date / time				11-Oct-2025 00:00	11-Oct-2025 00:00	18-Oct-2025 00:00	17-Oct-2025 00:00	----	
Compound	CAS Number	LOR	Unit	EB2540753-001	EB2540753-002	EB2540753-003	EB2540753-005	-----	
				Result	Result	Result	Result	----	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Manganese	7439-96-5	0.001	mg/L	0.012	0.030	<0.001	0.006	----	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Selenium	7782-49-2	0.010	mg/L	<0.010	<0.010	<0.010	<0.010	----	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	----	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.012	<0.005	----	
Iron	7439-89-6	0.05	mg/L	<0.05	0.06	<0.05	<0.05	----	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	14464-46-1	0.1	mg/L	7.0	4.0	11.5	8.7	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	----	
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Drinking Spring	Kungimbat Spring	P5 Spring 2	P5 Spring 1	----
Sampling date / time					11-Oct-2025 00:00	11-Oct-2025 00:00	18-Oct-2025 00:00	17-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit		EB2540753-001	EB2540753-002	EB2540753-003	EB2540753-005	-----
					Result	Result	Result	Result	----
EN055: Ionic Balance - Continued									
∅ Total Anions	----	0.01	meq/L		0.06	0.06	0.10	0.06	----
∅ Total Cations	----	0.01	meq/L		<0.01	<0.01	<0.01	<0.01	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		2	2	3	3	----



CERTIFICATE OF ANALYSIS

Work Order	: EB2545661	Page	: 1 of 18
Amendment	: 1		
Client	: KCB AUSTRALIA PTY LTD	Laboratory	: Environmental Division Brisbane
Contact	: JACO NEL	Contact	: Customer Services EB
Address	: LEVEL 3 150 MARY STREET BRISBANE 4000	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3552-8685
Project	: 01D09135A95	Date Samples Received	: 19-Dec-2025 10:20
Order number	: ----	Date Analysis Commenced	: 23-Dec-2025
C-O-C number	: ----	Issue Date	: 06-Jan-2026 17:08
Sampler	: ISTVAN RABA		
Site	: OTML Lowlands		
Quote number	: EB25KCBAUS0010		
No. of samples received	: 18		
No. of samples analysed	: 18		



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H⁺ to the Cations and Nitrate, SiO₂ and Fluoride to the Anions.
- Ionic Balance out of acceptable limits for some samples due to analytes not quantified in this report.
- Amendment (6/01/2026): This report has been amended and re-released to allow the reporting of additional analytical data, specifically suite NT-08A (Total Nitrogen, TKN, NO_x, NO₃⁻, NO₂⁻, NH₄⁺, Total Phosphorus, Reactive Phosphorous) for all samples submitted for this work order.
- It is recognised that EK067G (Total Phosphorus) is less than EK071G (Reactive Phosphorus) for sample KCB25-BH1002D (EB2545661-001). However, the difference is within experimental variation of the methods.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	KCB25-BH1002D	KCB25-BH1001S	KCB25-BH1002S	KCB25-BH1001D	KCB25-BH1005S
Sampling date / time				12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	
Compound	CAS Number	LOR	Unit	EB2545661-001	EB2545661-002	EB2545661-003	EB2545661-004	EB2545661-005	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	7.42	7.50	7.35	7.63	7.54	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	1.97	0.39	3.23	3.57	0.84	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	185	219	338	266	216	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	168	153	349	176	170	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	120	142	220	173	140	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	36	101	70	35	77	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.87	0.62	7.57	0.42	0.43	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	90	120	154	151	115	
Total Alkalinity as CaCO3	----	1	mg/L	90	120	154	151	115	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	2	2	<1	<1	4	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	1	1	8	<1	<1	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	11	37	28	14	26	
Magnesium	7439-95-4	1	mg/L	2	2	<1	<1	3	
Sodium	7440-23-5	1	mg/L	27	9	63	50	17	
Potassium	7440-09-7	1	mg/L	3	1	2	2	3	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				KCB25-BH1002D	KCB25-BH1001S	KCB25-BH1002S	KCB25-BH1001D	KCB25-BH1005S
Sampling date / time				12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00
Compound	CAS Number	LOR	Unit	EB2545661-001	EB2545661-002	EB2545661-003	EB2545661-004	EB2545661-005
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	<0.01	0.08	0.04	<0.01	<0.01
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.001	0.001	0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.139	0.164	0.095	0.139	0.285
Barium	7440-39-3	0.001	mg/L	0.011	0.013	0.015	0.013	0.015
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Rubidium	7440-17-7	0.001	mg/L	0.004	0.003	0.006	0.004	0.003
Lithium	7439-93-2	0.001	mg/L	0.001	<0.001	0.008	0.003	0.002

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	KCB25-BH1002D	KCB25-BH1001S	KCB25-BH1002S	KCB25-BH1001D	KCB25-BH1005S
Sampling date / time				12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	
Compound	CAS Number	LOR	Unit	EB2545661-001	EB2545661-002	EB2545661-003	EB2545661-004	EB2545661-005	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Manganese	7439-96-5	0.001	mg/L	0.065	0.081	0.083	0.025	0.091	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	7439-98-7	0.001	mg/L	0.001	0.003	0.010	0.003	0.002	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	7440-66-6	0.005	mg/L	0.006	<0.005	<0.005	<0.005	<0.005	
Iron	7439-89-6	0.05	mg/L	0.09	0.12	0.19	0.05	<0.05	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	14464-46-1	0.1	mg/L	64.1	22.9	18.8	15.4	57.6	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.1	<0.1	<0.1	<0.1	<0.1	
EK055G: Ammonia as N by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	KCB25-BH1002D	KCB25-BH1001S	KCB25-BH1002S	KCB25-BH1001D	KCB25-BH1005S
Sampling date / time					12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00	12-Dec-2025 00:00
Compound	CAS Number	LOR	Unit		EB2545661-001	EB2545661-002	EB2545661-003	EB2545661-004	EB2545661-005
					Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser - Continued									
Ammonia as N	7664-41-7	0.01	mg/L		<0.01	0.05	0.08	0.07	<0.01
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		<0.1	0.9	1.5	0.2	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		<0.1	0.9	1.5	0.2	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.10	0.08	0.03	0.03	0.10
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.13	0.06	<0.01	0.01	0.04
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		1.87	2.47	3.30	3.02	2.38
∅ Total Cations	----	0.01	meq/L		1.96	2.43	4.19	2.92	2.36
∅ Ionic Balance	----	0.01	%		----	----	11.8	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		3	3	5	3	4

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH14-BIR-01B	BH14-BIR-02B	BH14-BIR-03B	OK Tedi U/S	OK Yak
Sampling date / time				11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	
Compound	CAS Number	LOR	Unit	EB2545661-006	EB2545661-007	EB2545661-008	EB2545661-009	EB2545661-010	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	7.37	6.37	7.23	7.88	8.17	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.02	0.05	0.02	0.10	0.04	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	223	34	221	193	98	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	140	21	145	132	78	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	145	22	144	125	64	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	111	15	115	71	35	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.14	0.17	0.17	0.42	0.17	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	123	18	123	502	82	
Total Alkalinity as CaCO3	----	1	mg/L	123	18	123	502	82	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	2	<1	<1	28	6	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	<1	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	43	6	46	25	14	
Magnesium	7439-95-4	1	mg/L	1	<1	<1	2	<1	
Sodium	7440-23-5	1	mg/L	<1	<1	<1	2	<1	
Potassium	7440-09-7	1	mg/L	1	<1	<1	1	<1	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				BH14-BIR-01B	BH14-BIR-02B	BH14-BIR-03B	OK Tedi U/S	OK Yak
Sampling date / time				11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00
Compound	CAS Number	LOR	Unit	EB2545661-006	EB2545661-007	EB2545661-008	EB2545661-009	EB2545661-010
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.02	<0.01	<0.01	0.44	0.11
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.205	0.020	0.133	0.183	0.093
Barium	7440-39-3	0.001	mg/L	0.068	0.008	0.015	0.019	0.005
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	0.005	0.003
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Rubidium	7440-17-7	0.001	mg/L	0.006	<0.001	<0.001	0.003	0.002
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

Sub-Matrix: WATER
(Matrix: WATER)

Sampling date / time

EG020F: Dissolved Metals by ICP-MS - Continued

Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	0.001	<0.001
Manganese	7439-96-5	0.001	mg/L	0.104	0.015	0.154	0.060	0.022
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	<0.001	0.003	<0.001
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	0.75	0.45	0.08

Silicon as SiO2	14464-46-1	0.1	mg/L	2.2	3.2	10.0	5.8	6.8
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Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
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Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH14-BIR-01B	BH14-BIR-02B	BH14-BIR-03B	OK Tedi U/S	OK Yak
Sampling date / time					11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00
Compound	CAS Number	LOR	Unit		EB2545661-006	EB2545661-007	EB2545661-008	EB2545661-009	EB2545661-010
					Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser - Continued									
Ammonia as N	7664-41-7	0.01	mg/L		<0.01	<0.01	0.09	<0.01	<0.01
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		0.06	0.06	<0.01	0.01	0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		0.06	0.06	<0.01	0.01	0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.7	0.3	0.3	1.1	0.8
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		0.8	0.4	0.3	1.1	0.8
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.10	0.11	0.03	1.94	0.75
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	0.01
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		2.50	0.36	2.46	10.6	1.76
∅ Total Cations	----	0.01	meq/L		2.25	0.30	2.30	1.52	0.70
∅ Ionic Balance	----	0.01	%		----	----	----	74.9	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		4	11	6	2	<1

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	OK Birim U/S	OX Bow	OK Birim D/S	Unnamed Stream 1	Indo Road Stream 1
Sampling date / time				11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	
Compound	CAS Number	LOR	Unit	EB2545661-011	EB2545661-012	EB2545661-013	EB2545661-014	EB2545661-015	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	6.71	6.74	8.03	6.28	6.35	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.17	0.04	0.06	0.10	0.06	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	56	78	135	13	27	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	59	69	110	18	30	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	36	51	88	<10	18	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	25	37	52	2	12	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.07	0.20	0.24	0.42	0.17	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	33	39	264	7	12	
Total Alkalinity as CaCO3	----	1	mg/L	33	39	264	7	12	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1	2	14	<1	1	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	<1	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	10	13	19	1	5	
Magnesium	7439-95-4	1	mg/L	<1	1	1	<1	<1	
Sodium	7440-23-5	1	mg/L	2	<1	1	<1	<1	
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	<1	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				OK Birim U/S	OX Bow	OK Birim D/S	Unnamed Stream 1	Indo Road Stream 1
Sampling date / time				11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00
Compound	CAS Number	LOR	Unit	EB2545661-011	EB2545661-012	EB2545661-013	EB2545661-014	EB2545661-015
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.02	0.15	0.09	0.02	0.01
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.079	0.093	0.123	0.015	0.038
Barium	7440-39-3	0.001	mg/L	0.005	0.007	0.007	0.004	0.011
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	0.002	0.004	<0.001	<0.001
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Rubidium	7440-17-7	0.001	mg/L	0.001	0.002	0.002	<0.001	0.002
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	OK Birim U/S	OX Bow	OK Birim D/S	Unnamed Stream 1	Indo Road Stream 1
Sampling date / time				11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	
Compound	CAS Number	LOR	Unit	EB2545661-011	EB2545661-012	EB2545661-013	EB2545661-014	EB2545661-015	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Manganese	7439-96-5	0.001	mg/L	0.016	0.027	0.028	0.007	0.046	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	0.002	<0.001	<0.001	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
Iron	7439-89-6	0.05	mg/L	<0.05	0.16	0.06	<0.05	0.06	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	14464-46-1	0.1	mg/L	6.8	7.8	6.0	7.3	11.9	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
EK055G: Ammonia as N by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	OK Birim U/S	OX Bow	OK Birim D/S	Unnamed Stream 1	Indo Road Stream 1
Sampling date / time					11-Dec-2025 00:00	11-Dec-2025 00:00	11-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00
Compound	CAS Number	LOR	Unit		EB2545661-011	EB2545661-012	EB2545661-013	EB2545661-014	EB2545661-015
					Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser - Continued									
Ammonia as N	7664-41-7	0.01	mg/L		<0.01	0.02	0.01	0.02	<0.01
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	0.04	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	0.02	<0.01	<0.01	0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	0.06	<0.01	<0.01	0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.6	0.6	1.1	0.2	<0.1
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		0.6	0.7	1.1	0.2	<0.1
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.47	0.29	1.46	0.01	0.02
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.01	0.01	<0.01	<0.01	<0.01
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		0.68	0.82	5.57	0.14	0.26
∅ Total Cations	----	0.01	meq/L		0.59	0.73	1.07	0.05	0.25
∅ Ionic Balance	----	0.01	%		----	----	67.7	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		2	2	<1	2	3

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Indo Road Stream 2	Indo Road Stream 3	Indo Road Stream 4	----	----
Sampling date / time				10-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2545661-016	EB2545661-017	EB2545661-018	-----	-----	
				Result	Result	Result	----	----	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	6.18	6.17	6.52	----	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.07	0.08	0.08	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	14	14	8	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	17	16	13	----	----	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	<10	<10	<10	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	7	5	5	----	----	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.17	0.17	0.15	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	7	6	6	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	7	6	6	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	2	<1	<1	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	3	2	2	----	----	
Magnesium	7439-95-4	1	mg/L	<1	<1	<1	----	----	
Sodium	7440-23-5	1	mg/L	<1	<1	<1	----	----	
Potassium	7440-09-7	1	mg/L	<1	<1	<1	----	----	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				Indo Road Stream 2	Indo Road Stream 3	Indo Road Stream 4	----	----
Sampling date / time				10-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2545661-016	EB2545661-017	EB2545661-018	-----	-----
				Result	Result	Result	----	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.02	0.05	0.03	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Strontium	7440-24-6	0.001	mg/L	0.011	0.010	0.014	----	----
Barium	7440-39-3	0.001	mg/L	0.003	0.002	0.003	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Rubidium	7440-17-7	0.001	mg/L	<0.001	<0.001	0.001	----	----
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Indo Road Stream 2	Indo Road Stream 3	Indo Road Stream 4	----	----
Sampling date / time				10-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2545661-016	EB2545661-017	EB2545661-018	-----	-----	
				Result	Result	Result	----	----	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Manganese	7439-96-5	0.001	mg/L	0.024	0.003	0.002	----	----	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	----	----	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	----	----	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	----	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	<0.005	----	----	
Iron	7439-89-6	0.05	mg/L	0.09	0.10	<0.05	----	----	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	14464-46-1	0.1	mg/L	5.1	9.1	8.7	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	----	----	
EK055G: Ammonia as N by Discrete Analyser									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Indo Road Stream 2	Indo Road Stream 3	Indo Road Stream 4	----	----
Sampling date / time					10-Dec-2025 00:00	10-Dec-2025 00:00	10-Dec-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2545661-016	EB2545661-017	EB2545661-018	-----	-----
				Result	Result	Result		----	----
EK055G: Ammonia as N by Discrete Analyser - Continued									
Ammonia as N	7664-41-7	0.01	mg/L		0.02	<0.01	<0.01	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		0.01	<0.01	<0.01	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		0.01	<0.01	<0.01	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		<0.1	<0.1	<0.1	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		<0.1	<0.1	<0.1	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.02	0.02	0.02	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	----	----
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		0.18	0.12	0.12	----	----
∅ Total Cations	----	0.01	meq/L		0.15	0.10	0.10	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		4	4	3	----	----



CERTIFICATE OF ANALYSIS

Work Order : **EB2601789**
Client : **KCB AUSTRALIA PTY LTD**
Contact : JACO NEL
Address : LEVEL 3 150 MARY STREET
BRISBANE 4000
Telephone : ----
Project : 01D09135A95
Order number : ----
C-O-C number : ----
Sampler : A. JOHNSON
Site : OK Birim
Quote number : EB25KCBAUS0010
No. of samples received : 5
No. of samples analysed : 5

Page : 1 of 10
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3552-8685
Date Samples Received : 16-Jan-2026 08:54
Date Analysis Commenced : 18-Jan-2026
Issue Date : 23-Jan-2026 19:56



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- ED093F (Major Cations - Dissolved) /EG020-F (Dissolved Metals by ICP-MS)/ EA006 (Sodium Adsorption Ratio)/ EA065 (Total Hardness): Sample EB2601789_004(P3 - Rainwater) has been diluted due to limited sample volume. LOR adjusted accordingly.
- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H+ to the Cations and Nitrate, SiO2 and Fluoride to the Anions.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25 - BH1003	KCB25 - BH1003 - S	----	----	----
Sampling date / time				31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EB2601789-001	EB2601789-002	-----	-----	-----	
				Result	Result	----	----	----	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	12.2	7.43	----	----	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.18	0.50	----	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	4460	204	----	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	1020	143	----	----	----	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	2900	133	----	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	1120	72	----	----	----	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	1.04	5.43	----	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L	965	<1	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	58	<1	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	82	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	1020	82	----	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	15	2	----	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	1	6	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	448	29	----	----	----	
Magnesium	7439-95-4	1	mg/L	<1	<1	----	----	----	
Sodium	7440-23-5	1	mg/L	14	10	----	----	----	
Potassium	7440-09-7	1	mg/L	17	2	----	----	----	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				KCB25 - BH1003	KCB25 - BH1003 - S	----	----	----
Sampling date / time				31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2601789-001	EB2601789-002	-----	-----	-----
				Result	Result	----	----	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.44	0.02	----	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	----	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	----	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	----	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	----	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	----	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	----	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	----	----	----
Strontium	7440-24-6	0.001	mg/L	1.52	0.174	----	----	----
Barium	7440-39-3	0.001	mg/L	0.644	0.221	----	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	----	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	----	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	----	----	----
Gallium	7440-55-3	0.001	mg/L	0.004	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	----	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	----	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	----	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	----	----	----
Caesium	7440-46-2	0.001	mg/L	0.004	<0.001	----	----	----
Chromium	7440-47-3	0.001	mg/L	0.036	<0.001	----	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	0.002	<0.001	----	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	----	----	----
Rubidium	7440-17-7	0.001	mg/L	0.065	0.007	----	----	----
Lithium	7439-93-2	0.001	mg/L	0.098	0.004	----	----	----

Sub-Matrix: GROUNDWATER
(Matrix: WATER)

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25 - BH1003	KCB25 - BH1003 - S	----	----	----
Sampling date / time					31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2601789-001	EB2601789-002	-----	-----	-----	
				Result	Result	----	----	----	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	----	----	----	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	----	----	----	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	----	----	----	
Manganese	7439-96-5	0.001	mg/L	<0.001	0.127	----	----	----	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	----	----	----	
Molybdenum	7439-98-7	0.001	mg/L	0.004	0.001	----	----	----	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	----	----	----	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	----	----	----	
Lead	7439-92-1	0.001	mg/L	0.001	<0.001	----	----	----	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	----	----	----	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	----	----	----	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	----	----	----	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	----	----	----	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	----	----	----	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	----	----	----	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	----	----	----	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	----	----	----	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	----	----	----	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	----	----	----	
Zinc	7440-66-6	0.005	mg/L	0.100	0.016	----	----	----	
Iron	7439-89-6	0.05	mg/L	<0.05	<0.05	----	----	----	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	7440-21-3	0.1	mg/L	1.0	12.5	----	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	0.1	<0.1	----	----	----	
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25 - BH1003	KCB25 - BH1003 - S	----	----	----
Sampling date / time					31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EB2601789-001	EB2601789-002	-----	-----	-----
					Result	Result	----	----	----
EN055: Ionic Balance - Continued									
ø Total Anions	----	0.01	meq/L		20.7	1.85	----	----	----
ø Total Cations	----	0.01	meq/L		23.4	1.93	----	----	----
ø Ionic Balance	----	0.01	%		6.07	----	----	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		<1	2	----	----	----

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	P3 - Drill Stream	P3 - Rainwater	P3 - Drill Stream 2	----	----
Sampling date / time				31-Dec-2025 00:00	31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2601789-003	EB2601789-004	EB2601789-005	-----	-----	
				Result	Result	Result	----	----	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	6.16	6.31	6.28	----	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.12	<0.50	0.12	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	5	6	7	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	<10	<10	10	----	----	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	<10	<10	<10	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	<1	<50	<1	----	----	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.15	0.19	0.16	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	2	2	3	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	2	2	3	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	1	<1	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	<1	<5	<1	----	----	
Magnesium	7439-95-4	1	mg/L	<1	<5	<1	----	----	
Sodium	7440-23-5	1	mg/L	<1	<5	<1	----	----	
Potassium	7440-09-7	1	mg/L	<1	<5	<1	----	----	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				P3 - Drill Stream	P3 - Rainwater	P3 - Drill Stream 2	----	----
Sampling date / time				31-Dec-2025 00:00	31-Dec-2025 00:00	31-Dec-2025 00:00	----	----
Compound	CAS Number	LOR	Unit	EB2601789-003	EB2601789-004	EB2601789-005	-----	-----
				Result	Result	Result	----	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.01	<0.50	<0.01	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.50	<0.05	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Strontium	7440-24-6	0.001	mg/L	0.005	<0.050	0.009	----	----
Barium	7440-39-3	0.001	mg/L	0.008	<0.050	0.013	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.50	<0.01	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0050	<0.0001	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.50	<0.01	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.250	<0.005	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----
Rubidium	7440-17-7	0.001	mg/L	<0.001	<0.050	0.001	----	----
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.050	<0.001	----	----

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	P3 - Drill Stream	P3 - Rainwater	P3 - Drill Stream 2	----	----
Sampling date / time				31-Dec-2025 00:00	31-Dec-2025 00:00	31-Dec-2025 00:00	----	----	
Compound	CAS Number	LOR	Unit	EB2601789-003	EB2601789-004	EB2601789-005	-----	-----	
				Result	Result	Result	----	----	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Manganese	7439-96-5	0.001	mg/L	0.027	<0.050	0.057	----	----	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.200	<0.004	----	----	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.050	<0.001	----	----	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.250	<0.005	----	----	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.50	<0.01	----	----	
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.250	0.006	----	----	
Iron	7439-89-6	0.05	mg/L	0.14	<0.50	0.46	----	----	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	7440-21-3	0.1	mg/L	4.5	<0.1	6.7	----	----	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	----	----	
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	P3 - Drill Stream	P3 - Rainwater	P3 - Drill Stream 2	----	----
Sampling date / time					31-Dec-2025 00:00	31-Dec-2025 00:00	31-Dec-2025 00:00	----	----
Compound	CAS Number	LOR	Unit		EB2601789-003	EB2601789-004	EB2601789-005	-----	-----
					Result	Result	Result	----	----
EN055: Ionic Balance - Continued									
∅ Total Anions	----	0.01	meq/L		0.04	0.06	0.06	----	----
∅ Total Cations	----	0.01	meq/L		<0.01	<0.01	<0.01	----	----
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		3	2	3	----	----



CERTIFICATE OF ANALYSIS

Work Order : **EB2607009**
Client : **KCB AUSTRALIA PTY LTD**
Contact : JACO NEL
Address : LEVEL 3 150 MARY STREET
BRISBANE 4000
Telephone : ----
Project : 01D09135A95
Order number : ----
C-O-C number : ----
Sampler : ANGELO JOHNSON
Site : OTML Lowlands
Quote number : EB25KCBAUS0010
No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 6
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3552-8685
Date Samples Received : 25-Feb-2026 12:49
Date Analysis Commenced : 26-Feb-2026
Issue Date : 05-Mar-2026 10:11



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H⁺ to the Cations and Nitrate, SiO₂ and Fluoride to the Anions.
- TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Sub-Matrix: GROUNDWATER (Matrix: WATER)				Sample ID	KCB25-BH1006-D	KCB25-BH1006-S	----	----	----
Sampling date / time				17-Feb-2026 00:00	18-Feb-2026 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EB2607009-001	EB2607009-002	-----	-----	-----	
				Result	Result	----	----	----	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	8.31	7.48	----	----	----	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	5.02	0.92	----	----	----	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	255	207	----	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	198	273	----	----	----	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	166	135	----	----	----	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	17	73	----	----	----	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.92	1.36	----	----	----	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	----	----	----	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	139	103	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	139	103	----	----	----	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	4	----	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	1	1	----	----	----	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	7	21	----	----	----	
Magnesium	7439-95-4	1	mg/L	<1	5	----	----	----	
Sodium	7440-23-5	1	mg/L	51	18	----	----	----	
Potassium	7440-09-7	1	mg/L	1	3	----	----	----	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				KCB25-BH1006-D	KCB25-BH1006-S	----	----	----
Sampling date / time				17-Feb-2026 00:00	18-Feb-2026 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2607009-001	EB2607009-002	-----	-----	-----
				Result	Result	----	----	----
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.02	0.10	----	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	----	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	----	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	0.001	----	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	----	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	----	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	----	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	----	----	----
Strontium	7440-24-6	0.001	mg/L	0.045	0.261	----	----	----
Barium	7440-39-3	0.001	mg/L	0.009	0.029	----	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	----	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	----	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	----	----	----
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	----	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	----	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	----	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	----	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	----	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	----	----	----
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	----	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	----	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	----	----	----
Rubidium	7440-17-7	0.001	mg/L	0.003	0.005	----	----	----
Lithium	7439-93-2	0.001	mg/L	0.004	0.002	----	----	----



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				KCB25-BH1006-D	KCB25-BH1006-S	----	----	----
Sampling date / time				17-Feb-2026 00:00	18-Feb-2026 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2607009-001	EB2607009-002	-----	-----	-----
				Result	Result	----	----	----

EG020F: Dissolved Metals by ICP-MS - Continued

Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	----	----	----
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	----	----	----
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	----	----	----
Manganese	7439-96-5	0.001	mg/L	0.035	0.282	----	----	----
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	----	----	----
Molybdenum	7439-98-7	0.001	mg/L	0.002	0.002	----	----	----
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	----	----	----
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	----	----	----
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	----	----	----
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	----	----	----
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	----	----	----
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	----	----	----
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	----	----	----
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	----	----	----
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	----	----	----
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	----	----	----
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	----	----	----
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	----	----	----
Iron	7439-89-6	0.05	mg/L	<0.05	0.64	----	----	----

EG052F: Dissolved Silica by ICPAES

Silicon as SiO2	7440-21-3	0.1	mg/L	17.4	54.2	----	----	----
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EK040P: Fluoride by PC Titrator

Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	----	----	----
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EK055G: Ammonia as N by Discrete Analyser



Analytical Results

Sub-Matrix: GROUNDWATER
 (Matrix: WATER)

Sample ID

				KCB25-BH1006-D	KCB25-BH1006-S	----	----	----
Sampling date / time				17-Feb-2026 00:00	18-Feb-2026 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EB2607009-001	EB2607009-002	-----	-----	-----
Result				Result	Result	----	----	----
EK055G: Ammonia as N by Discrete Analyser - Continued								
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	----	----	----
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	----	----	----
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	0.01	0.01	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.01	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.2	2.7	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
[^] Total Nitrogen as N	----	0.1	mg/L	0.2	2.7	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	0.24	0.03	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.21	<0.01	----	----	----
EN055: Ionic Balance								
∅ Total Anions	----	0.01	meq/L	2.81	2.17	----	----	----
∅ Total Cations	----	0.01	meq/L	2.59	2.32	----	----	----
ED038P: Acidity by Auto Titrator								
Acidity as CaCO3	----	1	mg/L	<1	4	----	----	----



CERTIFICATE OF ANALYSIS

Work Order : **EB2609231**
Client : **KCB AUSTRALIA PTY LTD**
Contact : JACO NEL
Address : LEVEL 3 150 MARY STREET
BRISBANE 4000
Telephone : ----
Project : 01D09135A95
Order number : ----
C-O-C number : ----
Sampler : J DU TOIT
Site : ----
Quote number : EB25KCBAUS0010
No. of samples received : 18
No. of samples analysed : 18

Page : 1 of 18
Laboratory : Environmental Division Brisbane
Contact : Customer Services EB
Address : 2 Byth Street Stafford QLD Australia 4053
Telephone : +61-7-3552-8685
Date Samples Received : 12-Mar-2026 11:35
Date Analysis Commenced : 13-Mar-2026
Issue Date : 20-Mar-2026 16:30



Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	Position	Accreditation Category
Beatriz Llarinas	Senior Chemist	Brisbane Inorganics, Stafford, QLD
Kim McCabe	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

ø = ALS is not NATA accredited for these tests.

~ = Indicates an estimated value.

- As per QWI – EN55-3 Data Interpreting Procedures, Ionic balances are typically calculated using Major Anions - Chloride, Alkalinity and Sulfate; and Major Cations - Calcium, Magnesium, Potassium and Sodium. Where applicable and dependent upon sample matrix, the Ionic Balance may also include the additional contribution of Ammonia, Dissolved Metals by ICPMS and H⁺ to the Cations and Nitrate, SiO₂ and Fluoride to the Anions.
- TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Ionic Balance out of acceptable limits due to analytes not quantified in this report.
- EA016: Calculated TDS is determined from Electrical conductivity using a conversion factor of 0.65.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 1	Indo Road 2	Indo Stream 3	Indo Stream 4	Indo Stream 5
Sampling date / time				08-Mar-2026 09:20	08-Mar-2026 08:40	08-Mar-2026 12:35	08-Mar-2026 11:18	08-Mar-2026 11:36	
Compound	CAS Number	LOR	Unit	EB2609231-001	EB2609231-002	EB2609231-003	EB2609231-004	EB2609231-005	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	7.30	7.03	7.12	7.05	6.82	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.28	0.07	0.33	0.20	0.24	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	30	18	17	16	9	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	38	30	35	28	24	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	20	12	11	10	<10	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	7	7	5	2	<1	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.23	0.18	0.16	0.15	0.16	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	15	8	9	9	5	
Total Alkalinity as CaCO3	----	1	mg/L	15	8	9	9	5	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	2	<1	<1	<1	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	<1	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	3	3	2	1	<1	
Magnesium	7439-95-4	1	mg/L	<1	<1	<1	<1	<1	
Sodium	7440-23-5	1	mg/L	2	<1	2	1	1	
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	<1	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				Indo Stream 1	Indo Road 2	Indo Stream 3	Indo Stream 4	Indo Stream 5
Sampling date / time				08-Mar-2026 09:20	08-Mar-2026 08:40	08-Mar-2026 12:35	08-Mar-2026 11:18	08-Mar-2026 11:36
Compound	CAS Number	LOR	Unit	EB2609231-001	EB2609231-002	EB2609231-003	EB2609231-004	EB2609231-005
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	<0.01	0.03	0.02	0.01	0.01
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.040	0.012	0.025	0.018	0.014
Barium	7440-39-3	0.001	mg/L	0.066	0.053	0.065	0.060	0.052
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	<0.001	0.002	<0.001
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Rubidium	7440-17-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 1	Indo Road 2	Indo Stream 3	Indo Stream 4	Indo Stream 5
Sampling date / time				08-Mar-2026 09:20	08-Mar-2026 08:40	08-Mar-2026 12:35	08-Mar-2026 11:18	08-Mar-2026 11:36	
Compound	CAS Number	LOR	Unit	EB2609231-001	EB2609231-002	EB2609231-003	EB2609231-004	EB2609231-005	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Manganese	7439-96-5	0.001	mg/L	0.095	0.046	0.014	0.009	0.011	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	7440-66-6	0.005	mg/L	0.024	0.024	0.032	0.048	0.028	
Iron	7439-89-6	0.05	mg/L	0.18	0.14	0.10	0.06	0.08	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	7440-21-3	0.1	mg/L	15.1	3.2	12.4	9.9	8.6	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 1	Indo Road 2	Indo Stream 3	Indo Stream 4	Indo Stream 5
Sampling date / time					08-Mar-2026 09:20	08-Mar-2026 08:40	08-Mar-2026 12:35	08-Mar-2026 11:18	08-Mar-2026 11:36
Compound	CAS Number	LOR	Unit		EB2609231-001	EB2609231-002	EB2609231-003	EB2609231-004	EB2609231-005
					Result	Result	Result	Result	Result
EN055: Ionic Balance - Continued									
∅ Total Anions	----	0.01	meq/L		0.30	0.20	0.18	0.18	0.10
∅ Total Cations	----	0.01	meq/L		0.24	0.15	0.19	0.09	0.04
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		2	2	2	2	2

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 6	Indo Stream 7	Indo Stream 8	Indo Stream 9	Indo Stream 10
Sampling date / time				08-Mar-2026 11:22	08-Mar-2026 08:23	08-Mar-2026 08:47	08-Mar-2026 10:46	08-Mar-2026 10:34	
Compound	CAS Number	LOR	Unit	EB2609231-006	EB2609231-007	EB2609231-008	EB2609231-009	EB2609231-010	
				Result	Result	Result	Result	Result	
EA005P: pH by PC Titrator									
pH Value	----	0.01	pH Unit	6.82	6.97	7.00	7.28	7.08	
EA006: Sodium Adsorption Ratio (SAR)									
^ Sodium Adsorption Ratio	----	0.01	-	0.24	0.24	0.20	0.33	0.33	
EA010P: Conductivity by PC Titrator									
Electrical Conductivity @ 25°C	----	1	µS/cm	11	12	14	25	18	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	22	<10	<10	26	24	
EA016: Calculated TDS (from Electrical Conductivity)									
Total Dissolved Solids (Calc.)	----	10	mg/L	<10	<10	<10	16	12	
EA065: Total Hardness as CaCO3									
Total Hardness as CaCO3	----	1	mg/L	<1	<1	2	5	5	
ED009: Anions									
Chloride	16887-00-6	0.01	mg/L	0.32	0.15	0.15	0.14	0.38	
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	5	6	8	13	9	
Total Alkalinity as CaCO3	----	1	mg/L	5	6	8	13	9	
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA									
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	<1	<1	<1	<1	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	<1	
ED093F: Dissolved Major Cations									
Calcium	7440-70-2	1	mg/L	<1	<1	1	2	2	
Magnesium	7439-95-4	1	mg/L	<1	<1	<1	<1	<1	
Sodium	7440-23-5	1	mg/L	1	1	1	2	2	
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	<1	
EG020F: Dissolved Metals by ICP-MS									



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				Indo Stream 6	Indo Stream 7	Indo Stream 8	Indo Stream 9	Indo Stream 10
Sampling date / time				08-Mar-2026 11:22	08-Mar-2026 08:23	08-Mar-2026 08:47	08-Mar-2026 10:46	08-Mar-2026 10:34
Compound	CAS Number	LOR	Unit	EB2609231-006	EB2609231-007	EB2609231-008	EB2609231-009	EB2609231-010
				Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued								
Aluminium	7429-90-5	0.01	mg/L	0.02	<0.01	<0.01	<0.01	<0.01
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.012	0.019	0.021	0.048	0.026
Barium	7440-39-3	0.001	mg/L	0.066	0.055	0.078	0.074	0.062
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.057	<0.001	0.002
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Rubidium	7440-17-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	7439-93-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 6	Indo Stream 7	Indo Stream 8	Indo Stream 9	Indo Stream 10
Sampling date / time				08-Mar-2026 11:22	08-Mar-2026 08:23	08-Mar-2026 08:47	08-Mar-2026 10:46	08-Mar-2026 10:34	
Compound	CAS Number	LOR	Unit	EB2609231-006	EB2609231-007	EB2609231-008	EB2609231-009	EB2609231-010	
				Result	Result	Result	Result	Result	
EG020F: Dissolved Metals by ICP-MS - Continued									
Lutetium	7439-94-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thorium	7440-29-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Cerium	7440-45-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Manganese	7439-96-5	0.001	mg/L	0.015	0.013	0.029	0.053	0.033	
Neodymium	7440-00-8	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Molybdenum	7439-98-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Praseodymium	7440-10-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Samarium	7440-19-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.002	<0.001	<0.001	
Terbium	7440-27-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Antimony	7440-36-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thulium	7440-30-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Selenium	7782-49-2	0.004	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	
Ytterbium	7440-64-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Tin	7440-31-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Yttrium	7440-65-5	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Thallium	7440-28-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Zirconium	7440-67-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005	
Vanadium	7440-62-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
Zinc	7440-66-6	0.005	mg/L	0.029	0.027	0.080	0.031	0.029	
Iron	7439-89-6	0.05	mg/L	0.10	0.07	0.12	0.07	0.11	
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	7440-21-3	0.1	mg/L	7.0	9.0	10.3	15.6	11.1	
EK040P: Fluoride by PC Titrator									
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	
EN055: Ionic Balance									



Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 6	Indo Stream 7	Indo Stream 8	Indo Stream 9	Indo Stream 10
Sampling date / time					08-Mar-2026 11:22	08-Mar-2026 08:23	08-Mar-2026 08:47	08-Mar-2026 10:46	08-Mar-2026 10:34
Compound	CAS Number	LOR	Unit		EB2609231-006	EB2609231-007	EB2609231-008	EB2609231-009	EB2609231-010
					Result	Result	Result	Result	Result
EN055: Ionic Balance - Continued									
ø Total Anions	----	0.01	meq/L		0.10	0.12	0.16	0.26	0.18
ø Total Cations	----	0.01	meq/L		0.04	0.04	0.09	0.19	0.19
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		2	2	2	3	2



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				Indo Stream 11	Indo Stream 12	Indo Stream 13	Indo Stream 14	OK Yep
Sampling date / time				08-Mar-2026 09:56	08-Mar-2026 09:38	08-Mar-2026 09:27	08-Mar-2026 09:13	08-Mar-2026 11:20
Compound	CAS Number	LOR	Unit	EB2609231-011	EB2609231-012	EB2609231-013	EB2609231-014	EB2609231-015
				Result	Result	Result	Result	Result
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	6.94	7.00	6.77	6.84	7.68
EA006: Sodium Adsorption Ratio (SAR)								
^ Sodium Adsorption Ratio	----	0.01	-	0.16	0.20	0.10	0.20	0.04
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	18	12	12	12	57
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	23	25	21	27	52
EA016: Calculated TDS (from Electrical Conductivity)								
Total Dissolved Solids (Calc.)	----	10	mg/L	12	<10	<10	<10	37
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)	----	5	mg/L	----	----	----	----	44
EA065: Total Hardness as CaCO3								
Total Hardness as CaCO3	----	1	mg/L	5	2	2	2	22
ED009: Anions								
Chloride	16887-00-6	0.01	mg/L	0.37	0.15	0.17	0.22	0.16
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	7	7	4	5	29
Total Alkalinity as CaCO3	----	1	mg/L	7	7	4	5	29
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	1	<1	2	<1	1
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	<1	<1	<1	<1	<1
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	2	1	1	1	9
Magnesium	7439-95-4	1	mg/L	<1	<1	<1	<1	<1
Sodium	7440-23-5	1	mg/L	1	1	<1	1	<1



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				Indo Stream 11	Indo Stream 12	Indo Stream 13	Indo Stream 14	OK Yep
Sampling date / time				08-Mar-2026 09:56	08-Mar-2026 09:38	08-Mar-2026 09:27	08-Mar-2026 09:13	08-Mar-2026 11:20
Compound	CAS Number	LOR	Unit	EB2609231-011	EB2609231-012	EB2609231-013	EB2609231-014	EB2609231-015
				Result	Result	Result	Result	Result
ED093F: Dissolved Major Cations - Continued								
Potassium	7440-09-7	1	mg/L	<1	<1	<1	<1	<1
EG020F: Dissolved Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	<0.01	<0.01	<0.01	0.01	0.13
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Strontium	7440-24-6	0.001	mg/L	0.016	0.018	0.010	0.014	0.052
Barium	7440-39-3	0.001	mg/L	0.101	0.064	0.058	0.062	0.007
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	7440-50-8	0.001	mg/L	0.002	<0.001	<0.001	<0.001	0.012
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 11	Indo Stream 12	Indo Stream 13	Indo Stream 14	OK Yep
Sampling date / time					08-Mar-2026 09:56	08-Mar-2026 09:38	08-Mar-2026 09:27	08-Mar-2026 09:13	08-Mar-2026 11:20
Compound	CAS Number	LOR	Unit		EB2609231-011	EB2609231-012	EB2609231-013	EB2609231-014	EB2609231-015
					Result	Result	Result	Result	Result
EG020F: Dissolved Metals by ICP-MS - Continued									
Rubidium	7440-17-7	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	0.002
Lithium	7439-93-2	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Lutetium	7439-94-3	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Thorium	7440-29-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Cerium	7440-45-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	7439-96-5	0.001	mg/L		0.014	0.046	0.036	0.051	0.060
Neodymium	7440-00-8	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	7439-98-7	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Praseodymium	7440-10-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	7440-02-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Samarium	7440-19-9	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Lead	7439-92-1	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	0.004
Terbium	7440-27-9	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Antimony	7440-36-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Thulium	7440-30-4	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	7782-49-2	0.004	mg/L		<0.004	<0.004	<0.004	<0.004	<0.004
Ytterbium	7440-64-4	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Tin	7440-31-5	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Yttrium	7440-65-5	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	7440-28-0	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Zirconium	7440-67-7	0.005	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
Vanadium	7440-62-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	7440-66-6	0.005	mg/L		0.079	0.027	0.048	0.052	0.020
Iron	7439-89-6	0.05	mg/L		0.20	0.13	0.13	0.22	1.02
EG052F: Dissolved Silica by ICPAES									
Silicon as SiO2	7440-21-3	0.1	mg/L		4.7	8.7	2.7	6.2	8.0
EK040P: Fluoride by PC Titrator									



Analytical Results

Sub-Matrix: SURFACE WATER (Matrix: WATER)				Sample ID	Indo Stream 11	Indo Stream 12	Indo Stream 13	Indo Stream 14	OK Yep
Sampling date / time					08-Mar-2026 09:56	08-Mar-2026 09:38	08-Mar-2026 09:27	08-Mar-2026 09:13	08-Mar-2026 11:20
Compound	CAS Number	LOR	Unit		EB2609231-011	EB2609231-012	EB2609231-013	EB2609231-014	EB2609231-015
					Result	Result	Result	Result	Result
EK040P: Fluoride by PC Titrator - Continued									
Fluoride	16984-48-8	0.1	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1
EN055: Ionic Balance									
∅ Total Anions	----	0.01	meq/L		0.16	0.14	0.12	0.10	0.60
∅ Total Cations	----	0.01	meq/L		0.14	0.09	0.05	0.09	0.45
ED038P: Acidity by Auto Titrator									
Acidity as CaCO3	----	1	mg/L		2	2	1	2	1



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				OK Karandimok	Ox Bow	OK Tedi U/S	----	----
Sampling date / time				08-Mar-2026 13:16	08-Mar-2026 11:05	08-Mar-2026 13:55	----	----
Compound	CAS Number	LOR	Unit	EB2609231-016	EB2609231-017	EB2609231-018	-----	-----
				Result	Result	Result	----	----
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	7.11	8.19	8.13	----	----
EA006: Sodium Adsorption Ratio (SAR)								
[^] Sodium Adsorption Ratio	----	0.01	-	0.16	0.08	0.23	----	----
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	----	1	µS/cm	18	232	320	----	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	36	150	213	----	----
EA016: Calculated TDS (from Electrical Conductivity)								
Total Dissolved Solids (Calc.)	----	10	mg/L	12	151	208	----	----
EA025: Total Suspended Solids dried at 104 ± 2°C								
Suspended Solids (SS)	----	5	mg/L	<5	385	1150	----	----
EA065: Total Hardness as CaCO3								
Total Hardness as CaCO3	----	1	mg/L	5	108	134	----	----
ED009: Anions								
Chloride	16887-00-6	0.01	mg/L	0.16	0.17	3.88	----	----
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	----	1	mg/L	<1	<1	<1	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	10	111	125	----	----
Total Alkalinity as CaCO3	----	1	mg/L	10	111	125	----	----
ED041G: Sulfate (Turbidimetric) as SO4 2- by DA								
Sulfate as SO4 - Turbidimetric	14808-79-8	1	mg/L	<1	12	45	----	----
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	<1	<1	4	----	----
ED093F: Dissolved Major Cations								
Calcium	7440-70-2	1	mg/L	2	40	47	----	----
Magnesium	7439-95-4	1	mg/L	<1	2	4	----	----
Sodium	7440-23-5	1	mg/L	1	2	6	----	----



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				OK Karandimok	Ox Bow	OK Tedi U/S	----	----
Sampling date / time				08-Mar-2026 13:16	08-Mar-2026 11:05	08-Mar-2026 13:55	----	----
Compound	CAS Number	LOR	Unit	EB2609231-016	EB2609231-017	EB2609231-018	-----	-----
				Result	Result	Result	----	----
ED093F: Dissolved Major Cations - Continued								
Potassium	7440-09-7	1	mg/L	<1	<1	2	----	----
EG020F: Dissolved Metals by ICP-MS								
Aluminium	7429-90-5	0.01	mg/L	0.02	<0.01	0.03	----	----
Dysprosium	7429-91-6	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Silver	7440-22-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.001	----	----
Bismuth	7440-69-9	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Erbium	7440-52-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Boron	7440-42-8	0.05	mg/L	<0.05	<0.05	<0.05	----	----
Europium	7440-53-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Strontium	7440-24-6	0.001	mg/L	0.029	0.198	0.473	----	----
Barium	7440-39-3	0.001	mg/L	0.068	0.063	0.060	----	----
Gadolinium	7440-54-2	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Titanium	7440-32-6	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Beryllium	7440-41-7	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Gallium	7440-55-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	<0.0001	----	----
Hafnium	7440-58-6	0.01	mg/L	<0.01	<0.01	<0.01	----	----
Tellurium	22541-49-7	0.005	mg/L	<0.005	<0.005	<0.005	----	----
Cobalt	7440-48-4	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Holmium	7440-60-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Uranium	7440-61-1	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Caesium	7440-46-2	0.001	mg/L	<0.001	<0.001	0.001	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Indium	7440-74-6	0.001	mg/L	<0.001	<0.001	<0.001	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	0.003	0.004	----	----
Lanthanum	7439-91-0	0.001	mg/L	<0.001	<0.001	<0.001	----	----

Sub-Matrix: SURFACE WATER
(Matrix: WATER)

EK040P: Fluoride by PC Titrator



Analytical Results

Sub-Matrix: SURFACE WATER
 (Matrix: WATER)

Sample ID

				OK Karandimok	Ox Bow	OK Tedi U/S	----	----
Sampling date / time				08-Mar-2026 13:16	08-Mar-2026 11:05	08-Mar-2026 13:55	----	----
Compound	CAS Number	LOR	Unit	EB2609231-016	EB2609231-017	EB2609231-018	-----	-----
				Result	Result	Result	----	----
EK040P: Fluoride by PC Titrator - Continued								
Fluoride	16984-48-8	0.1	mg/L	<0.1	<0.1	0.2	----	----
EN055: Ionic Balance								
∅ Total Anions	----	0.01	meq/L	0.20	2.47	3.55	----	----
∅ Total Cations	----	0.01	meq/L	0.14	2.25	2.99	----	----
∅ Ionic Balance	----	0.01	%	----	----	8.58	----	----
ED038P: Acidity by Auto Titrator								
Acidity as CaCO ₃	----	1	mg/L	1	1	<1	----	----