# Myles Dunphy Reserve Stream Watch Results

* Note Faecal Coliform is not a Streamwatch Protocol . Test done on concentration of 2.5 ml

| | Temp | Ph | Cond | Turb | Do | Phosphate | * Faecal Coliform |
|---|---|---|---|---|---|---|---|
| **Acceptable standard** | | **6.5-8.5** | **200-300** | **50** | **85-110** | **.0612** | **150col/100ml** |

| **Date :28/04/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | | | | | | |
| Site 2: Kogarah Shops | | | | | | | |
| Site 3 : Down Stream | | | | | | | |

Present:
Comments:

| **Date: 26/05/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | | | | | | 52 |
| Site 2: Kogarah Shops | | | | | | | 10 |
| Site 3 : Down Stream | | | | | | | 38 |

Present:
Comments:

| **Date: 23/6/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 14 | 7 | 510 | 60 | 100% | .13 | 73 |
| Site 2: Kogarah Shops | 14 | 7 | 410 | 10 | 10.5<br>102% | .08 | 12 |
| Site 3 : Down Stream | 13 | 7 | 480 | 40 | 100% | .05 | 3 |

Present:
Comments:

| **Date : 28 /07/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | 7 | 650 | 20 | * | .05 | 3 |
| Site 2: Kogarah Shops | 11 | 7 | 410 | 10 | * | .04 | 5 |
| Site 3 : Down Stream | 12.5 | 7 | 620 | 30 | * | .04 | 9 |

Present: Claire, Sharyn, Heather, Geoff, Melina
Comments: * DO not done

| **Date: 25/08/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 12.5 | 7 | 700 | 10 | 59% | .07 | 10 |
| Site 2: Kogarah Shops | 12.5 | 7.5 | 340 | 10 | 7.9<br>74% | .06 | 4 |
| Site 3 : Down Stream | | | | | | | |
| Site 4: Combined site* | 11 | 6.5 | 530 (?) | 30 | | | 7 |

Present: Melina, Pat, Graham Fry, Graham Lalchere, Michelle, Sonia, Sharyn
Comments:

- 5mm rain 5 days ago.
- Mulga Rd very low flow. Kogarah very high flow even though no rain.
- *Combined site : Still pool down stream, different to normal down stream testing down stream. Down Stream still pool in wetland, rusty stain. Approx. 100 flying foxes have returned, Owl, probably Boobook.

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| **Date :22/9/09** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 16 | 7 | 700 | 10 | # | .12 | |
| Site 2: Kogarah Shops | 17 | 8 | 270 | 10 | # | .03 | |
| Site 3 : Down Stream | No water | | | | | | |

Present: Geoff, Michelle, Sharyn

Comments:

# DO result for 22/9 done at 4pm with WTW probe- 4% (water temp 17) for Mulga and 94%(water temp 18)

- Mulga Rd film on top of water, clear but very still.
- Kogarah shops clear flow, formed bubbles when shaken

| **Date: 10 /11/09** | **Temp** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 17.1 | 7.5 | 630 | 15 | 92% | 0.02 | |
| Site 2: Kogarah Shops | * | * | * | * | * | * | * |
| Site 3 : Down Stream | * | * | * | * | * | * | * |
| Site 4: Mangroves | 24 | 7 | 11.6 Ms (high range) | 20 | N/A | 2.9 | |

Present: Melina, Michelle, Geoff, Anne, Graham L, Clair (Sydney Water),
Carl & Kim (Georges River Combined Council Committee – River Health project)

Comments:

- Fresh water and salt water invertebrate testing day, other sites not done.
- Result – very low biodiversity in fresh water score of 2 indicating high pollution. Salt water: snail, shrimp, slaters & bugs.
- Light rain 3 days ago heavy 5 days ago, very heavy rain 2 weeks previous. Reasonable flows from Kogarah and Mulga rd.
- GRCC Report Card
  - Myles Dunphy Creek – Overall grade - C (Fair)
    Water quality = A, Vegetation = A, Macro Invertebrates = Fail
  - Myles Dunphy Estuary - Overall grade – C (Fair)
    Water quality D- , Vegetation E+ , Macro Invertebrates A+

| **Date: 24 /11/09** | **Temp** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 18 | 7.0 | 360 | 20 | 3.9 42% | 0.06 | |
| Site 2: Kogarah Shops | 18.5 | 7.5 | 340 | 10 | 7.7 85% | 0.05 | * |
| Site 3 : Down Stream | 18 | 7.0 | 240 | 20 | 4.4 48% | 0.03 | * |

**Present:** Graham Lalchere, Sonia Baxant, Melina Amerasinghe, Greg Clifford & Geoff Francis

**Comments:** : Last rainfall previous night 8mm. Kogarah shops drain frothy on top- detergent?
Mulga Rd sickly grey colour.

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|---|---|---|---|---|---|---|---|
| **Acceptable standard** | | **6.5-8.5** | **200-300** | **50** | **85-110** | **.0612** | **150col/100ml** |

| **Date: 23 /03 /10** | **Temp** | **Ph** | **Cond** | **Turb** | **Do $ Test #39** | **Phosphate$ Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 19.0 | 7 | 570 | 10 | 1.3<br>14% | .15 | |
| Site 2: Kogarah Shops | | | | | | | |
| Site 3 : Down Stream | | | | | | | |

**Present:** Sharyn Cullis, Graham Lalchere, Sonia Baxant, Melina Amerasinghe

**Comments:** :Last rainfall aprox 2 weeks ago. Hot & dry.
$ - Blank sample used distilled water. Only Mulga Rd site done

| **Date: 20/ 04/10** | **Temp** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site 1 : Mulga Rd | 18.0 | 7 | 650 | 10 | 2.6<br>27% | 0.12 | |
| Site 2: Kogarah Shops | | | | | | | |
| Site 3 : Down Stream | | | | | | | |

**Present:** Sharyn, Graham,Geoff, Melina
**Comments:** Only Mulga Rd sample tested
Also GRCC Estuary & Freshwater Invertebrate sampling day.
Overall Score = C- Invertebrates F-, Water =B, Vegetation =A

- Estuarine Mudflats - Isopods, Arthropods, Gastropods and Crabs and shrimps were found. More gastropods and Isopods were found in mid intertidal area. The lower tidal area had an abundance in crabs and shrimps.

- Freshwater sample - Damselfly nymphs, midge lave, flat worms, snails and segmented worms. Assembly typical of highly urbanized stream that receives storm water and occasional sewer overflow.

| **Date:25 /5 /10** | **Temp** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 15.5 | 7 | 370 | 10 | 7.4<br>74% | 0.08 | |
| Site 2: Kogarah Shops | 16.0 | 7 | 430 | 10 | 4.2<br>42% | 0.04 | |
| Site 3 : Down Stream | | | | | | | |

# Myles Dunphy Reserve Stream Watch Results

**Present:** Sharyn, Graham. Geoff, Greg, Melina
**Comments:** Heavy rainfall in last 24 hours. Slight drizzle during testing.
Smell near Kogarah shops outlet. Large amount of rubbish near Mulga Rd.

| | Temp | Ph | Cond | Turb | Do | Phosphate | * Faecal Coliform |
|---|---|---|---|---|---|---|---|
| **Acceptable standard** | | **6.5-8.5** | **200-300** | **50** | **85-110** | **.0612** | **150col/100ml** |

| **Date: 29 /06 /10** | **Temp Deg. Celsius** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 10.5 | 7 | 680 | 10 | 7.7<br>70% | 0.03 | |
| Site 2: Kogarah Shops | 10.5 | 7 | 370 | 10 | 7.9<br>72% | 0.03 | |
| Site 3 : Down Stream | | | | | | | |

**Present:** Melina, Sonia, Geoff, Graham L, Maureen
**Comments:** Last rainfall Friday night

| **Date: 27 / 07 /10** | **Temp Deg. Celsius** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 13 | 7 | 480 | 40 | 10.7<br>102% | 0.04 | |
| Site 2: Kogarah Shops | 13 | 7 | 400 | 10 | 9.8<br>94% | 0.06 | |
| Site 3 : Down Stream | | | | | | | |

**Present:** Sonia, Geoff, Graham L, Melina, Diane Hinkley
**Comments:** Rain last two days Lots of rubbish mainly plastic bottles & $5!

| **Date: 24 / 8 /10** | **Temp Deg. Celsius** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 13 | 7 | 720 | 15 | 6.1<br>58% | 0.05 | |
| Site 2: Kogarah Shops | 13.5 | 7 | 310 | 10 | 6.8<br>66% | 0.03 | |
| Site 3 : Down Stream | | | | | | | |

**Present:** Graham, Geoff, Sonia, Chris, Melina
**Comments:**

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|---|---|---|---|---|---|---|---|
| **Acceptable standard** | | **6.5-8.5** | **200-300** | **50** | **85-110** | **.0612** | **150col/100ml** |

| **Date: 28 /09 /10** | **Temp Deg. Celsius** | **Ph** | **Cond** | **Turb** | **Do Test #39** | **Phosphate Test #78** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | 15 | 7 | 580 | 10 | 5.4<br>54% | 0.02 | |
| Site 2: Kogarah Shops | 14.5 | 7 | 320 | 10 | 10.2<br>102% | 0.06 | |

**Present:** Melina, Vicki Bolling, Graham Lalchere & Sharyn Cullis
**Comments:** Light rain day before

Data Taken by River Health Data Logger – data to be excluded from Stream watch database

| Date: 26/10/10 | **Temp Degrees C** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | 7.45 | 203 | 75 | 85.6% | | |

**Present:** Carl Tipple GRCC River Health , Megan (Carl's assistant), Melina A, Graham L, Geoff F, Sonia Baxant, Claire Evans (Sydney Water, community education officer)

**Comments:** River Health Invertebrate testing Day . Data from Carl Tippler. Score was 2.2
**Freshwater sample** – contained following invertebrates:
Amphipoda = 3 ,Diptera (Fly Lava) >50 Odonata (Damsel fly) , Arachnida (spider) = 1 , Isopoda(Water slater) = 1 Oligochaeta (segmented worm>50,
Turbellaria (flatworm) = 7 Gastropoda (snails >50

| Date: 23/11/10 | **Temp Degrees C** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Sample C: Mulga Rd | 18.00 | 7.0 | 610 | 10 | 4.9<br>52% | 0.02 | ? |
| Sample B:<br>Kogarah shops | 18.5 | 7.0 | 360 | 10 | 3.2<br>34% | 0.03 | ? |
| Sample A: Lower of Kogarah outlet | | | | | | | ? |

**Present:** Melina A, Graham L, Sharyn C, Geoff F, Sonia B,
**Comments:**

- Last rain about a week ago. Heavy rain in the preceding week, large bad of rubbish removed from Mulga road area.
- Ponds in Mulga Rd area had Iron bacteria in the form of an orange coloured film.
- Kogarah site emanated a sewer smell, due possibly to nearby sewer vent popping.

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|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | | | | | | |
| Site 2: Kogarah Shops | | | | | | | |

**Present:**

**Comments:**

| Date: | **Temp Degrees C** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | | | | | | |
| Site 2: Kogarah Shops | | | | | | | |

**Present:**

**Comments:**

| Date: | **Temp Degrees C** | **Ph** | **Cond** | **Turb** | **Do** | **Phosphate** | *** Faecal Coliform** |
|---|---|---|---|---|---|---|---|
| Site1: Mulga Rd | | | | | | | |
| Site 2: Kogarah Shops | | | | | | | |

**Present:**

**Comments:**