

CHAIN OF CUSTODY (COC) FORM

CHAIN OF CUSTODY - The Pesticide Detectives					
AQEST - RMIT University - Phone number +61 (3) 9925 1903					
Group Leader: <i>Julia Ginillo</i>		Pesticide Detective Laboratory Details:			
Contact Person: <i>Julia Ginillo</i>		Attention: <i>Kavitha Chinathamby</i>			
Phone: <i>9041 1107</i>	Mobile: <i>0413 080385</i>	ADDRESS: <i>BLD 201, Level 1, Room 5, RMIT SHE Common Store Room Clements Drive, Bundoora West Campus 3083</i>	Email: <i>Kavitha.chinathamby@rmit.edu.au</i>		
Email: <i>Julia.Ginillo@me.com.au</i>		PHONE: <i>61 0422 247 095</i>			
Sites: <i>Folan Creek on Highway Blvd & Angles Crt, Geelong</i>					
Sample information			Comments		
Pesticide Detectives Sample Site Code	Date sampled	Time	Type of sample: (e.g.: sediment or soil)	No. of jars	NOTES/COMMENTS: Provide as much information about the sample as you can
<i>MEYF1300</i>	<i>21/7/20</i>	<i>3:30pm</i>	<i>Sediment</i>	<i>3X</i>	<i>Findon Park meaning they unbanked sewage. ME - YF1300 is a Waterwatch site code. Further information on this site can be viewed at: www.vic.waterwatch.org.au</i>
Relinquished by (Volunteer):				Received by (Company):	
Print Name: <i>Julia Ginillo</i>				Print Name:	
Date & Time: <i>21/7/20 2:30pm</i>				Date & Time:	
Signature: <i>Julia Ginillo</i>				Signature:	
Cooling: Ice / Ice pack / None				Cooling: Ice / Ice pack / None	
Security seal: Intact / Broken / None				Security seal: Intact / Broken / None	

YFL 3008
 BCC
 assessment by
 M. ...
 completed by
 M. ...

Pesticide Detectives Risk Assessment Form

Please note: Site hazards change over time at the same site. Risk assessments should be reviewed during every site visit prior to conducting sampling. Please contact your coordinator if you need assistance with the form.

Group name: Location: Date of monitoring:	Group coordinator: Contact numbers: Special needs:			Who?
Hazard/risk identification Preliminary site inspection and assessment completed Date:	Assessed risk level (see matrix, next page)	Risk management plan – Management/control measures		
General: all emergencies		Mobile phone and first aid kit carried in support vehicle. Staff responsibilities agreed, and emergency numbers known to all; vehicle access to site, base staff know of whereabouts and expected time of return.		
Environmental hazards: weather <input type="checkbox"/> cold weather <input type="checkbox"/> heat, UV rays <input type="checkbox"/> extreme weather events, e.g. wind, storms, flash flooding		<input type="checkbox"/> Checking, warning, avoidance. Protection and shelter. <input type="checkbox"/> Cold weather – take warm clothing. <input type="checkbox"/> Sun – appropriate clothing, hat, sunscreen and water bottle. <input type="checkbox"/> Extreme weather – alternative sheltered location, checking, warning.		
Environmental hazards: insect/plant/animal <input type="checkbox"/> snakes and crocodiles <input type="checkbox"/> mosquitoes and insect pests <input type="checkbox"/> trees and branches in windy conditions		<input type="checkbox"/> Warnings issued. Check sites. Avoid high risk sites. <input type="checkbox"/> Insect repellent, sunscreen and water at each site. <input type="checkbox"/> Checking trees, warnings and alternative venue.		
Hazard/risk identification Preliminary site inspection and assessment completed Date:	Assessed risk level (see matrix, next page)	Risk management plan – Management/control measures		Who?

People <input type="checkbox"/> existing medical conditions <input type="checkbox"/> allergic reactions		Pass on information regarding existing and potential conditions.		
Water testing activities (cross out if it does not apply) <input type="checkbox"/> use of equipment <input type="checkbox"/> carrying equipment, e.g. spade, buckets		<input type="checkbox"/> Supervision of participants. <input type="checkbox"/> Safety equipment – rubber gloves and safety glasses.		
Proximity to water <input type="checkbox"/> drowning <input type="checkbox"/> health issues – dirty water, mud and sediment		<input type="checkbox"/> Supervision, no swimming, work with a buddy. <input type="checkbox"/> Wash hands thoroughly after contact with water. Gloves on request.		
Risk assessment matrix				
How serious could the injury be?	How likely is it to be serious?			
	Very likely	Likely	Unlikely	Very unlikely
Death or permanent disability	1	1	2	3
Long-term illness or serious injury	1	2	3	4
Medical attention and several days off	2	3	4	5
First aid needed	3	4	5	6
Consultation prior to monitoring: Date: Consulted with (signature)				
Persons exposed to risk: Attach list of participants and special needs (e.g. wheelchair access)				
Comments:				

Pesticide Detectives Site Assessment Sheet

Please fill in this sheet only if you don't have access to the online form on your phone. Please upload site map on PD webpage.

The online form is available at <http://bit.ly/PesticideDetectivesSA> or at www.rmit.edu.au/pesticidesdetectives



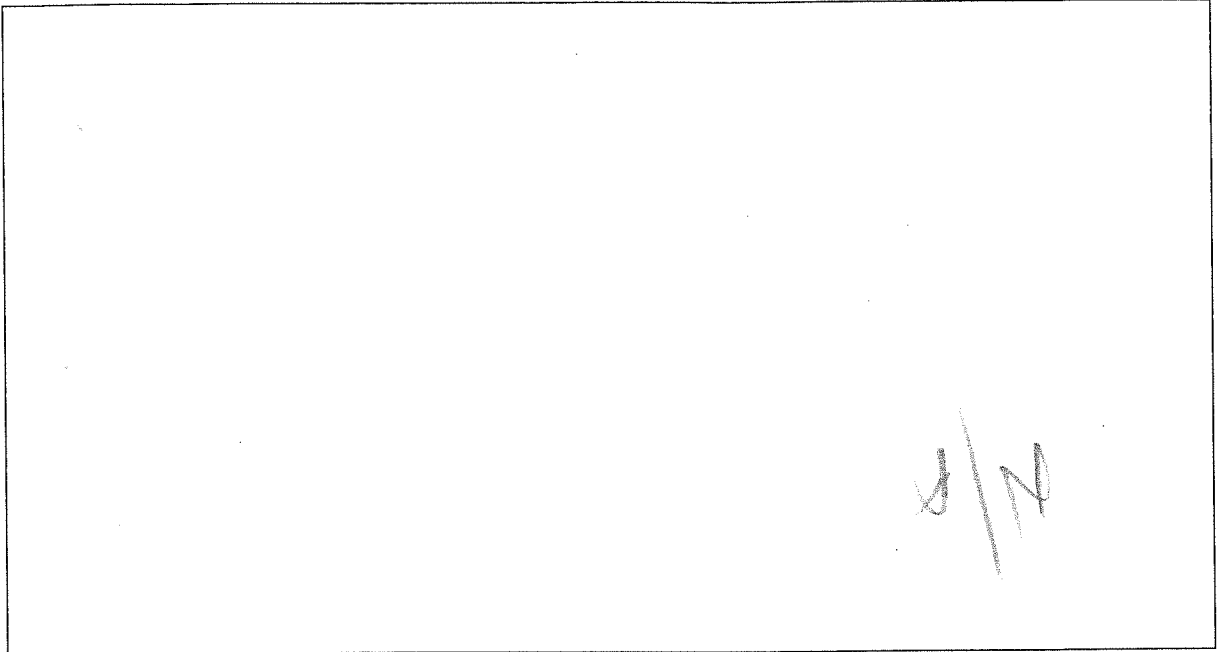
All information, including site photos and site map, recorded on this assessment sheet should be submitted using the online form (link above) as soon as possible upon return from the field. If any parts of the assessment are not relevant to your site, write N/A.

SITE & COLLECTOR INFORMATION:

River/Stream/Waterbody Name: <u>Fiddon Creek, 200 Houston Blvd & Angela St Spring</u>	
Site location (Eg. Name of street): <u>MEYFT300</u>	
Latitude and Longitude (Decimal Degrees):	
Nearest Town or suburb: <u>Spring</u>	Postcode:
Date: <u>21.7.20</u>	Time: <u>3:40pm</u>
State: <u>VIC</u>	
First and Last Name of person filling in information sheet: <u>Angela Foley</u>	Contact number: <u>0413080385</u> (Please include area code)
Group Name: <u>Mom de Mat (MCMC)</u>	Collector Names: <u>Julian Gault</u>

SITE MAP:

Sketch an aerial view of at least a 10 metre section of your site. Include features and details that will assist in locating the site e.g.: roads, large logs and branches within the stream, overhanging vegetation, aquatic vegetation, fences, and buildings. Mark on the location of photopoints (PP), sediment collection points (X) and direction of water flow, indicated with an arrow. Please refer to Page 14 of the instruction manual for tips on drawing a site map.



SITE CHARACTERISTICS

WATERBODY TYPE

Tick the box in the table below that best describes your site:

Freshwater rivers and streams	<input type="checkbox"/>	Estuary/marine	<input type="checkbox"/>	Standing water	<input type="checkbox"/>
Upland River	<input type="checkbox"/>	Estuary	<input type="checkbox"/>	Lake/reservoir	<input type="checkbox"/>
Low Land river	<input checked="" type="checkbox"/>	Coastal stream (tidal)	<input type="checkbox"/>	Dam	<input type="checkbox"/>
				Wetland	<input type="checkbox"/>

WATERBODY WIDTH

WHAT IS THE WETTED WIDTH OF THE WATERBODY (m)? This provides an idea of the size of your sampling site.

14 m

WATERBODY COLUMN DEPTH

WHAT IS THE WATER COLUMN DEPTH ABOVE YOUR SEDIMENT COLLECTION AREA (m)?

2.0 m ~~1.0 m~~ ~~0.5 m~~ ~~0.2 m~~ ~~0.1 m~~ 5 cm

RATE OF WATER FLOW

Circle the most appropriate option.

Flowing
Trickle
<input checked="" type="radio"/> Still/no flow

→ Deep pools
very slow flow & small






SEDIMENT TYPE

Please circle the option/s below that best represent the type of sediment at your sample collection area.

Boulder (>256 mm)	Small-medium gravel (8-16 mm)
Large cobble (128-256mm)	Small gravel (2-8 mm) ✓ 10%
Small cobble (64/128 mm) 10% ✓	Silt-sand (0.63-2mm) ✓ 10%
Large gravel (32-64 mm)	Mud/fine sediment (< 0.6) ✓ 70%
Medium-large gravel (16-32 mm)	

RIPARIAN CHARACTERISTICS

Tick the box that best describes vegetation along the banks of your site.

Features of riparian vegetation	Tick
Wide corridor of mainly undisturbed native vegetation 	
Well vegetated with native and/or introduced species 	
Narrow corridor of native and/or introduced species 	<input checked="" type="checkbox"/>
Clumps of native and/or introduced species 	
Little or no riparian vegetation 	

IS YOUR RIPARIAN ZONE:

Please tick the most appropriate option/s.

	TICK
Fenced	
Not fenced	<input checked="" type="checkbox"/>
Has stock access	<input checked="" type="checkbox"/>
None of the above	<input checked="" type="checkbox"/>
Other (Please specify)	<input checked="" type="checkbox"/> Park style

*mown grass
BBQ / Picnic shelter
Bins*

SITE IMPACTS

WATER CONDITION

Please circle the most appropriate option/s below that best represent the condition of the water at your site.

Clear	Smelly
Muddy	Brown <input checked="" type="checkbox"/>
Oily	Other (Please specify)
Frothy	

DID YOUR SITE RECENTLY RECEIVE ANY RAINFALL?

YES/NO/NOT SURE

If you selected Yes above, please circle the most appropriate option/s below.

Raining now	<input checked="" type="checkbox"/> Last 7 days	lightly
Last 24 hrs	Other (Please specify)	
Last 3 days		

DESCRIBE BRIEFLY ANY POLLUTION EVENT/S AT THE SITE (PAST/PRESENT) THAT MAY AFFECT OR HAS AFFECTED THE HEALTH OF THE WATERWAY (IF APPLICABLE).

Dumped rubbish
General Urban - dog poo
↓ Stormwater issues include sediment, dog poo
& other animals, detergents &
plastics.

IS THERE A STORMWATER OUTFALL WITHIN VISION OF YOUR SAMPLING SITE?

YES/NO/NOT SURE

SURROUNDING LANDUSE (Land directly abounding/influencing your site)

Tick as many as apply

Agriculture	
Cropping	
Grazing (Cattle, sheep, deer, goats)	
Horses	
Feed lot	
Dairying	
Orchard	
Market Garden	
Other agricultural land	
Forestry	
Other (name)	
Recreation	
Swimming	
Fishing	
Boating	
Picnic area	✓
Camp-ground	
Golfing	
Other (name)	
Built Environment	
Urban residential	✓
Rural residential	
Industry (factories)	
Commercial, e.g. shops	
Schools	
Park/gardens	///
Roads/Bridges	///
Sewage Treatment Plants	
Water Treatment Plant	
Construction Underway	
Housing development	with bit
Commercial building	
Road or bridge repair/works	
Other Land uses	
Landfill site/rubbish tip	
Mines/quarry/gravel pits	
Aboriginal cultural heritage site	-
Other (name)	
Bush, forests, reserves	
Bushland area native	
Bushland area exotic	
Water supply catchment	
State/national park	
Crown land	
River reserve	✓
Wetlands	Narrow ✓
Other (name)	



Physical/Chemical Record Sheet



Name of School: MCMC Site code: ME-4FI300

Person(s) Conducting Tests: Julia Cimillo / Angela Foley

Date of Tests: 21-7-20 Time of Tests: 3:45

Creek Name: Fendon Creek @ Epping

Test	What it Measures	Results	Comments
Air Temperature	Temperature	<u>11.5</u> °C	
Water Temperature	Temperature	<u>11.5</u> °C	
Turbidity	Suspended Solids/Cloudiness	10000 <u>11.4</u> NTU	
pH	Acidity/Alkalinity	<u>8.0</u>	
Conductivity	Salinity/Salts	<u>1720</u> µS/cm	

Ammonium Nitrate (10 mins)

0.02 mg/L

D.O 6 mg/L

Phosphate (5 mins)

0.07 mg/L

Weather conditions at the time of sampling:

- Sunny
 Cloudy
 Overcast
 Raining ⁺
 Windy

Last Rainfall:

- < One Week
 > One Week
 ^{light} During Last 24hrs
 Raining Now

Water Appearance:

- Clear
 Milky
 Foamy/Frothy
 Stained Green
 Other: _____
- Cloudy
 Oily
 Smelly
 Stained Brown
- Very Turbid/Muddy

S.W. litter from UPS in creek under foliage

Large clumps of soil forced off Shrub.

- Trickle flow
- large deep pools
- lots of dumped litter, dog poo bags at picnic area

MELBOURNE WATERWATCH

Water Quality Guidelines



RATING		PARAMETER	CONDUCTIVITY (µs/cm)	TURBIDITY (NTU)	pH
EXCELLENT	GOOD	FAIR	POOR	DEGRADED	
< 100	100 - 250	250 - 500	500 - 750	> 750	
< 15	15 - 17.5	17.5 - 20	20 - 30	> 30	
6 - 7	5.5 - 6 or 7 - 8	8 - 8.5	5 - 5.5 or 8.5 - 9	< 5 or > 9	

(Source: Victorian SOE report)