Report for QIS OQI as of 28/06/2022 10:14:35 AM

# Report for QIS OQI -

# 21222 CWIQEXT20080620\_02 DNA IQ investigation

# **OQI** Details

Status
Subject
When doing IQ extraction batch checks for assault case in Rockhampton), it was found that sample (voume crime from Lawnton) showed below threshold similarities to intimate samples and complainant profile in sample supported the match.

Source of OQI
Date Identified

Closed Approved

When doing IQ extraction batch checks for (sexual assault case in Rockhampton), it was found that sample (voume crime from Lawnton) showed below threshold similarities to intimate samples and complainant profile in supported the match.

Internal Problem
28/10/2008

# **OQI Creator Contact Details**

Creator Julie CONNELL
Organisational Unit/s Reporting 3
Service/s Coopers Plains

# **Investigator/Actioner Contact Details**

Actioner Thomas NURTHEN
Organisational Unit/s
Service/s
Site Location/s Coopers Plains

# **Investigation Details**

Investigation Completed Investigation Details

14/05/2009 Original	Root	Cause <sup>-</sup>	Туре	Procedure/Method/Process
73	81	89	l	
288898049	82	90		
288898035	83	91		
76	84	92		
77	85	93		
288898026	365654129	94		
288898062	87	95		
288898053	88	96		
Store				

	73	81	89
	364910060	82	90
	364910074	83	91
	76	84	92
	77	85	93
	364910083	364910110	94
	364910092	87	95
ľ	364910104	88	96

### Spin basket

73	81	89
364910006	82	90
364910015	83	91
76	84	92
77	85	93
364910029	364910051	94
364910038	87	95
364910047	88	96

This batch of casework samples appears to have a single contamination event

- Position F11 (86) contains a mixture. The mixture was consistent with the DNA profile found in 5 positions (B10/74, C10/75, F10/78, G10/79, and H10/80).
- Re-extraction of the stored lysate of the contaminated sample (F11/86) yielded a DNA profile consistent with the original contamination.
- Re-extraction of the original substrate (F11/86) yielded an NSD profile with an undetermined Quant value.
- Direction of contamination left to right.

A contamination of the samples has occurred at a point during the extraction process before the removal of the lysate but after removal of the substrate, as some of the lysate profiles are contaminated (consistent with original 9PLEX contamination). The right to left direction of contaminations are consistent with robotic movement. Contamination may have occurred during storage, during plate agitation on the robot, by robotic dripping, or by the removal of plate seals.

#### Preformed By

Thomas NURTHEN

# Investigation Completed Investigation Details

11/12/2008 Root Cause Type | Procedure/Method/ProcessReextraction of the stored lysates of the potential contributors and of the affected sample confirms the contributing profile. Analysis of the affected sample with low threshold GeneMapper software reveals a mixture. Re-extraction of the substrate from the affected sample failed to yield any DNA profile. The presence of the mixture in the stored lysate and the apparent movement of the DNA from a well or wells left to right indicate the event occurred after the removal of the substrate but prior to the removal of the lysate. The event may have been caused by seepage of the plate seal, removal of the plate seal, agitation on the instrument or during storage. The most likey cause is belived to be seepage from position 78 (Quantitation value of around 11ng/uL) into position 86. Seepage between wells has been observed previously -OQI XXXX, and can be attributed to the plate seal not fully

sealing between adjacent wells, this is because the plate seal used for this procedure was not designed to seal deep well plates.

Preformed By

Quality Information System

#### **Action Details**

Action Fix Type | Changed ProcessIntroduction **Action Complete** 26/05/2009 of new Title process Action Description A new process for reporting DNA IQ cases has been implemented

within the Forensic Reporting and Intelligence team, no result is released without being checked to see if results are reportable

Please note in the investigation reference was made to OQI xxxx. This actually refers to all OQIs raised for DNA IQ adverse events. Please see list below

19330 FTAEXT20080205\_01 19349 CWIQEXT20080225\_02 19477 CWIQEXT20080430\_01 19767 FTAEXT20080515\_01 19768 CWIQEXT20080506\_01 20231 CWIQEXT20080417\_01 20351 CWIQEXT20080402\_01 20422 CWIQEXT20080506\_02 20437 CWIQEXT20080630\_01 20615 CWIQEXT20080409\_01 20617 CWIQEXT20080614 02 20690 CWIQEXT20080628\_01 20925 CWIQEXT20080403\_01 21222 CWIQEXT20080620\_02 21309 CWIQEXT20080531\_01 22880 CWIQEXT20080614\_02 22882 CWIQEXT20080507\_01

**Action Complete** Title

26/05/2009 Action Fix Type | Changed ProcessModifications to

Automated DNA IQ protocol

**Action Description** 

- · Modifications have been made to the automated DNA IQ extraction procedure (including the use of an alternative to the adhesive seal and an alternative resin mixing procedure).
- This modified procedure will undergo extensive verification and approval from the DNA Analysis management team will be obtained prior to re-introduction. A report for this reverification will be written and made available to all staff

Action Complete | 15/05/2009 Action Fix Type | No Fix RequiredNil action Title Action Description Nil

#### Task Details

No Tasks found

## Follow-up And Approval

Follow-up Status Follow-up Status Comment

Accepted

26/05/2009 2:04:47 PM Thomas NURTHEN:

Actions added as per Approver 26/05/2009 1:59:13 PM Thomas NURTHEN: OQI Report Page 4 of 4

Add details of new plate checking process for all DNA IQ cases

25/05/2009 7:45:30 PM Thomas NURTHEN:

On Behalf of Julie Connell with permission from Justin Howes

Approver Approval/Rejection Date Approval/Rejection Comment Paula BRISOTTO 26/05/2009

26/05/2009 2:12:28 PM Paula TAYLOR:

Agree with all actions and proposed actions

26/05/2009 12:24:32 PM Paula TAYLOR:

Can you please add the same actions as from the other OQI's raised in relation to the automation contamination events

## **Associations**

No Associations found

#### Records

No Records found

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