

Commission of Inquiry  
to examine DNA Project 13 concerns

Brisbane Magistrates Court  
Court 40, 363 George Street, Brisbane

On Friday, 3 November 2023 at 11.00am

Before: The Hon Dr Annabelle Bennett AC SC, Commissioner

Counsel Assisting:

Mr Andrew Fox SC	(Senior Counsel Assisting)
Ms Gabriella Rubagotti	(Counsel Assisting)

1 THE COMMISSIONER: Thank, Mr Fox.

2

3 MR FOX: Just in relation to timing - I'll just say this  
4 now so that I'm not castigated later, but I will finish by  
5 lunch. I'll just start by indicating there are five topics  
6 that I want to address this morning. The first is by way  
7 of general introduction to the terms of reference and the  
8 scope of the Inquiry. The second is to identify evidence  
9 that hasn't been the result of any oral evidence at the  
10 hearing, but it's statements that have been received.  
11 I will give you a brief indication of those statements as  
12 to what that evidence is that's been accepted and read.

13

14 Then the next matter is to provide an analysis of the  
15 scientists' evidence, and that's not just the Project 13  
16 scientists but also the experts who joined in what I will  
17 describe as the second hot tub. The fourth matter is then  
18 to do an evaluation of the evidence concerning  
19 Professor Wilson-Wilde, and then the final matter is to  
20 deal with issues of conclusions based on the evidence  
21 received and also the territory of recommendations.

22

23 At the outset it's crucial to appreciate that the  
24 scope and bounds of this Inquiry are limited. The Inquiry  
25 has been concerned with the automated method used for the  
26 extraction of DNA by the QHFSS laboratory, which commenced  
27 back in October 2007 and ceased in November 2016. It's  
28 beyond the scope and not a part of the scope of this  
29 Inquiry to determine the particular techniques available to  
30 be used for the DNA extraction today for historical  
31 samples.

32

33 It's also crucial to appreciate that this Inquiry has  
34 been required to be conducted and completed within a very  
35 confined time period. That of course has had a bearing on  
36 the extent of the evidence which can be sensibly taken into  
37 consideration and also the extent to which the Inquiry can  
38 delve into the issues which arise for consideration. The  
39 written submissions served by the various parties who have  
40 participated in this Inquiry indicate their recognition of  
41 these matters.

42

43 Although the time period for this Inquiry has been  
44 confined, there's been a wealth of material and evidence  
45 which has been presented. Since the commencement of the  
46 Inquiry on the 5th of October, when it was announced, the  
47 Inquiry has received an extremely large number of documents

1 from government agencies, individual parties and the  
2 manufacturer of the MultiPROBE platform. Documents have  
3 been received from Queensland Health, the Department of  
4 Justice and Attorney-General, Department of the Premier and  
5 Cabinet, Revvity, which is the manufacturer of the  
6 MultiPROBE device, as well as from individual parties.

7  
8 Thirty-five notices to produce were issued.  
9 Recipients were given extremely short timeframes in which  
10 to respond, often less than 24 hours. The largest number  
11 of documents were received from Queensland Health. A total  
12 of 12,148 documents were received from all parties, which  
13 can be broken down into the following categories: 1,868  
14 emails, 1,902 minutes of meetings, 603 PowerPoint  
15 presentations, 112 reports, 988 spreadsheets and 6,675  
16 general documents. I note that you've read every one of  
17 them, Commissioner. A total of --

18  
19 THE COMMISSIONER: I have to be clear that I have not.

20  
21 MR FOX: A total of 37 witness statements were received,  
22 which themselves comprised 3,500 pages of information. It  
23 will be appreciated, given the tight timeframe allocated to  
24 this Inquiry by the Queensland Government, the Commission  
25 has relied heavily on the parties to identify relevant  
26 documents from this wealth of material.

27  
28 THE COMMISSIONER: Can I interrupt for one moment to make  
29 a - I mean, this is not just a loose comment. Again, if  
30 over the weekend but before Monday morning any party that  
31 has produced documents that believes that a particular  
32 document should be brought to our attention, please notify  
33 and identify it, because it's not been possible for me or  
34 those assisting to have gone through all of those  
35 documents, and it may well be we've missed one. I know  
36 that I've asked is there any documents you wish to adduce,  
37 but if there are ones that you'd thought you produced and  
38 therefore didn't refer to them, if anybody has a document  
39 that they wish to draw to our attention, please do so by  
40 Monday morning - I know it's the weekend, but still - and  
41 identify the document and the part of it and what you think  
42 is relevant. It doesn't have to be done in a formal  
43 manner, as long as the information is conveyed to us.  
44 Thank you. Otherwise we won't have the opportunity to  
45 raise that.

46  
47 MR FOX: Thank you. Now, the focus of the Inquiry has

1 been on what's been styled Project 13. That's made plain  
2 by the terms of reference. The terms of reference state  
3 that you are to review the recent public statements and any  
4 other documents that may be produced to the Inquiry about  
5 Project 13, Project 13 being the name that's been used  
6 throughout this Inquiry to describe the introduction in  
7 2007 of the automated platform using the MultiPROBE device.  
8 That device was at that time known to be suitable for use  
9 in an automated DNA extraction process, and it was being  
10 used by at least three other laboratories so far as the  
11 QHFSS laboratory was aware. That's PathWest in WA,  
12 Forensic Science South Australia and also the Centre For  
13 Forensic Sciences in Toronto.

14  
15 The terms of references also state that you are to  
16 consider whether the recommendations made by the first  
17 Inquiry, I quote, "are sufficient to address the matters  
18 raised" regarding Project 13.

19  
20 In relation to the lab, Dr Wright made various  
21 statements concerning the laboratory and Project 13 in the  
22 media - that have been reported in the media. As to  
23 Project 13 she stated that the data in the Project 13  
24 report revealed plainly that the automated DNA IQ protocol  
25 used on the MultiPROBE device was systematically failing  
26 and recovered far less DNA than the manual method. Against  
27 that data Dr Wright observed two matters of significance.  
28 First, the abstract of the report stated that the automated  
29 method was comparable to the manual method and, secondly,  
30 the report recommended that the automated protocol be  
31 implemented.

32  
33 Now, it's Dr Wright's opinion in view of these  
34 matters, firstly, that Project 13 scientists at least must  
35 have known that they recommended the implementation of the  
36 failed DNA recovery method; secondly, that the Project 13  
37 scientists recommended such a method where its sole purpose  
38 was to extract DNA for analysis in connection with the  
39 prosecution of matters in Queensland's criminal justice  
40 system; thirdly, that in those circumstances those  
41 scientists recommended a DNA extraction method that was  
42 likely to compromise convictions in serious crimes,  
43 including rape and murder; and, lastly, that the laboratory  
44 deliberately favoured the exigency of clearing backlogs  
45 over sound scientific method, with catastrophic  
46 consequences.

1           It is also Dr Wright's opinion that those responsible  
2 for the implementation of the automated DNA method ought to  
3 be held accountable to restore faith in Queensland's  
4 criminal justice system and its forensic science  
5 capabilities.  
6

7           As to Professor Wilson-Wilde, Dr Wright has raised an  
8 additional but separate issue concerning Project 13. The  
9 issue concerns the evidence of Professor Wilson-Wilde, who  
10 was another witness in the first Inquiry. She gave several  
11 expert reports which were tendered in the first Inquiry,  
12 also gave evidence in the first Inquiry, but it's her  
13 report of 20 October 2022 which is the subject of issues  
14 raised by Dr Wright. That report was tendered as part of  
15 module 5, technical issues at the laboratory and their  
16 resolution, but she did not give oral evidence as to this  
17 report at the first Inquiry.  
18

19           For the purposes of her report, the professor was  
20 given a series of questions and also a large number of  
21 documents to review. Amongst those documents was the  
22 Project 13 report. However, in providing her report the  
23 professor did not draw attention to the report and to the  
24 fact that the report's main conclusion was inconsistent  
25 with the data contained in it. The question which  
26 Dr Wright has raised in media statements is why  
27 Professor Wilson-Wilde did not draw attention to that  
28 matter in answering those questions posed.  
29

30           In Dr Wright's opinion Dr Wilson-Wilde failed to draw  
31 a significance of - from the Project 13 report to the  
32 attention of the Sofronoff Inquiry, either adequately or at  
33 all. She failed to do so when it ought to have been  
34 immediately apparent to her that the automated method was  
35 failing adequately to extract DNA and when she subsequently  
36 claimed publicly that this was in fact apparent to her.  
37 She also failed adequately to explain why she did not draw  
38 the failings of the automated method to the attention of  
39 the Sofronoff Inquiry, and, finally, it was suggested that  
40 she may have deliberately misled the Sofronoff Inquiry.  
41

42           Recent statements made by Professor Wilson-Wilde after  
43 the publication of the Sofronoff report can be considered  
44 relevant to this Inquiry, firstly because Dr Wright 's  
45 statements assert a lack of integrity on  
46 Professor Wilson-Wilde's part in her handling of Project 13  
47 for the Sofronoff Inquiry, thus calling into question her

1 integrity in implementing the recommendations of the  
2 Sofronoff Inquiry, especially recommendation 105.  
3 Secondly, Dr Wright's statements also called for  
4 consideration of whether recommendation 105 ought to be  
5 varied or strengthened to restore public confidence in  
6 Forensic Science Queensland.

7  
8 Finally, Dr Wright made public statements about her  
9 concerns as to whether the advisory board can manage  
10 conflicts of interest. It's not clear on the face of those  
11 statements how they might fall within the terms of  
12 reference. However, and in any event, Dr Wright has  
13 confirmed in her oral evidence given earlier in the week  
14 that she does not seek to agitate her concerns in this  
15 forum. There is evidence that the membership of the board  
16 and its subcommittees which have been put before this  
17 Commission which suggests that an issue about conflicts of  
18 interest requires no further consideration.

19  
20 If I can then outline the second aspect of what  
21 I wanted to make submissions on, which is the statements of  
22 evidence that did not result in any oral evidence.  
23 Firstly, there are two statements by Ms Generosa Lundie and  
24 Cecelia Iannuzi. They are two named authors on the  
25 Project 13 report who were not called to give oral  
26 evidence. They each provided two statements in response to  
27 notices. Each produced documents accompanying their  
28 statements. They were mostly repeats of - in terms of the  
29 documents they were mostly repeats of documents produced by  
30 other Project 13 scientists.

31  
32 Ms Lundie worked in the QHFSS automation team as a  
33 graduate scientist between June '06 and the end of 2008,  
34 and by 2009 she - in early 2009 she had moved to the  
35 analytical team. Ms Iannuzi was employed in the laboratory  
36 in various positions between 2003 and 2019, and was part of  
37 the automation team during the period which Project 13 was  
38 in progress. Both give generalised evidence about the  
39 extraction processes and had little to no independent  
40 recollection of much of the detail with respect to the  
41 validation of the manual method or the automated using -  
42 use of the MultiPROBE device.

43  
44 However, both gave clear evidence that they did not  
45 contribute to the drafting of the Project 13 report, and  
46 each believed they were named on it due to their role in  
47 the automation team whereby work was done by each of them

1 that supported Project 13 in some way. Each also states  
2 that on their review of that document the Project 13 report  
3 was a draft.  
4

5 Ms Desley Pitcher is a former employee of  
6 PerkinElmer Australia, the manufacturer of the MultiPROBE  
7 device. She held a number of roles with that company  
8 between 2005 and 2014 where her responsibilities included  
9 supporting MultiPROBE customers. Ms Pitcher describes  
10 amongst other things the services offered by PerkinElmer  
11 Australia to purchasers of the MultiPROBE device. She  
12 states that new purchasers were usually given training to  
13 maintain and write protocols for the device. In her  
14 experience it was normal for the manufacturer's engineers  
15 and specialists to attend premises of customers to install,  
16 maintain and troubleshoot MultiPROBE device.  
17

18 She identified QHFSS as one such customer, which was  
19 among a number of laboratories that she was personally in  
20 contact with. She visited the site on various occasions  
21 between 2006 and 2009. She recounts from her experience  
22 that it was normal for purchasers to modify device settings  
23 and still produce valid results. She also recounted that  
24 validations of modifications to device settings were the  
25 customers' responsibility, and also that after each visit  
26 she made to the QHFSS laboratory the system operated  
27 without issue.  
28

29 She only recalls one occasion where issues were  
30 experienced by the lab with the MultiPROBE, which were  
31 resolved with her support. She notes that on this  
32 occasion, which was in October 2008, so this is during the  
33 period of the contamination issues, she observed droplets  
34 on the tips, part of the liquid-handling steps, which can  
35 cause cross-contamination. She said that she made  
36 appropriate adjustments and ran several checks to ensure  
37 that this issue was fixed. There is nothing in her  
38 evidence which identifies any broader concern about how the  
39 laboratory was using the MultiPROBE device.  
40

41 Acting Superintendent David Neville gave evidence in  
42 the Sofronoff Commission of Inquiry. He was a member of  
43 the quality management section of the QPS Forensic Services  
44 Group from 2005 to 2010 and had frequent contact with QHFSS  
45 staff. Mr Neville provided two statements to the Inquiry  
46 dealing with discrete issues. His first statement refers  
47 to how and when QPS became aware that the MultiPROBE device

1 had been taken offline in the laboratory, and references  
2 statistics provided to QPS by QHFSS showing rates of  
3 presumptive blood samples failing to produce a DNA profile.  
4

5 Superintendent Neville's second statement responds to  
6 the oral evidence of Mr Nurthen during the first expert hot  
7 tub on Monday, 30 October regarding an issue about a change  
8 in swabs used by QPS to collect DNA. Each of these matters  
9 were addressed in the further hot tub which was held  
10 yesterday, to which I'll return.  
11

12 Ms Julie Dick SC is a retired judge of the District  
13 Court of Queensland and co-chairs the FSQ advisory board  
14 alongside Mr Walter Sofronoff KC. Ms Dick notes that the  
15 pool of candidates from which to select appropriate  
16 scientists to sit on the board is relatively small and  
17 affirms that the co-chairs are fully cognisant of and alive  
18 to potential conflicts which may arise for the board  
19 members. She informs that no conflicts of interest have  
20 arisen to date and that a conflicts check is the first  
21 agenda item at each meeting.  
22

23 She otherwise states that she was not involved in the  
24 appointment of other board members and confirms that  
25 Professor Wilson-Wilde recommended to the board's forensic  
26 justice subcommittee on 7 September 2023 that all serious  
27 cases between October '07 and July '08 be re-examined and  
28 this will be considered by the board in its next meeting.  
29

30 You put this date range to Professor Wilson-Wilde  
31 during the course of her oral evidence on 1 November and  
32 whether this was proper given the evidence of Project 70  
33 and the reintroduction of the automated method in 2009.  
34 The professor responded that, given the work and discussion  
35 that has now been had, she would advocate a more extensive  
36 date range from the beginning of the year to 2 October  
37 2007. That's the beginning of this year through to - back  
38 to 2007.  
39

40 Ms Hedge, Susan Hedge, was a junior counsel assisting  
41 in the Sofronoff Inquiry and provided a statement in  
42 response to a notice and a further statement amending the  
43 first statement that she gave and also responding to the  
44 statement of Professor Wilson-Wilde. Across her statements  
45 she recounts her recollection of her dealings with  
46 Professor Wilson-Wilde concerning the circumstances leading  
47 to the production of the professor's report dated



1 20 October 2022. She states that the only conversation she  
2 recalls with Professor Wilson-Wilde about the DNA IQ  
3 extraction method concerned the contamination issue and not  
4 to any difference in operational effectiveness between the  
5 manual and automated DNA IQ extraction methods.  
6

7 There was no difference of any significance as between  
8 the recollections of Ms Hedge and Professor Wilson-Wilde  
9 with respect to the dealings between them. Importantly,  
10 Ms Hedge says that if Professor Wilson-Wilde had told her  
11 about the significant failings of the methodology and the  
12 results in the Project 13 report then she would have  
13 ensured that they were investigated. Her evidence tends to  
14 confirm Professor Wilson-Wilde's evidence that her  
15 20 October '22 report was confined to consideration of how  
16 the laboratory responded to the contamination issue.  
17

18 Ms Amanda Reeves is the executive adviser to  
19 Professor Wilson-Wilde as CEO of FSQ. She has provided two  
20 statements to this Inquiry. Her first statement annexes  
21 and refers to a number of media articles concerning the  
22 Project 13 issue, to which she provides comments. Her  
23 second statement responds to a number of oral statements  
24 made by several of the Project 13 scientists in the hot tub  
25 on 30 October, producing a number of emails as part of her  
26 responses. These matters were addressed in the resumed  
27 second hot tub held yesterday so as to give Ms Ientile,  
28 Mr Nurthen and Mr McNevin an opportunity to respond.  
29

30 Then, lastly, two matters to mention. There was a  
31 submission that was received - a joint submission - from  
32 Brett Scott, Dr Jeremy Watherston and Natasha Mitchell.  
33 Those three comprise the senior leadership team at FSQ.  
34 Their joint submission is supportive of  
35 Professor Wilson-Wilde's handling of the Project 13 issue -  
36 that is, the notion of retesting - and her leadership at  
37 the laboratory.  
38

39 Separately, Mr Rhys Parry is a senior scientist at  
40 FSQ. He provided a statement annexing a joint letter  
41 signed by himself and five other scientists at the  
42 laboratory, collectively the whistleblowers from the  
43 Sofronoff Inquiry. The joint letter is supportive of  
44 Professor Wilson-Wilde and her leadership of the  
45 laboratory.  
46

47 If I can then turn to the third matter, which is the

1 review of the scientists' evidence that was given. As you  
2 will recall, the evidence was given in the course of two  
3 expert witness hot tubs. The first comprised members of  
4 the laboratory at the time that the automated DNA IQ system  
5 was introduced in October '07. The Project 13 scientists  
6 gave evidence about the steps that they took prior, during  
7 and after their validation and implementation of the  
8 automated protocol.

9  
10 A variant of that hot tub gave evidence in a separate  
11 session to address particular points which had been raised  
12 by the very recently received statements of Mr Neville and  
13 also Amanda Reeves. Participants in that resumed hot tub  
14 were Ms Ientile, Mr Nurthen and Mr McNevin.

15  
16 The second expert hot tub was attended by Dr Budowle,  
17 Ms Veth, Professor Wilson-Wilde and Dr Wright. The  
18 principal purpose of that hot tub was to provide expert  
19 opinions responsive to the matters addressed by the  
20 Project 13 scientists hot tub and indeed the evidence that  
21 they gave in writing.

22  
23 The most convenient way to address the oral evidence  
24 of the hearing is by reference to the chronology of events  
25 which took place in the laboratory commencing in late '05  
26 to early '06. A convenient starting point is the 2005  
27 ministerial taskforce report that we've heard of time to  
28 time during the course of this hearing, and that was under  
29 the - section 6.4.5 concerned the introduction of an  
30 automated system in order to clear the backlog.  
31 Commissioner, you drew attention to part of that paragraph  
32 which indicated that the validation could take up to  
33 12 months, it wasn't something that was easily done, and  
34 part of that recommendation also said that it would be  
35 possible to perhaps shorten that period by reference to  
36 work that had been done by other laboratories of repute.

37  
38 Now, in connection with that particular move to  
39 automation the report recommended under recommendation 8  
40 "that the Chief Executive Officer of the Institute ensures  
41 that, when validating future equipment, the validation work  
42 undertaken by other jurisdictions to introduce equipment  
43 [et cetera] is utilised to minimise validation time ..."  
44 Now, before October --

45  
46 THE COMMISSIONER: "While maintaining scientific  
47 accountability".

1  
2 MR FOX: Exactly. Indeed. Before October 2007, when the  
3 automated system was introduced, DNA testing was being  
4 conducted manually by the staff at the laboratory using the  
5 Chelex system and then later then using the DNA IQ protocol  
6 manually. But that was part of the moves to automation.  
7

8 Now, the DNA IQ protocol had been investigated by a  
9 team of seven scientists at the laboratory - this is the  
10 Project 9 report - together with four other potential  
11 extraction kits made by other manufacturers. The  
12 scientists compared these extraction kits against the then  
13 current in-house Chelex protocol and assessed the overall  
14 performance - quality, yield, user-friendliness and ability  
15 to automate - of those kits. A replacement was being  
16 sought for the Chelex protocol because it was found that it  
17 would often leave impurities within the DNA.  
18

19 A team of scientists - that's the Project 9 team -  
20 produced a report dated June '07, which reported on their  
21 investigation of each of the five extraction kits and  
22 recommended Promega's DNA IQ protocol to be adopted for use  
23 in the laboratory. As I said in opening, and I did today  
24 as well, there's no suggestion that that particular device  
25 is not fit for purpose for manual use or indeed in an  
26 automated environment. But the Project 9 team at that time  
27 were only concerned with reporting on its suitability for  
28 manual extraction.  
29

30 As was addressed during the first Inquiry, the  
31 laboratory at this time was under considerable pressure to  
32 reduce the significant backlog of specimens and material  
33 for DNA testing. This was addressed as part of the first  
34 Inquiry and indeed in the final report, and there is no  
35 issue that at the time of these events the laboratory was  
36 operating suboptimally.  
37

38 The laboratory's investigation of automation then  
39 appears to have taken into a new phase in June to October  
40 2007. This is what I'll style as the Project 11 period.  
41 That process started with the team of scientists in the  
42 Project 9 team producing a report ultimately dated August  
43 2008, which is the Project 11 report. Importantly, that  
44 Project 11 team was investigating and reporting on a  
45 modified method of the manufacturer's method; that is, the  
46 team had made changes to the manufacturer's step in the  
47 method. The Project 11 report concluded that the team had

1 "validated" the modified DNA IQ protocol for use in manual  
2 extraction.  
3

4 Now, although the team styled their work as validation  
5 of a modified manual off-the-shelf process, the experts in  
6 the second hot tub agreed that this work fell well short of  
7 a proper scientific validation. There were essentially  
8 four modifications which were made to this off-the-shelf  
9 manual process. The first, as you heard, is that there was  
10 a modification to include a lysis step using an extraction  
11 buffer in the presence of Proteinase K prior to incubation  
12 in the DNA IQ lysis buffer. This modification was  
13 undertaken to follow the automated protocol validated for  
14 use on the MultiPROBE device and developed by CFS in  
15 Toronto.  
16

17 Secondly, the manual process was modified to lower the  
18 lysis incubation conditions from about 65 degrees Celsius  
19 to 35 degrees Celsius. That was done --  
20

21 THE COMMISSIONER: I think it was 37.  
22

23 MR FOX: Thirty-seven. Sixty-five to 37. This was done  
24 to broaden the range of samples to which the process could  
25 be applied. Notably, some substrates such as nylon,  
26 polyester and gum were susceptible to degradation at higher  
27 temperatures, and the laboratory wished to avoid problems  
28 with DNA being encased by dissolving samples which have -  
29 would have lowered the yield.  
30

31 Now, again, that modification to the manual process  
32 followed the CFS automated protocol, and in that regard  
33 Dr Nurthen and Dr Hlinka stated that 37 degrees Celsius is  
34 a standard and acceptable temperature at which to perform  
35 lysis because Proteinase K operates satisfactorily at that  
36 temperature.  
37

38 The third modification was to include a double elution  
39 step of 50 microlitres, whereas the CFS automated DNA IQ  
40 protocol had a smaller elution volume towards the lower  
41 amount recommended in the Promega manual method; that is,  
42 25 to 100 microlitres. This step was introduced to obtain  
43 a higher DNA yield. The experience of the laboratory was  
44 that DNA was still bound to the beads after a single  
45 elution step, and a double elution step allowed for the  
46 recovery of additional DNA.  
47

1 THE COMMISSIONER: I think it was recognised in evidence  
2 that that would give rise to a lower concentration, but  
3 I think Mr Nurthen's evidence was that because it was a  
4 higher quality DNA devoid of inhibitors they were not  
5 concerned about that.

6

7 MR FOX: Yes.

8

9 THE COMMISSIONER: I hadn't gone back and - I haven't got  
10 the transcript to check it, but I think that's right.

11

12 MR FOX: No, and my very next sentence was that, although  
13 the double elution resulted in a lower concentration, it  
14 produced a higher yield, and where necessary the laboratory  
15 undertook an additional concentration step.

16

17 THE COMMISSIONER: I don't think it was a higher yield.  
18 But, again, I'm sure you have a transcript reference to  
19 that. It certainly was better quality.

20

21 MR FOX: Yes.

22

23 THE COMMISSIONER: One of them did say he thought that the  
24 second elution step would bring more off the beads and  
25 therefore give you a higher yield within that process.  
26 Yes, I think that's right.

27

28 MR FOX: Then the fourth laboratory change that was made  
29 was to the plasticware and the consumables. In the first  
30 instance it adopted the Nunc, N-u-n-c, tube plasticware  
31 then already in use in the laboratory. In the second  
32 instance it incorporated the Slicprep devices, a 96 well  
33 spin basket. That was a device newly released on the  
34 market, of which there were no protocols or various other  
35 consumables.

36

37 Taken individually, the making of such modifications  
38 was not controversial. The second expert hot tub  
39 acknowledged that the making of modifications was routine  
40 and to be expected. It's apparent that this is what ought  
41 to have occurred. However, it did not in the present case.  
42 Each modification should have been tested one at a time so  
43 as to ensure that the modifications were made  
44 scientifically rigorous. That was necessary to ensure  
45 validation.

46

47 The next step in the chronology is the Project 9 team,

1 the same team as named in the Project 11 report, then  
2 investigated whether the modified DNA IQ protocol was  
3 suitable for use in an automated system using the  
4 MultiPROBE device. It is this investigation which was  
5 known as Project 13, or has been known at least in this  
6 environment. The results of their investigation were set  
7 out in the Project 13 report. Dr Wright has not only  
8 pointed to the experimental design and results in this  
9 report, but has pointed out that the main conclusion in the  
10 abstract - that's the notion about it being comparable -  
11 the word 'comparable' is inconsistent with the  
12 interpretation of the data and is indeed misleading.  
13

14 Rather, the data in the report as set out most plainly  
15 in a series of bar graphs and in the report showed very  
16 clearly that the results of the automated procedure were  
17 considerably worse than for the manual procedure. The data  
18 and figures show that the automated system was not able to  
19 report DNA yields anywhere near the success rate achieved  
20 for manual testing. Indeed, the automated method failed to  
21 recover detectible DNA from blood on cotton and rayon swabs  
22 at one to 100 and one to a thousand, such dilutions being  
23 comparable to trace blood samples from a crime scene.  
24

25 There are a few important matters which the evidence  
26 confirmed regarding Project 13. Firstly, it's a draft  
27 document. That was agreed by everybody in both hot tubs.  
28 It bears the date of August 2008 as its purported date, but  
29 the automated method was introduced in the laboratory in  
30 October '07. It's unclear who were the actual authors of  
31 the document, although Dr Hlinka acknowledged that he  
32 contributed to writing part of it and noted that the  
33 reference style used his template, whilst Mr Nurthen  
34 thought it likely that he wrote part of the document but  
35 could not identify which part.  
36

37 None of the Project 13 scientists say they wrote the  
38 abstract. The most that was said was that Mr Nurthen  
39 believed it was probably dropped in from the abstract of  
40 another report known as report 1. Nevertheless, a sentence  
41 was added supporting the recommendation for implementation,  
42 and no-one knows who wrote the extra sentence.  
43

44 Mr Nurthen produced as part of his written evidence 10  
45 different iterations of the draft report. It's not  
46 apparent from the evidence which iteration was the  
47 introduced system. There's no evidence to suggest the

1 document was ever finalised, although Dr Hlinka thinks it  
2 might have been. There is no evidence to suggest that it  
3 was distributed outside the laboratory to any other  
4 organisation or entity, such as the Queensland Police, and  
5 Mr Nurthen confirms that he never received a copy.  
6 Although the evidence did not reveal with any precision how  
7 the document came to be created, what is not in dispute is  
8 that the automated method described in the draft report was  
9 in fact implemented in October 2007.

10  
11 The Project 13 report is significant. The data and  
12 results contained in it reveal even prior to its  
13 implementation in October 2007 that the use of the  
14 automated method using the MultiPROBE device was failing to  
15 extract sufficient DNA from crime samples. Samples such as  
16 blood, which should have been rich sources of DNA, were  
17 failing to yield DNA.

18  
19 Shortly before the project's launch Mr Nurthen told  
20 Ms Ientile that he was concerned that it was not ready to  
21 go live because the yields were too low. He did so at the  
22 weekly project update meetings on 9 October '07 and  
23 16 October '07. Ultimately Mr Nurthen did not seek to  
24 escalate his concerns, noting that the laboratory intended  
25 to continue and to optimise the method's development after  
26 implementation.

27  
28 Ms Ientile does not have an independent recollection  
29 of this matter, although she infers from an email that she  
30 sent to the laboratory - that's the general mail-out about  
31 the start of the launch - that it was intended to be a slow  
32 implementation involving significant training. But within  
33 a short time after the automated system was introduced in  
34 the laboratory - that is, after its launch - it became  
35 apparent that the automated system was not operating  
36 optimally.

37  
38 That was addressed by the first Inquiry during the  
39 course of what was called module 6, where it was being  
40 observed that, firstly, contamination was first reported on  
41 11 February '08; secondly, a decision was made in July '08  
42 to cease use of the automated system so that the  
43 contamination issues could be investigated; thirdly, the  
44 laboratory reverted to the manual system for a period of  
45 about 12 to 18 months; and, fourthly, by August '09 the  
46 contamination issues had been resolved, and the fully  
47 automated method then commenced to be used again from 20

1 August '09. The MultiPROBE device continued to be used  
2 until 21 November '16, when the QIASymphony instruments  
3 were introduced.  
4

5 Now, just to deal briefly also with what's been styled  
6 Projects 21 and 22, the Project 13 automated DNA IQ method  
7 provided for all steps in the extraction process to be  
8 performed on the MultiPROBE device; that is, the on-deck  
9 arrangement. However, in early 2008 two further projects  
10 were developed, the first being Project 21 and the second  
11 being Project 22.  
12

13 Each of those projects involved what's known as  
14 off-deck lysis. Mr Nurthen and Mr McNevin each gave  
15 evidence that these projects were undertaken because the  
16 lab found that the Slicprep was too difficult and laborious  
17 to use. Taking the lysis components off-deck was an  
18 attempt to overcome this. This was yet another hurdle that  
19 the laboratory encountered after implementation of the  
20 automated method and that it then needed to improve. This  
21 introduced further variations, which should have in turn  
22 each been validated.  
23

24 Turning then to the issue of re-implementation in  
25 2009, as I indicated before, in July 2008 the automated  
26 system was taken off-line. The lab then commenced using  
27 from 28 July '08 the manual Chelex method and other  
28 methods, including manual DNA IQ method and the NucleoSpin.  
29 The re-implementation of the automated system followed the  
30 resolution of the contamination issues, as I indicated,  
31 dealt with by the Sofronoff Inquiry.  
32

33 Where the present Inquiry then picks up is essentially  
34 the tail end of the contamination resolution period and the  
35 steps taken by the laboratory for the purpose of  
36 reintroducing the automated system. In April 2009 the  
37 automated method was re-implemented in a modified form  
38 pursuant to the project document of that date. The  
39 modified version was quite different from the previous  
40 version that was routinely used in the laboratory. The  
41 laboratory looked at various methods to reduce  
42 contamination, various changes to equipment were made, and  
43 off-deck lysis volumes were reduced from 500 microlitres to  
44 300 microlitres to minimise the risk of well-to-well  
45 splashing and thus cross-contamination.  
46

47 Whilst doing so, the laboratory sought to optimise



1 other steps in the process. After off-deck lysis the  
2 laboratory manually mixed the resin. In this regard it is  
3 Mr Nurthen's view that the mixing step was critical to the  
4 DNA's binding to the resin beads and its subsequent  
5 release.  
6

7 It is clear from the April 2009 report - that's the  
8 TN32 - that the word "efficiency" was considered as part of  
9 the validation process to reintroduce the MultiPROBE to the  
10 laboratory. Mr Nurthen concluded from the testing that,  
11 "The modified method was very sensitive and able to isolate  
12 low copy DNA samples at a very high recovery rate that was  
13 close to 100 per cent." That was because the quality of  
14 the DNA obtained was much higher than that from the Chelex  
15 method. Having come to this conclusion, Mr Nurthen did not  
16 consider yields to be an issue from re-implementation  
17 onwards. The laboratory appears to have believed that it  
18 had validly reintroduced the automated DNA IQ method as and  
19 from the middle of 2009.  
20

21 However, the laboratory failed properly to  
22 re-implement the automated method in modified form owing to  
23 several factors relating to the need to properly validate  
24 the method. The laboratory used genomic DNA as an  
25 efficiency control, not extracted DNA. Further, it tested  
26 only the on-deck component of the process, and thus failed  
27 to test the end-to-end DNA extraction process. Further,  
28 again, there is no evidence to suggest that anywhere else  
29 they undertook experiments to test the end-to-end DNA  
30 extraction process. Consequently, it would have been  
31 impossible to know the yield of any extracted sample.  
32

33 Dr Budowle concluded that, whilst the test appeared to  
34 be one designed "to justify sensitivity of the assay", it  
35 was not possible to do that with the test that was  
36 performed. In these circumstances, Professor Wilson-Wilde  
37 concluded that the re-implementation was not properly  
38 validated and was not done in accordance with good  
39 practice. Therefore, there is no evidence to demonstrate  
40 that following the re-implementation and at any point  
41 between 2009 and 2016 the laboratory actually improved the  
42 method or indeed validated it.  
43

44 As Ms Veth stated in the joint session, "We still  
45 don't seem to have sensitivity data to support the use of  
46 this method. We still have questions about the yields of  
47 DNA that the method is producing and understand that there

1 were some assumptions made that it didn't matter that the  
2 yields were low because the profiling results were better,  
3 or better than Chelex. But I haven't seen any data to  
4 support that anywhere, and I would just - I would just  
5 challenge that that is actually the case."  
6

7 This in turn raises a significant question as to the  
8 quality assurance and quality control in the laboratory at  
9 these times. As Dr Budowle emphasised, and I quote, "We  
10 have to be concerned that maybe the laboratory didn't have  
11 a full appreciation of what a quality system is."  
12

13 Now, in this context something remains to be said  
14 about the Project 70 report that arose in 2011. So this is  
15 now fast-forwarding a couple of years. Project 70 was  
16 conducted to verify a new robot, the Maxwell 16. The  
17 Maxwell 16 operates with off-deck lysis and, unlike the  
18 MultiPROBE device, it has limited scope for customisation.  
19

20 Now, the point of Project 70 being raised by Dr Wright  
21 was because it was - on her view it was another opportunity  
22 where the results indicated that the laboratory should have  
23 been aware about the incapacities of the automated system.  
24 That was the reason why she drew attention to it.  
25

26 Now, an evidentiary or an evidential dispute arose  
27 between Dr Wright and Mr McNevin regarding the significance  
28 of Project 70. It was Dr Wright's opinion that Project 70,  
29 firstly, compared the failed automated DNA IQ method with  
30 off-deck lysis with the new Maxwell robotic method and,  
31 secondly, showed up to eight times lower DNA recovery  
32 between the failed robotic method compared to the Maxwell  
33 method. Dr Wright concluded that the authors, including  
34 Mr McNevin, documented the MultiPROBE method to recover  
35 significantly less DNA than it ought to but did not make  
36 recommendations to fix it.  
37

38 Now, Mr McNevin was adamant that Project 70 used data  
39 from the Maxwell that was comparable to that data produced  
40 by the DNA IQ manual method. It did not use data from the  
41 MultiPROBE automated method. Some of this dispute on this  
42 matter may have arisen, frankly, from imprecise use of the  
43 word "manual" within that particular document. But, having  
44 regard to submissions that I'll make later regarding what  
45 conclusions should be drawn from the evidence that's been  
46 before the Inquiry, in my submission it's not necessary for  
47 the Commission to resolve the dispute that arises with

1 respect to Project 70 and that report.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

Could I then move to the topic of Professor Wilson-Wilde, and firstly I'll deal with the evidence concerning the Project 13 report and how she came to be provided with that and her conclusions in her 20 October 2022 report. Her integrity has been called into question by reason of media reports and statements that have been made by Dr Wright. I outlined those earlier, but, relevantly, questions that have been raised as to, firstly, whether she identified the failings of the Project 13 report in the course of preparing and giving expert evidence in the earlier Inquiry; secondly, and whether and to what extent she reported those failings in her report to the Sofronoff Inquiry or otherwise in the course of assisting that Inquiry or ought to have done so; and, thirdly, the content of subsequent public statements which she has made regarding those matters.

Dealing with the first matter, her role in the earlier Inquiry and the background to her report, she had been engaged to provide an opinion by Mr Sofronoff in response to nine letters of instruction over the period from July 2022 to November 2022. She prepared seven reports to that Inquiry: the first dated 31 July 2022 and the last dated 24 November 2022.

At the time she was assisting that Inquiry, Professor Wilson-Wilde was employed as the director of Forensic Science South Australia. She gave evidence in her statement to this Inquiry that she would usually complete her work for the Commission of Inquiry outside her usual work hours, including over the weekend.

On 16 September 2022 she was asked by counsel assisting, Ms Susan Hedge, if she had capacity to provide a further report. She was given a number of instructions which included by way of background that the, "DNA IQ instrument in and around 2008, it was discovered that the seals from the DNA IQ products (consumables) in the extraction phase were leading to cross-contamination amongst different unrelated samples."

She was also told that in those instructions that, "Once the laboratory discovered the issue, there was a retrospective assessment of all the samples that were processed with the relevant consumables", an issue which

1 affected many batches of samples and required significant  
2 rectification work.

3  
4 She was instructed to advise on - and I just read  
5 these out so that they are clear, and I quote in each case:  
6 - "whether the methods, systems and processes in relation  
7 to the above two issues were consistent with international  
8 best practice when the issue arose"; "whether the  
9 identification, investigation and resolution of the issue  
10 was appropriate and consistent with international best  
11 practice"; and "whether the amended methods, systems and  
12 processes implemented in each case was consistent with  
13 international best practice."

14  
15 In her statement to this Inquiry she stated that her  
16 understanding of instructions was that she was to look into  
17 the contamination samples that were discovered in 2008.  
18 She states that in her statement as the contamination  
19 issue. Her evidence was that she discussed her  
20 instructions with counsel assisting, Ms Hedge, and the  
21 proposed due date of her report, given that she was due to  
22 be overseas in Denmark during the meeting from 30 September  
23 to 10 October 2022.

24  
25 She also gave evidence of various subsequent  
26 interactions with counsel assisting and the provision of  
27 material to her, including correspondence, investigation  
28 files and reports in September '22. She then met with  
29 counsel assisting to discuss the work required and the  
30 timeframes, and gave her evidence that it was "clear" that  
31 the work she was to do was focused on the contamination  
32 issues that arose in and around 2008, including looking to  
33 a potential cause for those issues and whether the  
34 laboratory's response was consistent with good practice.

35  
36 Around that time, Professor Wilson-Wilde gave evidence  
37 in the Inquiry on another question, that's the first  
38 Inquiry, known as the Options Paper. She then flew to  
39 Denmark and, while she was overseas, received more  
40 materials to review. Further instructions were then  
41 provided as well as a supplementary brief of materials.  
42 She was then advised that the deadline for her report was  
43 17 October 2022.

44  
45 The background for the work she was to complete was  
46 contained in an amended letter of instruction dated  
47 12 October, which included the statements under the heading

1 "Background". That again referred to concerns raised about  
2 contamination. She prepared a draft report which she  
3 provided to counsel assisting. She met with counsel  
4 assisting virtually regarding that report.

5  
6 Further materials were then provided to her on  
7 18 October. That material included validation documents.  
8 It included the draft Project 13 report. So that's just  
9 two days now before her report is actually finalised.

10  
11 She was asked to review further topics, including  
12 validations, the adequacy of information contained in an  
13 OQI report to assist with the identification of systematic  
14 issues, and to provide "any recommendations you may have  
15 for future best practice in respect of documents created by  
16 QHFSS". Further communications with counsel assisting  
17 followed, including on the day of her report being signed,  
18 20 October, which respect to validation documents. A draft  
19 report at that time and the provision of more documents  
20 were made to the professor.

21  
22 Further communications with counsel assisting  
23 followed - sorry, I withdraw that. There is no question  
24 that the timing of those communications and the provision  
25 of further documents was a short one; that is, the  
26 professor's report was being sought on that very day.  
27 There is also no question that Professor Wilson-Wilde was  
28 provided with a significant volume of materials to review,  
29 including being provided with various documents on an  
30 iterative basis. She was asked to and did communicate with  
31 counsel assisting regarding her draft report, including a  
32 number of communications and telephone calls in a short  
33 period of time regarding the draft.

34  
35 At 10.30 pm on 20 October she provided her final  
36 report to the Sofronoff Inquiry, which is the one that's  
37 the subject of debate and issue. Her evidence is set out  
38 in the final report at module 5 under the subheading 5.1,  
39 "The contamination event which concerns the contamination  
40 events which were first reported on 11 February '08".

41  
42 Her evidence was that, firstly, she was provided with  
43 a suite of 148 documents exceeding 9,000 pages to review  
44 for this parcel of work and that the time period from  
45 receipt of the revised instructions to her submitted report  
46 was eight days.

1           That evidence was corroborated by Ms Veth in her oral  
2 testimony on Tuesday. She also described this period "as  
3 intense" and noted that she had been asked to review  
4 thousands of documents. Notwithstanding Professor  
5 Wilson-Wilde's evidence regarding the significant volumes  
6 of materials that she had been asked to review in a short  
7 period of time, it is not in dispute that she was briefed  
8 with and reviewed the Project 13 report.  
9

10           Turning then to the issue of her capacity to identify  
11 the yield failures in the Project 13 report at the time she  
12 reviewed that report, it's not in dispute that the  
13 Project 13 report - noting that she says that occurred on  
14 the evening of 20 October, being the same day that she  
15 ultimately produced the report, that is she reviewed it on  
16 the very same day - it's not in dispute that she reviewed  
17 it on that very same day and that in undertaking that  
18 review she identified at least some of the issues that we  
19 know arise with respect to that report; that is, Professor  
20 Wilson-Wilde accepts that at the time she prepared her 20  
21 October report she had read the report, that is the  
22 Project 13 report, and "I had identified it as  
23 problematic".  
24

25           It is also not in dispute that the issues with the  
26 Project 13 report were, to use a colloquial term, obvious.  
27 Indeed, in her statement to this Inquiry she expressly  
28 stated that there were "issues with the DNA yield on the  
29 face of the draft Project 13 report".  
30

31           In oral evidence she accepted that it was readily and  
32 immediately apparent to her that the document was flawed.  
33 She also stated in her statement to this Inquiry that  
34 "ultimately it should never have been implemented given the  
35 number of issues, including that it was a verification and  
36 not a validation".  
37

38           Turning then to the question of whether Professor  
39 Wilson-Wilde addressed the yield issues in her report, it  
40 cannot seriously be in dispute that, notwithstanding these  
41 obvious issues, she did not identify in her 20 October  
42 report that the manual or automated extraction or the  
43 hybrid manual automated extraction methods as discussed in  
44 the Project 13 report or used in the timeframe that the  
45 report purported to cover disclosed a problem with DNA  
46 yield or extraction.  
47

1 To the extent that statements were subsequently made  
2 by her to the media that could be said to suggest that she  
3 did so, those statements are not consistent with what her  
4 report in fact said. She referred to the Project 13 report  
5 in her 20 October report. She provided the following  
6 relevant and limited comment at paragraph 32, "The  
7 verification of the automated method is not consistent with  
8 expected good practice."  
9

10 She said in her statement to this Inquiry that by this  
11 reference she "called out the report as a whole" and that  
12 the phrase "not consistent with expected good practice" was  
13 science-speak for flawed, referring to the whole report.  
14

15 She said further, "I considered that given the number  
16 of issues with Project 13 report and the lack of  
17 information provided that would have allowed me to give  
18 detailed commentary that was supported by a scientific  
19 basis that I was tasked with identifying the cause of the  
20 contamination issue. It was scientifically appropriate to  
21 say that the report as a whole was not consistent with  
22 expected good practice. That is science-speak for flawed."  
23

24 In August 2023 she conducted a number of interviews  
25 with the media in which she referred to the Project 13  
26 report, its methodology and conclusions. During those  
27 interviews she said variously, "I thought the whole thing  
28 was rubbish. The whole project was flawed from the  
29 beginning. The entire project wasn't scientifically valid.  
30 That wouldn't be implemented in the laboratory now. It  
31 wouldn't even have been commenced, quite frankly. I called  
32 out the entire project from the title to the  
33 recommendations. The project, in my opinion, should never  
34 have got off the ground. It should never have commenced."  
35

36 Now, when asked whether with the benefit of reflection  
37 she accepted that the statement, "My report deals with  
38 the whole report, I called out the entire project from the  
39 title to the recommendations" was wrong, she did accept  
40 that it was an overstatement. She said, "It's definitely  
41 an overstatement. I was in my mind referring to the  
42 sentence that the project wasn't - the whole validation  
43 wasn't consistent with good practice and that should not  
44 have been - it should have been a full validation, not a  
45 verification. Those comments I made in it are more general  
46 in nature, but I do concede that my report is largely -  
47 well, it is focused on the contamination issues." She also

1 accepted that "with the benefit of hindsight perhaps  
2 I could have been clearer."  
3

4 Now, in oral evidence she said that, notwithstanding  
5 the concession, it was not her style to report on matters  
6 in this way. When I asked whether she might simply not  
7 have come out in her report and stated it was flawed and  
8 why not just say that, she said, "That's an accepted  
9 terminology and it's an accepted way of phrasing a  
10 scientific opinion. That is how I would phrase it."  
11

12 When asked why her wording changed when speaking to  
13 the media, that is why she did not engage in more strenuous  
14 language responsive to what "you've seen which would more  
15 accurately reflect and more clearly reflect to a reader  
16 your reaction to that document", she responded, "I would  
17 not write a scientific report for a court using emotive  
18 terminology. I would not write that way."  
19

20 She also said, "I wouldn't use emotive language.  
21 I would stick to the terminology that I have that I  
22 utilised. If I was writing the report now I would still  
23 use scientific terminology."  
24

25 Her choice of language in her report is perhaps not  
26 surprising given those matters.  
27

28 THE COMMISSIONER: Just from what you said earlier, the  
29 language in her conclusion reflected the question that she  
30 was asked. The question she was asked was in terms of or  
31 in accordance with best practice or something, and her  
32 response was in those terms.  
33

34 MR FOX: Yes. To the extent that the Project 13 report  
35 was not specifically referred to in her 20 October report,  
36 she emphasised that she answered the question posed of her  
37 in the context of the background of the information and the  
38 focus on the contamination issues and the samples that were  
39 analysed in 2008 as part of the investigation into the  
40 contamination issue - that picks up your observation to me  
41 a few moments ago - that is, she understood her task to be  
42 looking specifically at the contamination issue.  
43

44 She also noted that the Project 13 report was a draft  
45 containing parts that were not finalised. She also said in  
46 her evidence to this Inquiry that because she was tasked  
47 with looking at the contamination issue she was not



1 provided with the project proposal or any other project  
2 design information, therefore felt it was very hard to  
3 provide detailed commentary with a scientific basis on the  
4 Project 13 results.

5  
6 Evidence was also that for her to have commented  
7 further she would have required the project proposals,  
8 including the project design information, the data obtained  
9 and analysed during the project and DNA profile results.  
10 She further noted from the documents provided to her that  
11 she understood that the extraction method had been changed  
12 since Project 13 had been implemented and, on the face of  
13 the brief, the method that was implemented in 2009 had  
14 improved the DNA yield issue.

15  
16 Turning to the communications with counsel assisting,  
17 the further issue arose in this Inquiry as to whether  
18 Professor Wilson-Wilde informed anyone, in particular  
19 counsel assisting in the Sofronoff Inquiry, of the failures  
20 evident in the Project 13 report. In her evidence to this  
21 Inquiry, Professor Wilson-Wilde initially suggested that  
22 she had a discussion with counsel assisting about DNA yield  
23 and Project 13; that is, the change to a fully automated  
24 extraction was a significant change to have occurred at the  
25 time and should have been fully validated, that there was a  
26 difference in yield between the automated and manual  
27 extraction methods in Project 13 which was greater than  
28 expected, and that she believed this was possibly due to  
29 issue with the automated lysis step.

30  
31 Now, her evidence was that she had no recollection of  
32 any response by counsel assisting to those issues. In  
33 evidence to this Inquiry counsel assisting, Ms Hedge,  
34 disputed such a discussion occurred and said that had it  
35 been disclosed to her, that is matters of that seriousness,  
36 she would have taken the issue further.

37  
38 Ms Hedge's evidence was that during the discussion  
39 about the draft report Professor Wilson-Wilde mentioned  
40 some things that were not in the draft, including the  
41 cleaning procedures, but she could not recall the other  
42 issues raised. She recalls the professor mentioned  
43 Project 13 and took her through that particular report but  
44 did not mention yield, to the best of her recollection.

45  
46 Ms Hedge said that, whilst she could not definitely  
47 state that Professor Wilson-Wilde did not inform her of

1 those matters, her best recollection was that she did not;  
2 in other words, "Didn't tell me about the matters of  
3 significance." If she had understood that  
4 Professor Wilson-Wilde was telling her about a significant  
5 or systemic issue which might have called into question the  
6 reliability of results, she would have taken steps to  
7 investigate it.

8  
9 Council assisting's evidence was that the report that  
10 Professor Wilson-Wilde had been asked to prepare was one  
11 relating to the DNA contamination issue only. It would  
12 have been explained to her in terms of contamination events  
13 found after the introduction of the automated process. The  
14 20 October '22 report appropriately addressed the  
15 instructions that the professor had been given. Ms Hedge  
16 did not expect Professor Wilson-Wilde to identify every  
17 problem with every document which she was briefed.  
18 However, had Professor Wilson-Wilde identified a separate  
19 issue that was "worthy of investigation I would have been  
20 keen to hear about it and taken steps to investigate it".

21  
22 Now, following consideration of that evidence, in her  
23 oral evidence before the Inquiry Professor Wilson-Wilde  
24 accepted that her memory of these iterations with counsel  
25 assisting was limited and that, having since then reviewed  
26 the second statement of counsel assisting, she may be  
27 mistaken as to the nature of those discussions about  
28 Project 13 and the yield issue.

29  
30 Her oral evidence was that she had a memory of  
31 discussing Project 13, looking at figure 9, 10, 11 and 12,  
32 "But I'm just not sure when that occurred. I do have a  
33 strong memory of looking at that report and discussing it,  
34 but I just don't know when that occurred. I - the fog of  
35 memory, I just - I just don't know who it occurred with."

36  
37 She had a recollection of looking and discussing the  
38 difference and saying there is a difference in the yield.  
39 "The discussion was in high level detail"; that is "only in  
40 a very high level detail so I have a recollection of  
41 discussing it but, in all honesty, I probably would have  
42 recognised it and then discounted it. I know in my head  
43 that I was thinking about it, but those results. But I - I  
44 might not - appreciate I have no recollection of whether  
45 I said any of that and to whom."

46  
47 Now, it may be that Professor Wilson-Wilde had the

1 problems with Project 13 in her mind when she spoke to  
2 counsel assisting. But the evidence does not establish  
3 that she expressed those matters to counsel assisting in a  
4 way that conveyed that they were a separate, important  
5 issue.  
6

7 There is no evidence before the Commission to support  
8 a conclusion that any other expert raised these matters to  
9 the Sofronoff Inquiry or that Professor Wilson-Wilde was in  
10 fact aware of them doing so. She suggested in her  
11 statement to the Inquiry that yield issues regarding DNA IQ  
12 method were raised to the Commission of Inquiry by  
13 Dr Budowle in his report of 15 September which had been  
14 sent to her on 20 September. DNA yield was also raised by  
15 Dr Budowle, Ms Jo Veth and Dr Wright in their reports  
16 regarding the Blackburn samples.  
17

18 It's correct that the question of DNA yield had been  
19 raised by these experts in their reports. But it must be  
20 noted that this was not in the context of the Project 13  
21 report, as Dr Budowle stated that he had not been given  
22 that report in this Inquiry or indeed in that Inquiry.  
23

24 Now, with respect to statements in the media, in her  
25 statements to this Inquiry Dr Wright has raised a question  
26 about inconsistencies she says arise in what Professor  
27 Wilson-Wilde told various journalists regarding these  
28 matters; that is, whether she identified the issues with  
29 the Project 13 report, referred to those in her report to  
30 the Sofronoff Inquiry, and felt that it was her role to do  
31 so.  
32

33 THE COMMISSIONER: Sorry, Dr Wright felt that it was --  
34

35 MR FOX: Yes, necessary to do so; that's right. Now,  
36 I have addressed those matters in the submissions I have  
37 made by taking you through in detail what was said. In  
38 summary, in her statement to this Inquiry Professor  
39 Wilson-Wilde addresses those assertions and rejects them.  
40 In particular, she rejects that there were inconsistencies  
41 in her public statements as to these matters.  
42

43 The second aspect of the Professor Wilson-Wilde  
44 issues, if I can style them as that, concerns the work  
45 that's been undertaken by FSQ and the advisory board since  
46 the first Inquiry's final report. That's relevant to the  
47 terms of reference because of the consideration of steps

1 which have taken place since the first Inquiry's report has  
2 a bearing on the veracity of adverse media statements  
3 concerning the professor and her capacity to perform the  
4 role of CEO.

5  
6 She was appointed that role commencing on 16 January  
7 2023 and was tasked with rebuilding the laboratory and  
8 implementing recommendations of the Sofronoff report. In  
9 compliance with the recommendations in the Sofronoff  
10 report, an interim FSQ advisory board was established which  
11 provides an advisory role to the CEO, the staff of  
12 Queensland Health, and to FSQ itself.

13  
14 As mentioned previously, the co-chairs of that board,  
15 the advisory board, are Mr Sofronoff KC and Ms Dick SC.  
16 The advisory board has established three subcommittees to  
17 further oversee specific aspects of the laboratory. These  
18 are the forensic medical examinations advisory  
19 subcommittee, the forensic justice advisory subcommittee,  
20 and the forensic biology advisory subcommittee. A range of  
21 experts from a variety of institutions sit on each of  
22 the subcommittees, including some interstate experts. The  
23 constitution of each subcommittee comprises people from a  
24 broad range of organisations and interest groups.

25  
26 Now, on the topic of Professor Wilson-Wilde's progress  
27 at FSQ since January 2023, she provided written evidence in  
28 her statement detailing the reforms that she's either  
29 instituted or intends to institute in the laboratory since  
30 January this year. She also gave oral evidence to the  
31 Commission in respect of those reforms.

32  
33 The evidence before the Commission is that the FSQ has  
34 undergone significant change since January this year. The  
35 major actions taken and reforms implemented by her and FSQ,  
36 I wish to go through a few of them.

37  
38 Firstly, a deep dive into the laboratory's processes  
39 which entailed three independent in-depth reviews conducted  
40 by interstate experts for current evidence recovery DNA  
41 analysis, illicit drug analysis, and clandestine laboratory  
42 analysis services. Those services included a review of the  
43 facilities, validations, methods and procedures of the  
44 laboratory.

45  
46 Secondly, the intense training of FSQ scientists in  
47 DNA interpretation which was carried out by independent

1 overseas experts and an overhaul of the laboratory's DNA  
2 interpretation guidelines.

3  
4 Thirdly, the establishment of a new leadership group  
5 within FSQ which includes a manager of innovation and a  
6 manager of quality, and the development and implementation  
7 of leadership training program.

8  
9 Fourthly, the development of a new project framework  
10 which involves a robust project proposal and approval  
11 process prior to the implementation of projects, including  
12 the requirement for final sign-off by the management team  
13 and an independent interstate expert.

14  
15 Fifthly, the revision and implementation of a new  
16 process for conducting validations, the development of a  
17 detailed validation guideline, and ensuring the FSQ has  
18 appropriate validation documentation for all of its current  
19 methods.

20  
21 Sixthly, the introduction of a number of mechanisms to  
22 support the development of a positive culture, including  
23 hiring a director of wellbeing and culture and a clinical  
24 psychologist, transparent management communication and  
25 reporting, and the ability for staff to raise issues,  
26 including what she described as the CEO drop-in session and  
27 to engage in robust scientific discussion in a safe  
28 environment. And, finally, the stakeholder engagement with  
29 QPS, the Office of DPP and the courts.

30  
31 She also gave evidence that her priority upon  
32 commencement as CEO was to ensure that current processes  
33 and methods meant that current results being released by  
34 the QPS and DPP were accurate and reliable, so earlier this  
35 year she commenced a high-level gap analysis of the  
36 validations in place for the current evidence recovery  
37 processes.

38  
39 In addition, under her direction QFS is also reviewing  
40 the forensic chemistry validations, methods and procedures.  
41 She has also commenced the procurement of new extraction  
42 robots and has plans to research and validate new methods  
43 such as Y-STR testing which is currently being outsourced.

44  
45 She noted that, with the establishment of an  
46 innovation team, the laboratory intends to develop  
47 relationships with other laboratories and universities to

1 ensure an exchange of research and ideas to keep abreast of  
2 developments. In evidence she accepted that there had been  
3 problems arising from the imprecise or inconsistent use of  
4 language in the laboratory. That's obviously in the writing  
5 environment, not necessarily --

6  
7 THE COMMISSIONER: I think Dr Budowle raised that too.

8  
9 MR FOX: Yes.

10  
11 THE COMMISSIONER: He just generally raised the importance  
12 of precise language, especially when you're - it's not just  
13 a random concept. I think he was - probably in the context  
14 of Project 70, but he was talking about the importance of  
15 precision, especially in a case like this where some of the  
16 terminology is - a slight change in terminology gives rise  
17 to different conclusions to the subject matter.

18  
19 MR FOX: Indeed. She noted in that regard about language  
20 that the innovation team manager was currently developing  
21 an SOP for validation addressing some of those concerns  
22 particularly around standardised formatting.

23  
24 In response to the concern that scientists take  
25 personal responsibility, she acknowledged that that kind of  
26 cultural shift would be "a longer journey", those words,  
27 but said that she was confident that they would get there.

28  
29 With respect to any review of historical cases she,  
30 Dr Budowle and Ms Veth agreed that in effect it must be  
31 legally led, subject to questions of materiality and  
32 scientific expertise. Further, she agreed that where  
33 retesting must occur it must be done on the original DNA  
34 samples, extending back to 2007, and will not be limited to  
35 DNA already extracted.

36  
37 THE COMMISSIONER: That is with respect to what we're  
38 talking about.

39  
40 MR FOX: Yes.

41  
42 THE COMMISSIONER: I don't know what other samples she's  
43 looking at. But, with respect to anything affected by the  
44 MultiPROBE work, Project 13 and subsequently, you have to  
45 go back to the original samples. I think that's what she  
46 conceded.

47

1 MR FOX: Yes.

2

3 THE COMMISSIONER: Yes.

4

5 MR FOX: She agreed that "the methods of retesting of  
6 samples would be the optimal method for the substrate and  
7 the biological material" in order to maximise DNA recovery.  
8 The evidence is that under her leadership FSQ has  
9 adopted --

10

11 THE COMMISSIONER: Sorry to interrupt again. I think  
12 there was a discussion also in the context of expert hot  
13 tub where there was discussion about ways of keeping up to  
14 date with the latest in techniques, adopting new  
15 techniques, not always just adopting them willy-nilly, but  
16 considering and if necessary going to specialist  
17 laboratories in order to ensure that the most appropriate  
18 methods were being utilised.

19

20 MR FOX: And that would appear to be an entirely prudent  
21 and --

22

23 THE COMMISSIONER: Yes, it wasn't controversial.

24

25 MR FOX: Yes. She gave evidence that she intends to  
26 implement reforms to the laboratory that not only address  
27 but in fact go beyond the 123 recommendations that were  
28 made in the Sofronoff Inquiry in that report. For example,  
29 her evidence is that the FSQ has taken the changes and  
30 improvements to the quality system and validation  
31 requirements for particular methods a step further than the  
32 reforms set out in the report. Her evidence is that she is  
33 of the opinion that the changes made at FSQ have resulted  
34 in substantial changes to the methods, culture, quality,  
35 innovation and therefore the provision of results to the  
36 justice system.

37

38 THE COMMISSIONER: I'm sorry to interrupt, and it's just a  
39 question I raise. I can't recall whether either in her  
40 statement or in the evidence at all there was any reference  
41 to a change in culture relating to the taking of  
42 responsibility. I don't think you can probably answer it  
43 on the spot, Mr Fox.

44

45 MR FOX: I did indicate a moment ago that she had touched  
46 upon that. It was around the topic of the CEO drop-in  
47 session.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47

THE COMMISSIONER: Right.

MR FOX: And engage in a robust scientific discussion in a safe environment. That was paragraph 11 of her statement and was also addressed at transcript 222, line 32 to 223, line 6.

THE COMMISSIONER: You can.

MR FOX: I can answer it. I like to make sure that the sentences have all got the proper references to them so there is simply no dispute about it.

Now, there was some commentary that was given responsive to listening to the steps that she had undertaken. Those steps that she had been asked to identify in the witness box were important, the commentary being provided independently by Dr Budowle and Ms Veth, and also Dr Wright had an opportunity to hear that. Just to reflect on some of the observations that they made, Dr Budowle, his opinion was that the steps taken by Professor Wilde were "commensurate with the recommendations"; he called that what had happened to date "a Herculean effort"; and said that many of the things that Professor --

THE COMMISSIONER: By "to date" he means when she took over?

MR FOX: Yes. And that many of the things that she had outlined were "spot on". He also noted that "it's much harder to rebuild a lab that has a culture issue and a quality issue than to start a lab from scratch or to take over a lab that is functioning well. So she has a real challenge."

Ms Veth's evidence was that rebuilding the laboratory "is an enormous task" and "frankly, I'm surprised at what Professor Wilson-Wilde has already been able to accomplish so far". Her view was that the "projects Professor Wilson-Wilde has identified seem appropriate given what came out of the Commission", being the first Inquiry.

Dr Wright agreed that the task of rebuilding the laboratory "is an enormous amount of work" and that it would take "many, many years to do the technical side of



1 it, but also the cultural side of it". As I indicated  
2 before, Professor Wilson-Wilde said that it was a cultural  
3 change of a long journey.  
4

5 Now, there have been a number of endorsements of  
6 Professor Wilson-Wilde which ought to be noted concerning  
7 her performance as the CEO since the beginning of this  
8 year. I indicated before, the Commission received two  
9 statements from FSQ management and scientists endorsing her  
10 performance to date as the CEO. In evidence is a  
11 submission to the Commission of 25 October jointly signed  
12 by members of the FSQ leadership team. I indicated that  
13 was Mrs Scott, Jeremy Watherston and Natasha Mitchell.  
14 That submission further supports Professor Wilson-Wilde's  
15 evidence as to current practices in the laboratory and the  
16 systems and processes established under her leadership.  
17

18 The submission includes the following paragraph, and I  
19 just wish to quote it:  
20

21 *Since our commencement, Professor Linzi*  
22 *Wilson-Wilde has made it clear that the*  
23 *review of current practices at FSQ shall*  
24 *attend beyond the recommendations provided*  
25 *by the 2022 Commission of Inquiry into*  
26 *Forensic DNA Testing in Queensland. Whilst*  
27 *we continue to assess and seek to*  
28 *understand the full extent of the workings*  
29 *of the laboratory, we have identified*  
30 *multiple fundamental deficiencies and are*  
31 *progressively working to address these.*  
32 *Professor Wilson-Wilde readily seeks our*  
33 *authoritative advice and enables us to be*  
34 *effective leaders, encouraging us to*  
35 *challenge the status quo. In her messaging*  
36 *to staff, Professor Wilson-Wilde has*  
37 *consistently conveyed that we are striving*  
38 *to create a culture of transparency and*  
39 *continuous improvement at FSQ.*  
40

41 That leadership team further commented on her responsive  
42 leadership style, which was said to be focused on  
43 "empowering our staff to develop our laboratory and a  
44 world-class facility".  
45

46 Also in evidence is the statement dated 27 October  
47 from Dr Rhys Parry, who holds the position of senior

1 scientist in the forensic biology division of FSQ. Annexed  
2 to his statement is a joint statement by the current FSQ  
3 scientist Emma Caunt, Ingrid Moeller, Alicia Quartermain,  
4 Kylie Rika and Angelina Keller, all of whom also worked  
5 under the previous QHFS management. In that joint  
6 statement the scientists relevantly make the following  
7 observations:

8  
9 *We are more confident than at any time in*  
10 *the past that we are in a position to raise*  
11 *concerns and freely discuss differences of*  
12 *scientific opinion in an appropriate*  
13 *format.*

14  
15 There is a further piece of evidence for you, Commissioner,  
16 on that point that you raised with me earlier. The next  
17 quote:

18  
19 *We have found Professor Wilson-Wilde to be*  
20 *very open and responsive to meaningful*  
21 *scientific discussions when differences of*  
22 *scientific opinion have arisen, and she*  
23 *often speaks on the critical importance of*  
24 *diversity of thought in all our staff*  
25 *meetings. The required changes as*  
26 *recommended by the Sofronoff report [they*  
27 *say] are now being implemented under*  
28 *the direction and guidance of Professor*  
29 *Wilson-Wilde, whose goal and focus in our*  
30 *opinion and observation is to strive for*  
31 *best scientific practice. Since the*  
32 *arrival of Professor Wilson-Wilde, many of*  
33 *the recommended changes have been finalised*  
34 *or are in the process of being implemented.*

35  
36 Then finally they say:

37  
38 *The COI recommendations set the roadmap to*  
39 *reform our laboratory from the ground up*  
40 *and, under new leadership, Forensic Science*  
41 *Queensland is going beyond the*  
42 *recommendations to review all current and*  
43 *past practices to identify and address any*  
44 *affected cases. We are heartened to know*  
45 *that these actions are already having a*  
46 *positive impact on the justice system and*  
47 *we feel confident that we are now in an*

1           *environment in which we can raise*  
2           *scientific concerns of this audit to*  
3           *achieve sound resolutions. With Professor*  
4           *Wilson-Wilde's leadership and scientific*  
5           *expertise and the support of the broader*  
6           *FSQ leadership team, we remain focused on*  
7           *helping to develop our laboratory into a*  
8           *world-class facility for Queensland.*

9  
10          Finally, I wish to draw attention to the evidence that we  
11          received from a Ms Amanda Reeves, who made a written  
12          statement on 27 October 2023. She's been a long-term  
13          employee in the Forensic DNA Analysis section of  
14          Queensland Health who is now employed as the executive  
15          adviser to Professor Wilson-Wilde. I just pause there for  
16          a minute. If there were to be one person who would be able  
17          to say in the proximity of her work to the professor that  
18          if there was a chink in any of the other statements that  
19          have been made by anybody else it's often - and,  
20          Commissioner, you would be aware from your own experience,  
21          it's the person in a close administrative and a supportive  
22          fashion who would know full well as to whether or not  
23          anyone was gilding the lily in terms of evidence that might  
24          be given.

25  
26          THE COMMISSIONER:    Why would I know that?

27  
28          MR FOX:        I simply --

29  
30          THE COMMISSIONER:    I hope you're not making any untoward -  
31          as a general proposition --

32  
33          MR FOX:        No, no.

34  
35          THE COMMISSIONER:    (Indistinct).

36  
37          MR FOX:        No, no, I just simply make it as an observation,  
38          that a person of that proximity decides to come forward and  
39          give support to a person of Professor Wilson-Wilde's  
40          position, it's a matter that I consider to be of some  
41          significance.

42  
43          THE COMMISSIONER:    Yes. I think also Ms Reeves described  
44          herself as a whistleblower in previous occasions.

45  
46          MR FOX:        I understand that.    I understand that.

47

1 THE COMMISSIONER: So she's not frightened to call things  
2 out from that --

3

4 MR FOX: Not frightened at all. She says:

5

6 *As a long-term employee of*  
7 *Queensland Health and repeat whistleblower,*  
8 *my position is that prior to my return to*  
9 *FSQ in February 2023 I had never met nor*  
10 *worked with Professor Wilson-Wilde. I have*  
11 *confidence in the direction that Professor*  
12 *Wilson-Wilde is taking the laboratory. My*  
13 *current assessment is that the new*  
14 *governance framework and revitalised*  
15 *leadership team is more than adequate to*  
16 *allow for recommendations and any other*  
17 *associated matters to be implemented and*  
18 *for historical casework to be addressed.*

19

20 In respect of the implementation of recommendations in the  
21 Sofronoff report, she says in her statements at paragraphs  
22 23, 4, 5 and 6:

23

24 *It is my experience from working closely*  
25 *with Professor Wilson-Wilde that, when the*  
26 *lab identifies any scientific quality*  
27 *issues with its processes or methodology, a*  
28 *proactive and measured approach is taken*  
29 *towards achieving an appropriate*  
30 *resolution. If a situation were ever to*  
31 *arise where issues were identified and*  
32 *there was no apparent intention by the lab*  
33 *to address or investigate these issues, I*  
34 *would as I have always done in the past*  
35 *escalate my concerns via the proper*  
36 *channels.*

37

38 That picks up the point you just made to me a moment ago:

39

40 *I'm aware that as a result of an update*  
41 *received on 16 October 2023 from the*  
42 *implementation manager, Rhiannon Hunter,*  
43 *that once the quality positions have been*  
44 *filled recommendation 105 is to be the*  
45 *first project undertaken by the quality*  
46 *coordinator, biology. As at 12 September*  
47 *2023 the onboarding quality team was moved*

1 to "in progress" and included links to  
2 Project 13 and continual review of  
3 historically affected casework in  
4 accordance with recommendation 105. In my  
5 opinion, the cultural leadership problems  
6 in the lab that enabled Project 13 to  
7 become a problem are no longer present in  
8 the lab today.

9  
10 Could I then move to the final topic, which is to provide  
11 submissions in relation to conclusions on the evidence and  
12 very briefly to make some observations about the issue of  
13 recommendations.

14  
15 With respect to the Project 13 scientists and the  
16 implementation of the failed method, the implementation of  
17 the automation project, referred in shorthand as  
18 Project 13, occurred a significant time ago, some 16 years.  
19 Given the passage of time, it is to be expected that the  
20 recollection of the scientists involved in the  
21 implementation of the automation project would not have the  
22 clarity that is accompanied by recent memory.

23  
24 That said, each of the scientists could be said to  
25 have given evidence of their best recollections, often  
26 aided in their recall by reviewing historical records.  
27 Their oral testimony did not reveal any suggestion that  
28 they were given other than as honest recollections. They  
29 made appropriate and many acknowledgments of the  
30 difficulties and deficiencies in the laboratory, and in  
31 evidence readily recognised many of those deficiencies  
32 arising with respect to the automation project.

33  
34 The fact that at times they provided oral evidence  
35 which might have justified or been seen to be self-serving  
36 justifications of their individual decisions ought not to  
37 be taken as diminishing their evidence. Rather, evidence  
38 of that kind may be understood as reflecting their honest  
39 belief that their actions at that time were considered in  
40 their mind to have been proper and appropriate.

41  
42 The assistance given to the Inquiry by Mr Nurthen  
43 warrants particular note. He was able to provide the  
44 Commission with a broad range of documents, which included  
45 multiple drafts of the Project 13 report as well as  
46 information on the history of the development of the  
47 implementation project. His responses to the questions

1 that were put to him were clear and consistent, including  
2 with respect to matters raised of which he was aware and  
3 also matters which didn't fall under his direct  
4 responsibility but he had awareness of.

5  
6 In light of the scientists' evidence, it's open to the  
7 Commission to conclude on the evidence that, firstly, the  
8 concept of taking the DNA extraction system validated by  
9 either a manufacturer or another reputable laboratory was  
10 scientifically valid.

11  
12 Secondly, the expectation of the scientists was that  
13 adopting the system would be relatively straightforward and  
14 also that they would be able to take the validated system  
15 and modify it to encompass an automated version of a manual  
16 extraction method. In implementing the system in this  
17 manner, problems were nonetheless encountered in the  
18 laboratory. It's not apparent to the scientists - or it  
19 was not apparent to the scientists where or why the  
20 problems with the automated system were arising. They  
21 never reached the point where they could say with certainty  
22 what was causing lower yields than might have been  
23 expected.

24  
25 Mr Nurthen was of the view that the time that the most  
26 likely reason was that there was an issue was with respect  
27 to the adherence of the DNA with and then the removal of  
28 the DNA from the magnetic beads, and he stated as follows,  
29 and I quote from the transcript:

30  
31 *Yes, but we think that - well, I think from*  
32 *the experiments that we've seen, that's the*  
33 *critical part, is that binding and the*  
34 *release. It works on an ionic strength,*  
35 *the way the beads and the way the DNA will*  
36 *bind to the beads. So I don't think we had*  
37 *any issue getting the DNA out of any of*  
38 *the cells. I think the 37 degrees and the*  
39 *TNE buffer worked fantastically. I think*  
40 *the issue we were having was having it*  
41 *bound to the beads and getting them back*  
42 *off the beads, hence the double elution*  
43 *being required because some of that DNA was*  
44 *stuck to the beads.*

45  
46 THE COMMISSIONER: Just to clarify, that's his opinion  
47 now. That's his opinion.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47

MR FOX: Yes.

THE COMMISSIONER: It still is his opinion. There was an issue about the 37 degrees that was raised I think by Dr Wright and a concern that perhaps - if I can get it back in my head. It related to the temperature of the prime activity of DNA nuclease or perhaps it was Proteinase K. There was no scientific data to back it up, but she did raise that as a possible issue. I don't recall if that was raised with Mr Nurthen or not. It just came out in a different hot tub obviously. But my recollection is that Mr Nurthen was concentrating on the beads, and that's what they were obviously doing at the time. But one of the other uncertainties is whether the temperature - we don't know, whether the temperature may also have been a factor.

MR FOX: Yes. We certainly didn't have evidence before us to say that it was.

THE COMMISSIONER: No. But, like a lot of these things which were not experimentally validated, there are theoretical possibilities that were not tracked.

MR FOX: Yes.

THE COMMISSIONER: I may not be correctly stating the summary of the evidence, but that's just my recollection.

MR FOX: Yes. Just to complete the quote, he said.

*... hence the double elution being required because some of that DNA was stuck to the beads. Ideally, one elution should allow it to fully come off. But it wasn't coming off.*

Mr Nurthen was concerned that the automation step was implemented because the DNA yield was low, and he expressed his concerns about the system being launched. He raised those concerns with Ms Ientile, the managing scientist. Notwithstanding those concerns, a decision was made to go ahead and implement the system, albeit not for all samples, and then to optimise the system "on the run". From other evidence before the Commission it's quite clear that this was not an appropriate way to validate or indeed to

1 implement a new system.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

Once the contamination issues arose in early '08, which is only a matter of months after the automated system had commenced, the entire focus of the laboratory and the scientists was directed to resolving that issue. When that issue was resolved in early to mid '09, re-implementation of the system occurred and the laboratory team considered that it was appropriate to do so in the circumstances.

After undertaking the tests set out in the April 2009 report, TN32, owing to the conclusions reached about sensitivity of the modified automatic method and the very high recovery rate achieved by the automated part of the process - that was close to 100 per cent - yields were not considered to be an issue. The laboratory believed that it had validly reintroduced the automated DNA IQ method. However, it can be noted that this did not include the recovery rate from the off-deck lysis and mixing stage.

However, with regard to the nature and scope of this Inquiry, it's not necessary, in my submission, for the Commission to investigate and reach conclusions about every aspect of the automation project. What is clear is that the evidence establishes that the retesting of samples must go back to the beginning of Project 13, and that's necessary; that is, to the very introduction of the MultiPROBE itself.

There can be no sensible dispute on the evidence before us that this is the case. The Commission can't be satisfied, in my submission, that the flaws that attended the automation project were ever fully addressed during the period from 29 October '07 to 21 November '16, being when it ceased.

THE COMMISSIONER: I don't think any opinion has been expressed to the contrary.

MR FOX: Indeed. There is no dispute that the samples themselves will need to be retested, not the extracts, nor is there any dispute that the process should be first legally and then scientifically led.

Having reached these conclusions, it's appropriate to reflect upon the observations of the experts concerning the conduct of the Project 13 scientists both in their



1 implementation and validation of what's described as  
2 Project 13 and more generally.

3  
4 Each of the independent experts - Budowle, Veth,  
5 Wright, and Wilson-Wilde - were of the view that the  
6 approach of the scientists lacked scientific rigour, proper  
7 quality control, and was insufficiently documented. This  
8 in turn undermined the ability of the scientists to  
9 implement effective continuous improvement processes. Most  
10 saliently, there is no evidence that they ever effectively  
11 implemented the automated method.

12  
13 There was no evidence which could support the  
14 suggestion that the Project 13 scientists engaged in  
15 deliberate misconduct in connection with Project 13. It  
16 could, however, be said that their conduct reflected  
17 systemic clinical governance failures in the laboratory  
18 during that period.

19  
20 With respect to Professor Wilson-Wilde and the alleged  
21 failure to address the Project 13 report in her 20 October  
22 '22 report in the first Inquiry, she acknowledged that upon  
23 reviewing the Project 13 report issues with the DNA yield -  
24 the problems with the DNA yield or issues with the DNA  
25 yield were apparent on the face of the document. She  
26 accepted that it was "readily and immediately apparent" to  
27 her that the document was flawed.

28  
29 To the extent that she initially suggested that she  
30 had discussed DNA yield and Project 13 with  
31 counsel assisting, Ms Hedge, counsel assisting provided two  
32 statements to the Inquiry disputing that such a discussion  
33 occurred; that is, it was counsel assisting's best  
34 recollection that Professor Wilson-Wilde did not inform her  
35 of those matters.

36  
37 Her evidence was, further, that if she had understood  
38 Professor Wilson-Wilde was telling her about significant or  
39 systemic issues which might have called into question the  
40 reliability of results she would have taken steps to  
41 investigate it. That tends to confirm that Professor  
42 Wilson-Wilde hadn't conveyed to counsel assisting those  
43 matters of significance.

44  
45 Now, following consideration of that evidence in her  
46 oral evidence before the Inquiry, Professor Wilson-Wilde  
47 accepted that her memory of these interactions with

1 counsel assisting was limited and that, having since then  
2 reviewed the second statement of counsel assisting, she may  
3 be mistaken as to the nature of those discussions.  
4

5 It is open to the Commission to conclude on the  
6 evidence that Professor Wilson-Wilde did not inform  
7 counsel assisting that Project 13 was such a flawed  
8 document that the entire automated procedure with respect  
9 to DNA testing was invalid. The importance of this issue  
10 was not conveyed with respect to the consequence of a low  
11 extraction of DNA.  
12

13 The conclusion is similarly available from  
14 the evidence that, if Professor Wilson-Wilde did in fact  
15 mention the yield issues evidence in the Project 13 report  
16 to counsel assisting, it was certainly not sufficient to  
17 gain the attention of counsel assisting.  
18

19 As to whether Professor Wilson-Wilde addressed or  
20 addressed sufficiently the apparent problems with yield  
21 arising from the Project 13 report in her 20 October '22  
22 report, it cannot be seriously put in dispute that she did  
23 not identify that the manual or automated extraction or  
24 hybrid manual automated extraction methods as discussed in  
25 the Project 13 report or used in the timeframe that the  
26 report covers disclosed a problem with DNA yield or  
27 extraction.  
28

29 What Professor Wilson-Wilde did do was to identify in  
30 her report that "the verification of the automated method  
31 is not consistent with expected good practice". Her  
32 evidence to this Inquiry was that by this reference she had  
33 called out the report as a whole and that the phrase "not  
34 consistent with expected good practice" was science-speak  
35 for flawed.  
36

37 In her oral evidence she maintained the view that that  
38 language used by her was proper language for an expert  
39 report; that is, that she was very careful and conscious of  
40 not writing anything in the report that she couldn't  
41 definitely support with empirical data - that's a quote  
42 from her - and that she was also writing the report very  
43 much for the task that was at hand, again a further quote.  
44

45 While the reference in her report was brief, it's open  
46 to the Commission to conclude that on the evidence that  
47 Professor Wilson-Wilde's statement in her report was an

1 accepted way of phrasing a scientific opinion to convey  
2 that the automated method as disclosed in the Project 13  
3 report was not a valid method as a whole.  
4

5 The Commission may find that Professor Wilson-Wilde's  
6 use of language consistent with scientific report writing  
7 was appropriate, namely where she was answering the  
8 specific questions posed to her which focused on  
9 contamination. Nonetheless, she accepted that her language  
10 "could have been clearer".  
11

12 With respect to what follows, the evidence establishes  
13 that the professor will now take steps to address the  
14 problems associated with the Project 13 automated method.  
15 The recommendation was recently proposed that all serious  
16 cases between 2007 and July 2008 be reviewed. That's the  
17 draft minutes. In her oral evidence in response to your  
18 question she said that she would now be advocating that the  
19 laboratory go back from the very beginning to October 2007.  
20

21 THE COMMISSIONER: From a later date.  
22

23 MR FOX: From a later date, yes. She candidly accepted  
24 that, until the media raised issues regarding the  
25 Project 13 report, she had not prepared a paper or other  
26 documentation which might provide such recommendation.  
27 Indeed, she acknowledged that the only reason why such a  
28 paper had been prepared was because she had been prompted  
29 by reason of the interview with the journalist from  
30 The Australian.  
31

32 That said, Professor Wilson-Wilde did already have a  
33 plan in place for reviewing historical samples in the  
34 laboratory but not for the whole of the timeframe presently  
35 recognised.  
36

37 In my submission, it is open to the Commission to  
38 accept her explanation as to why that was the case; that is  
39 that, since she commenced in her new role, her focus had  
40 been on ensuring that the current methods used by the lab  
41 are fit for purpose and setting up the necessary  
42 infrastructure. She also gave evidence that she was  
43 focused on implementing recommendation 105, which requires  
44 that the lab go back through that work in any event. She  
45 accepted in her oral evidence that retesting of samples  
46 going back to Project 13 times was required, including in  
47 order to provide confidence to the public that the issue

1 was being looked at.

2  
3 Now, as to her performance as CEO of FSQ, it's plain  
4 that since her appointment she has taken significant steps  
5 directed to the performance and culture of that body. In  
6 my submission, the following conclusions may be drawn from  
7 that evidence concerning those steps.

8  
9 Firstly, she has to date made extensive and  
10 substantial changes to the FSQ's methods, culture, quality  
11 and innovation. She has already achieved the  
12 implementation of numerous recommendations from the  
13 Sofronoff report.

14  
15 In respect of the review of historical cases in  
16 recommendation 105, such review will encompass samples  
17 extending back to 2007 and, where retesting is necessary,  
18 will not be done on the original DNA samples and will not  
19 be limited to the extracted DNA.

20  
21 Ms Veth and Dr Budowle are of the view that the  
22 reforms undertaken by the professor at FSQ are commensurate  
23 with the recommendations by the Sofronoff report and are an  
24 impressive accomplish so far. The professor has the  
25 confidence and backing of the FSQ leadership and  
26 scientists, from the evidence that I've taken you to.

27  
28 THE COMMISSIONER: (Indistinct). There is a lot of  
29 evidence from Professor Wilson-Wilde and the scientists  
30 presently at the laboratory as you have stated. Is there  
31 any evidence or any assertion to the contrary that you  
32 can --

33  
34 MR FOX: That anybody has suggested, whether current or  
35 former employees --

36  
37 THE COMMISSIONER: Current.

38  
39 MR FOX: I would have drawn attention if there had been a  
40 current staff member who had given us a statement.

41  
42 THE COMMISSIONER: I'm not certain even if there's even an  
43 assertion. That I don't know. But there's no evidence --

44  
45 MR FOX: There's no evidence that's been put before you of  
46 any contradictor.

1 Can I then turn to the final topic of recommendations.  
2 In my submission, the Commission may wish to consider  
3 making recommendations that deal with at least two matters.  
4 These all concern recommendation 105. There is no  
5 submission that's made by any of the other parties who  
6 participated in this hearing that there need be any further  
7 recommendation made and there's no submission made other  
8 than recommendation 105 is perfect as it is.

9  
10 I think the most important submission, with all due  
11 respect to all the various parties who have made  
12 submissions, the most important submission comes from  
13 Queensland Health, and it considers that there's no need  
14 for any modification or variation of recommendation 105.  
15 They consider that the recommendation is sufficiently broad  
16 to encompass the matters that have been brought before you  
17 in this Inquiry.

18  
19 So the two matters that I would invite your  
20 consideration, firstly, whether recommendation 105 is  
21 expressed sufficiently to encompass the evidence  
22 given regarding --

23  
24 THE COMMISSIONER: Sorry to interrupt you. But, in that  
25 regard, bearing in mind that one can say here and now one  
26 could construe it to be broad enough perhaps, and I haven't  
27 looked at it for this purpose yet until I come to the  
28 conclusion of the report, but just looking at the wording  
29 of it, yes, one could look at it and possibly construe it  
30 as being broad enough, sufficiently broad, if we go that  
31 way. But it's of interest that it wasn't construed perhaps  
32 to encompass, for example, the dates until now.

33  
34 So there's two possibilities, aren't there? One is  
35 it's sufficiently said to put recommendation 105 in context  
36 - I may be jumping the gun for you, Mr Fox - or clarifying  
37 it by rewording the recommendation or by dealing with the  
38 wording of the recommendation to make it clear.

39  
40 MR FOX: That's the very territory I was going to venture  
41 into. I'll keep it brief.

42  
43 THE COMMISSIONER: No, I was just dealing with the comment  
44 in the submission that it was sufficiently broad. I think  
45 the point I was making was it hasn't presently necessarily  
46 been construed, for example, to cover what we're dealing  
47 with.

1  
2 MR FOX: Yes. I would venture to say this in relation to  
3 what you've said, Commissioner; that, like statutory  
4 construction, one can have a phrase that on its literal  
5 meaning it might mean one thing but then when you look at  
6 what was intended by the second reading speech and other  
7 supporting materials it was to have a different life.

8  
9 THE COMMISSIONER: Maybe what you're doing is (indistinct)  
10 second reading speech material --

11  
12 MR FOX: That's the essence of where I'm heading. So  
13 could there be some re-crafting of the recommendation to  
14 make it very clear that it also includes the Project 13  
15 issue? The second point related to that is whether,  
16 because it doesn't have an expression of date range, it  
17 could be read down in some way by reason of what the  
18 Sofronoff Inquiry was investigating. Those are the only  
19 matters that I would make any suggestion.

20  
21 I should just indicate that the only - sorry, there is  
22 one further matter. I know that there's been a notice to  
23 produce that was issued that sought to obtain documents  
24 relating to KPIs associated with the CEO's position at FSQ.  
25 It may be, Commissioner, on reviewing matters that you  
26 consider that there should be some recommendation made  
27 about implementation of KPIs for the CEO's position to  
28 ensure compliance --

29  
30 THE COMMISSIONER: Recommending that KPIs reflect  
31 implementation of the - not broadly because I'm not  
32 covering all of that, but KPIs against the specific  
33 implementation that we're discussing, taking into account -  
34 again, it would have to take into account the timeframes  
35 that the evidence said applied to the implementation of the  
36 recommendations. I'm not sure - it would have to be  
37 progressive, because I don't have any evidence to tell me  
38 how much time it would take to revisit the samples that  
39 were to be retested.

40  
41 MR FOX: Yes. I think that's - one point of reticence on  
42 my part, but one wouldn't wish to impose an undue burden by  
43 reason that - it would have to be something that would be -  
44 again, we haven't had the benefit of any evidence on the  
45 topic.

46  
47 THE COMMISSIONER: No.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47

MR FOX: But it's really just more --

THE COMMISSIONER: It could be a matter for the board or it's up to the board, really. It could just be that the board look at the questions of KPIs rather than trying to draft them myself.

MR FOX: Yes.

THE COMMISSIONER: It's a matter for the board.

MR FOX: Thank you, Commissioner. Those are my submissions.

THE COMMISSIONER: Thanks, Mr Fox; not that far out from the original time estimate.

First, I should record the enormous effort that has gone into the preparation of these submissions from Mr Fox and other counsel assisting. I think everyone in the room will appreciate that that has required quite an effort to draw together the material, and I want to record my thanks to the counsel assisting team and to the entire team supporting the Inquiry.

I should just make an observation. It's been said before, and I'm going to come to the other counsel in a moment. This Inquiry was set up on quite short notice and, while it's easy to look at when notices went out and the time given for response to notices to produce and notices to give statements, and indeed the timing of the evidence for this Inquiry, a lot of people - including myself before I got involved in any of these things - assumed that everything happens on - that sort of thing can happen on Day 1.

It doesn't deal with the steps that need to be taken to set up the Inquiry itself, and the front-loading that goes into everything from getting a team together, finding premises, setting up a website that can be used for the benefit of those who wish to have access to the material, the recording system, and all of the other matters that go - even finding at short notice counsel and others with sufficient time to devote to - necessary to be counsel assisting in this Inquiry.

1           So I formally wish to record my appreciation to all  
2 involved in that regard. So, anyone who thinks they've  
3 been given insufficient time to prepare their responses, it  
4 is nothing compared to what's gone on inside the Inquiry  
5 itself.

6  
7           Having said that, I do appreciate the efforts that  
8 have been made by all those involved as witnesses in the  
9 Inquiry and those representing them. Thank you very much  
10 for getting your written submissions to us in the time that  
11 you did.

12  
13           So now I'm just going to ask if anybody has anything  
14 additional they wish to say in response to  
15 counsel assisting's submissions.

16  
17 MR FOX: I should just add or whether they would wish -  
18 you indicated yesterday that if people needed the lunch  
19 break to confer.

20  
21 THE COMMISSIONER: Yes, you can have a lunch break.

22  
23 MR FOX: They might be able to give an opportunity now.

24  
25 THE COMMISSIONER: Or you can take the opportunity to put  
26 no more than half a page in in writing.

27  
28 MR RICE: We don't wish to be heard further, Commissioner.  
29 Thank you.

30  
31 THE COMMISSIONER: Thank you.

32  
33 MR DIEHM: Commissioner, I can be very brief orally now  
34 rather than coming back after lunch.

35  
36 THE COMMISSIONER: Okay. That's a promise.

37  
38 MR DIEHM: Yes, it is. It's merely one point, which is  
39 dealt with in our written submissions. But, given what  
40 Mr Fox has addressed you orally on, I draw it to your  
41 attention. In terms of the evidence concerning the  
42 exchanges between our client and Ms Hedge - and this  
43 involves absolutely no criticism of Ms Hedge, I might say  
44 as well at the outset, nor do our written submissions -  
45 Ms Hedge in her supplementary statement at paragraph 11  
46 dealt with what was said by our client in paragraph 70 of  
47 her statement, and in paragraph 11(b) she referred to



1 paragraph 70(a) of that statement in which our client said  
2 that she had informed counsel assisting that the change to  
3 a fully automated extraction was a significant change to  
4 have occurred at that time and should have been fully  
5 validated. Ms Hedge said of that that she knew that  
6 Adjunct Professor Wilson-Wilde held that view in October of  
7 2022, but she could not say whether she knew that from  
8 discussion with her or from the report that was written.

9  
10 Now, that at the least goes to the submission made by  
11 counsel assisting that the way in which Adjunct Professor  
12 Wilson-Wilde expressed herself in writing her report was an  
13 accepted way of phrasing such a matter in an expert report.  
14 But it is also relevant to the other considerations of the  
15 extent of the communication.

16  
17 THE COMMISSIONER: I think the submission, as I heard it,  
18 was that she may not - I think Mr Fox submitted that that  
19 could well be sufficient to deal with the entirety of  
20 the Project 13 so-called validation.

21  
22 MR DIEHM: Yes.

23  
24 THE COMMISSIONER: But I think the issue comes down really  
25 to whether she expressly referred with sufficient clarity,  
26 for want of a better word, to the yield aspect --

27  
28 MR DIEHM: Quite so.

29  
30 THE COMMISSIONER: And I don't think there's anything -  
31 that's the way I heard the submission. I think that's what  
32 you're really dealing with, isn't it, Mr Diehm?

33  
34 MR DIEHM: Yes, and I am perhaps --

35  
36 THE COMMISSIONER: I am very experienced with expert  
37 reports and the way in which they're framed.

38  
39 MR DIEHM: Quite so. I'm sure that's the case,  
40 Commissioner. So, at the risk of having misapprehended  
41 what Mr Fox was saying as to the actual exchanges that  
42 occurred between them, there was to that extent common  
43 ground as to the nature of the communications --

44  
45 THE COMMISSIONER: If I understand your submission, you're  
46 saying that there is no dispute that the validation - the  
47 lack of validation or the concerns about validation that

1 Dr Wilson-Wilde had were sufficiently conveyed to Ms Hedge,  
2 who appreciated that that point had been made by that stage  
3 one, isn't it?  
4

5 MR DIEHM: Yes. Well, I should for the sake of certainty  
6 of that submission say that there is no dispute that our  
7 client identified that there was - that such a change  
8 needed a - sorry, that it was a significant change and that  
9 it should have been fully validated.

10  
11 THE COMMISSIONER: Yes, I understand.

12  
13 MR DIEHM: Yes.

14  
15 THE COMMISSIONER: I didn't hear Mr Fox saying anything  
16 differently.

17  
18 MR DIEHM: No. And the reason why I paused to clarify  
19 that was so as not to be suggesting that that involved an  
20 expression of opinion of all of the problems that there  
21 were as the evidence reveals with respect to the lack of  
22 validation.

23  
24 THE COMMISSIONER: No, I don't think the lack of  
25 validation was really the focus of that --

26  
27 MR DIEHM: Indeed.

28  
29 THE COMMISSIONER: I should just make an observation that  
30 was going through my head at the time, too, and you can say  
31 what you want - I appreciate your submission on that.  
32 There's no doubt that Dr Budowle and Ms Veth, at least  
33 Dr Budowle, said that things can be missed when you're  
34 going through a report like that, and they both said they  
35 may have missed issues.

36  
37 This, though, is I think - I'm not sure - I think that  
38 the focus of that is this may not be one of those issues.  
39 I think that the point is - I think the discussion is that,  
40 if the yield had been specifically raised as a specific  
41 aspect of it, counsel assisting said that she would have  
42 taken that further, because it pre-dates the - it precedes,  
43 I should say, the automation stage. There's agreement that  
44 the validation point was very carefully made, and was made  
45 and accepted.

46  
47 MR DIEHM: Yes. We've addressed this in our written

1 submissions.

2

3 THE COMMISSIONER: Yes, I will go back to your written  
4 submissions with some care and ensure that any discussion  
5 and findings that I make in that regard take in those  
6 written submissions and the matters that you have  
7 cross-referenced in that and the exact wording of them be  
8 taken into account.

9

10 MR DIEHM: Thank you, Commissioner.

11

12 THE COMMISSIONER: Does anybody else wish to say anything?

13

14 UNIDENTIFIED SPEAKER: Nothing further, Commissioner.

15

16 MR McLEAN-WILLIAMS: Nothing further, Commissioner.

17

18 MR MURDOCH: On behalf of the scientists, Commissioner,  
19 we're content to rely upon our written submissions.

20

21 THE COMMISSIONER: Yes. I have read them. I have read  
22 them all, thank you. I do congratulate you for doing them  
23 to the timeframe to the standard that they have been done.  
24 But I will have to synthesise all of them properly together  
25 with Counsel Assisting's submissions for the purpose of my  
26 report.

27

28 If there is nothing else that anyone wants to say or  
29 do about this Inquiry, it sounds to me that the appropriate  
30 time is to, as I would say in another place, reserve my  
31 decision. I would like to thank also all those involved in  
32 the recording, in particular jumping up and helping us at  
33 the right time. It's very much appreciated.

34

35 So I will adjourn. Sorry, I don't adjourn.  
36 I conclude the oral and submission part of the Inquiry.  
37 The rest of it is just the backroom for me until the report  
38 comes out, and I think you're all aware of the date. Thank  
39 you.

40

41 **AT 12.44PM THE COMMISSION OF INQUIRY WAS ADJOURNED**  
42 **ACCORDINGLY**

43

44

45

46

47

	332:5, 332:18, 332:21, 332:23, 332:34, 332:36, 333:8, 333:22, 333:31, 333:46, 334:25, 334:30, 334:37, 334:45, 335:1, 335:2, 337:12, 337:22, 337:24, 337:35, 338:5, 338:20, 342:5, 342:7, 342:26, 342:37, 343:11, 344:6, 347:5, 347:11, 349:8, 350:8, 350:11, 350:13, 350:22, 350:26, 350:29, 350:44, 351:4, 351:16, 351:25, 352:34, 352:44, 353:4, 353:12, 353:20, 353:23, 353:27, 353:43, 354:28, 354:31, 355:1, 355:20, 355:29, 358:44, 365:2, 365:6, 365:15, 365:18, 365:45, 368:26, 368:47, 369:2, 369:14, 369:15, 369:21, 369:23, 369:30, 370:7, 370:15, 370:21, 370:25, 371:2, 371:14, 371:25, 371:46, 374:14, 377:20	<b>2005</b> [3] - 335:8, 335:44, 338:26 <b>2006</b> [1] - 335:21 <b>2007</b> [12] - 330:27, 332:7, 336:37, 336:38, 339:2, 339:40, 343:9, 343:13, 358:34, 371:16, 371:19, 372:17 <b>2008</b> [11] - 334:33, 335:32, 339:43, 342:28, 344:9, 344:25, 347:39, 348:17, 348:32, 352:39, 371:16 <b>2009</b> [11] - 334:34, 335:21, 336:33, 344:25, 344:36, 345:7, 345:19, 345:41, 353:13, 368:11 <b>2010</b> [1] - 335:44 <b>2011</b> [1] - 346:14 <b>2014</b> [1] - 335:8 <b>2016</b> [2] - 330:27, 345:41 <b>2019</b> [1] - 334:36 <b>2022</b> [12] - 333:13, 337:1, 347:7, 347:24, 347:25, 347:26, 347:35, 348:23, 348:43, 361:25, 377:7 <b>2023</b> [9] - 329:25, 336:26, 351:24, 356:7, 356:27, 363:12, 364:9, 364:41, 364:47 <b>21</b> [4] - 344:2, 344:6, 344:10, 368:34 <b>22</b> [2] - 344:6, 344:11 <b>222</b> [1] - 360:6 <b>223</b> [1] - 360:6 <b>23</b> [1] - 364:22 <b>24</b> [2] - 331:10, 347:26 <b>25</b> [2] - 340:42, 361:11 <b>27</b> [2] - 361:46, 363:12 <b>28</b> [1] - 344:27 <b>29</b> [1] - 368:34	<b>35</b> [1] - 340:19 <b>363</b> [1] - 329:22 <b>37</b> [6] - 331:21, 340:21, 340:23, 340:33, 366:38, 367:5	366:14, 376:23 <b>abreast</b> [1] - 358:1 <b>absolutely</b> [1] - 376:43 <b>abstract</b> [4] - 332:28, 342:10, 342:38, 342:39 <b>AC</b> [1] - 329:29 <b>accept</b> [2] - 351:39, 371:38 <b>acceptable</b> [1] - 340:34 <b>accepted</b> [16] - 330:12, 350:31, 351:37, 352:1, 352:8, 352:9, 354:24, 358:2, 369:26, 369:47, 371:1, 371:9, 371:23, 371:45, 377:13, 378:45 <b>accepts</b> [1] - 350:20 <b>access</b> [1] - 375:42 <b>accompanied</b> [1] - 365:22 <b>accompanying</b> [1] - 334:27 <b>accomplish</b> [2] - 360:40, 372:24 <b>accordance</b> [3] - 345:38, 352:31, 365:4 <b>ACCORDINGLY</b> [1] - 379:42 <b>account</b> [3] - 374:33, 374:34, 379:8 <b>accountability</b> " [1] - 338:47 <b>accountable</b> [1] - 333:3 <b>accurate</b> [1] - 357:34 <b>accurately</b> [1] - 352:15 <b>achieve</b> [1] - 363:3 <b>achieved</b> [3] - 342:19, 368:14, 372:11 <b>achieving</b> [1] - 364:29 <b>acknowledged</b> [5] - 341:39, 342:31, 358:25, 369:22, 371:27 <b>acknowledgments</b> [1] - 365:29 <b>Acting</b> [1] - 335:41 <b>actions</b> [3] - 356:35, 362:45, 365:39 <b>activity</b> [1] - 367:8 <b>actual</b> [2] - 342:30, 377:41 <b>adamant</b> [1] - 346:38
<b>'05</b> [1] - 338:25 <b>'06</b> [2] - 334:33, 338:26 <b>'07</b> [7] - 336:27, 338:5, 339:20, 342:30, 343:22, 343:23, 368:34 <b>'08</b> [5] - 336:27, 343:41, 344:27, 368:3 <b>'09</b> [3] - 343:45, 344:1, 368:7 <b>'16</b> [2] - 344:2, 368:34 <b>'22</b> [5] - 337:15, 348:28, 354:14, 369:22, 370:21 <b>'comparable'</b> [1] - 342:11				
<b>0</b>				
<b>08"</b> [1] - 349:40				
<b>1</b>				
<b>1</b> [3] - 336:31, 342:40, 375:36 <b>1,868</b> [1] - 331:13 <b>1,902</b> [1] - 331:14 <b>10</b> [3] - 342:44, 348:23, 354:31 <b>10.30</b> [1] - 349:35 <b>100</b> [4] - 340:42, 342:22, 345:13, 368:15 <b>105</b> [11] - 334:2, 334:4, 364:44, 365:4, 371:43, 372:16, 373:4, 373:8, 373:14, 373:20, 373:35 <b>11</b> [10] - 339:40, 339:43, 339:44, 339:47, 342:1, 343:41, 349:40, 354:31, 360:5, 376:45 <b>11(b)</b> [1] - 376:47 <b>11.00am</b> [1] - 329:25 <b>112</b> [1] - 331:15 <b>12</b> [5] - 338:33, 343:45, 348:47, 354:31, 364:46 <b>12,148</b> [1] - 331:12 <b>12.44PM</b> [1] - 379:41 <b>123</b> [1] - 359:27 <b>13</b> [83] - 329:15, 330:15, 332:1,	<b>148</b> [1] - 349:43 <b>15</b> [1] - 355:13 <b>16</b> [7] - 343:23, 346:16, 346:17, 347:35, 356:6, 364:41, 365:18 <b>17</b> [1] - 348:43 <b>18</b> [2] - 343:45, 349:7			
	<b>2</b>			
	<b>2</b> [1] - 336:36 <b>20</b> [16] - 333:13, 337:1, 337:15, 343:47, 347:6, 349:18, 349:35, 350:14, 350:20, 350:41, 351:5, 352:35, 354:14, 355:14, 369:21, 370:21 <b>2003</b> [1] - 334:36			
		<b>3</b>		
		<b>3</b> [1] - 329:25 <b>3,500</b> [1] - 331:22 <b>30</b> [3] - 336:7, 337:25, 348:22 <b>300</b> [1] - 344:44 <b>31</b> [1] - 347:25 <b>32</b> [2] - 351:6, 360:6		
			<b>4</b>	
		<b>4</b> [1] - 364:22 <b>40</b> [1] - 329:22		
			<b>5</b>	
		<b>5</b> [3] - 333:15, 349:38, 364:22 <b>5.1</b> [1] - 349:38 <b>50</b> [1] - 340:39 <b>500</b> [1] - 344:43 <b>5th</b> [1] - 330:46		
			<b>6</b>	
		<b>6</b> [3] - 343:39, 360:7, 364:22 <b>6,675</b> [1] - 331:15 <b>6.4.5</b> [1] - 338:29 <b>603</b> [1] - 331:14 <b>65</b> [1] - 340:18		
			<b>7</b>	
		<b>7</b> [1] - 336:26 <b>70</b> [10] - 336:32, 346:14, 346:15, 346:20, 346:28, 346:38, 347:1, 358:14, 376:46 <b>70(a)</b> [1] - 377:1		
			<b>8</b>	
		<b>8</b> [1] - 338:39		
			<b>9</b>	
		<b>9</b> [7] - 339:10, 339:19, 339:26, 339:42, 341:47, 343:22, 354:31 <b>9,000</b> [1] - 349:43 <b>96</b> [1] - 341:32 <b>988</b> [1] - 331:15		
			<b>A</b>	
		<b>ability</b> [3] - 339:14, 357:25, 369:8 <b>able</b> [7] - 342:18, 345:11, 360:40, 363:16, 365:43,		

<p><b>add</b> [1] - 376:17  <b>added</b> [1] - 342:41  <b>addition</b> [1] - 357:39  <b>additional</b> [4] - 333:8, 340:46, 341:15, 376:14  <b>address</b> [10] - 330:6, 332:17, 338:11, 338:23, 359:26, 361:31, 362:43, 364:33, 369:21, 371:13  <b>addressed</b> [16] - 336:9, 337:26, 338:19, 339:30, 339:33, 343:38, 350:39, 354:14, 355:36, 360:6, 364:18, 368:33, 370:19, 370:20, 376:40, 378:47  <b>addresses</b> [1] - 355:39  <b>addressing</b> [1] - 358:21  <b>adde</b> [1] - 331:36  <b>adequacy</b> [1] - 349:12  <b>adequate</b> [1] - 364:15  <b>adequately</b> [3] - 333:32, 333:35, 333:37  <b>adherence</b> [1] - 366:27  <b>adjourn</b> [2] - 379:35  <b>ADJOURNED</b> [1] - 379:41  <b>adjunct</b> [2] - 377:6, 377:11  <b>adjustments</b> [1] - 335:36  <b>administrative</b> [1] - 363:21  <b>adopted</b> [3] - 339:22, 341:30, 359:9  <b>adopting</b> [3] - 359:14, 359:15, 366:13  <b>adverse</b> [1] - 356:2  <b>advice</b> [1] - 361:33  <b>advise</b> [1] - 348:4  <b>advised</b> [1] - 348:42  <b>adviser</b> [2] - 337:18, 363:15  <b>advisory</b> [10] - 334:9, 336:13, 355:45, 356:10, 356:11, 356:15, 356:16, 356:18, 356:19, 356:20  <b>advocate</b> [1] - 336:35  <b>advocating</b> [1] -</p>	<p>371:18  <b>affected</b> [4] - 348:1, 358:43, 362:44, 365:3  <b>affirms</b> [1] - 336:17  <b>agencies</b> [1] - 331:1  <b>agenda</b> [1] - 336:21  <b>agitate</b> [1] - 334:14  <b>ago</b> [4] - 352:41, 359:45, 364:38, 365:18  <b>agreed</b> [6] - 340:6, 342:27, 358:30, 358:32, 359:5, 360:45  <b>agreement</b> [1] - 378:43  <b>ahead</b> [1] - 367:44  <b>aided</b> [1] - 365:26  <b>albeit</b> [1] - 367:44  <b>Alicia</b> [1] - 362:3  <b>alive</b> [1] - 336:17  <b>alleged</b> [1] - 369:20  <b>allocated</b> [1] - 331:23  <b>allow</b> [2] - 364:16, 367:35  <b>allowed</b> [2] - 340:45, 351:17  <b>alongside</b> [1] - 336:14  <b>Amanda</b> [3] - 337:18, 338:13, 363:11  <b>amended</b> [2] - 348:11, 348:46  <b>amending</b> [1] - 336:42  <b>amount</b> [2] - 340:41, 360:46  <b>analysed</b> [2] - 352:39, 353:9  <b>analysis</b> [6] - 330:14, 332:38, 356:41, 356:42, 357:35  <b>Analysis</b> [1] - 363:13  <b>analytical</b> [1] - 334:35  <b>Andrew</b> [1] - 329:34  <b>Angelina</b> [1] - 362:4  <b>Annabelle</b> [1] - 329:29  <b>annexed</b> [1] - 362:1  <b>annexes</b> [1] - 337:20  <b>annexing</b> [1] - 337:40  <b>announced</b> [1] - 330:46  <b>answer</b> [2] - 359:42, 360:11  <b>answered</b> [1] - 352:36  <b>answering</b> [2] - 333:28, 371:7  <b>apparent</b> [12] - 333:34, 333:36, 341:40, 342:46, 343:35, 350:32,</p>	<p>364:32, 366:18, 366:19, 369:25, 369:26, 370:20  <b>appear</b> [1] - 359:20  <b>appeared</b> [1] - 345:33  <b>applied</b> [2] - 340:25, 374:35  <b>appointed</b> [1] - 356:6  <b>appointment</b> [2] - 336:24, 372:4  <b>appreciate</b> [6] - 330:23, 330:33, 354:44, 375:22, 376:7, 378:31  <b>appreciated</b> [3] - 331:23, 378:2, 379:33  <b>appreciation</b> [2] - 346:11, 376:1  <b>approach</b> [2] - 364:28, 369:6  <b>appropriate</b> [16] - 335:36, 336:15, 348:10, 351:20, 357:18, 359:17, 360:42, 362:12, 364:29, 365:29, 365:40, 367:47, 368:9, 368:45, 371:7, 379:29  <b>appropriately</b> [1] - 354:14  <b>approval</b> [1] - 357:10  <b>April</b> [3] - 344:36, 345:7, 368:11  <b>arise</b> [5] - 330:38, 336:18, 350:19, 355:26, 364:31  <b>arisen</b> [3] - 336:20, 346:42, 362:22  <b>arises</b> [1] - 346:47  <b>arising</b> [4] - 358:3, 365:32, 366:20, 370:21  <b>arose</b> [6] - 346:14, 346:26, 348:8, 348:32, 353:17, 368:3  <b>arrangement</b> [1] - 344:9  <b>arrival</b> [1] - 362:32  <b>articles</b> [1] - 337:21  <b>aspect</b> [5] - 334:20, 355:43, 368:24, 377:26, 378:41  <b>aspects</b> [1] - 356:17  <b>assay</b> [1] - 345:34  <b>assert</b> [1] - 333:45  <b>assertion</b> [2] - 372:31, 372:43</p>	<p><b>assertions</b> [1] - 355:39  <b>assess</b> [1] - 361:27  <b>assessed</b> [1] - 339:13  <b>assessment</b> [2] - 347:46, 364:13  <b>assist</b> [1] - 349:13  <b>assistance</b> [1] - 365:42  <b>Assisting</b> [3] - 329:32, 329:34, 329:35  <b>assisting</b> [36] - 331:34, 336:40, 347:16, 347:28, 347:36, 348:20, 348:26, 348:29, 349:3, 349:4, 349:16, 349:22, 349:31, 353:16, 353:19, 353:22, 353:32, 353:33, 354:25, 354:26, 355:2, 355:3, 369:31, 369:42, 370:1, 370:2, 370:7, 370:16, 370:17, 375:21, 375:24, 375:46, 377:2, 377:11, 378:41  <b>Assisting's</b> [1] - 379:25  <b>assisting's</b> [3] - 354:9, 369:33, 376:15  <b>associated</b> [3] - 364:17, 371:14, 374:24  <b>assumed</b> [1] - 375:34  <b>assumptions</b> [1] - 346:1  <b>assurance</b> [1] - 346:8  <b>AT</b> [1] - 379:41  <b>attempt</b> [1] - 344:18  <b>attend</b> [2] - 335:15, 361:24  <b>attended</b> [2] - 338:16, 368:32  <b>attention</b> [12] - 331:32, 331:39, 333:23, 333:27, 333:32, 333:38, 338:31, 346:24, 363:10, 370:17, 372:39, 376:41  <b>Attorney</b> [1] - 331:4  <b>Attorney-General</b> [1] - 331:4  <b>audit</b> [1] - 363:2  <b>August</b> [5] - 339:42, 342:28, 343:45, 344:1, 351:24</p>	<p><b>Australia</b> [4] - 332:12, 335:6, 335:11, 347:30  <b>Australian</b> [1] - 371:30  <b>authoritative</b> [1] - 361:33  <b>authors</b> [3] - 334:24, 342:30, 346:33  <b>automate</b> [1] - 339:15  <b>automated</b> [62] - 330:25, 332:7, 332:9, 332:24, 332:28, 332:30, 333:2, 333:34, 333:38, 334:41, 336:33, 337:5, 338:4, 338:8, 338:30, 339:3, 339:26, 340:13, 340:32, 340:39, 342:3, 342:16, 342:18, 342:20, 342:29, 343:8, 343:14, 343:33, 343:35, 343:42, 343:47, 344:6, 344:20, 344:25, 344:29, 344:36, 344:37, 345:18, 345:22, 346:23, 346:29, 346:41, 350:42, 350:43, 351:7, 353:23, 353:26, 353:29, 354:13, 366:15, 366:20, 368:4, 368:14, 368:17, 369:11, 370:8, 370:23, 370:24, 370:30, 371:2, 371:14, 377:3  <b>automatic</b> [1] - 368:13  <b>automation</b> [13] - 334:32, 334:37, 334:47, 338:39, 339:6, 339:38, 365:17, 365:21, 365:32, 367:39, 368:24, 368:33, 378:43  <b>available</b> [2] - 330:29, 370:13  <b>avoid</b> [1] - 340:27  <b>aware</b> [8] - 332:11, 335:47, 346:23, 355:10, 363:20, 364:40, 366:2, 379:38  <b>awareness</b> [1] - 366:4</p>
--	---	--	--	---

<b>B</b>	<p><b>bind</b> [1] - 366:36</p> <p><b>binding</b> [2] - 345:4, 366:33</p> <p><b>biological</b> [1] - 359:7</p> <p><b>biology</b> [3] - 356:20, 362:1, 364:46</p> <p><b>Blackburn</b> [1] - 355:16</p> <p><b>blood</b> [4] - 336:3, 342:21, 342:23, 343:16</p> <p><b>board</b> [16] - 334:9, 334:15, 336:13, 336:16, 336:18, 336:24, 336:28, 355:45, 356:10, 356:14, 356:15, 356:16, 375:4, 375:5, 375:6, 375:11</p> <p><b>board's</b> [1] - 336:25</p> <p><b>body</b> [1] - 372:5</p> <p><b>bound</b> [2] - 340:44, 366:41</p> <p><b>bounds</b> [1] - 330:24</p> <p><b>box</b> [1] - 360:18</p> <p><b>break</b> [2] - 376:19, 376:21</p> <p><b>Brett</b> [1] - 337:32</p> <p><b>brief</b> [6] - 330:11, 348:41, 353:13, 370:45, 373:41, 376:33</p> <p><b>briefed</b> [2] - 350:7, 354:17</p> <p><b>briefly</b> [2] - 344:5, 365:12</p> <p><b>bring</b> [1] - 341:24</p> <p><b>Brisbane</b> [2] - 329:21, 329:22</p> <p><b>broad</b> [7] - 356:24, 365:44, 373:15, 373:26, 373:30, 373:44</p> <p><b>broaden</b> [1] - 340:24</p> <p><b>broader</b> [2] - 335:38, 363:5</p> <p><b>broadly</b> [1] - 374:31</p> <p><b>broken</b> [1] - 331:13</p> <p><b>brought</b> [2] - 331:32, 373:16</p> <p><b>Budowle</b> [13] - 338:16, 345:33, 346:9, 355:13, 355:15, 358:7, 358:30, 360:19, 360:22, 369:4, 372:21, 378:32, 378:33</p> <p><b>budowle</b> [1] - 355:21</p> <p><b>buffer</b> [3] - 340:11,</p>	<p>340:12, 366:39</p> <p><b>burden</b> [1] - 374:42</p>	<b>C</b>	<p><b>Cabinet</b> [1] - 331:5</p> <p><b>candidates</b> [1] - 336:15</p> <p><b>candidly</b> [1] - 371:23</p> <p><b>cannot</b> [2] - 350:40, 370:22</p> <p><b>capabilities</b> [1] - 333:5</p> <p><b>capacity</b> [3] - 347:36, 350:10, 356:3</p> <p><b>care</b> [1] - 379:4</p> <p><b>careful</b> [1] - 370:39</p> <p><b>carefully</b> [1] - 378:44</p> <p><b>carried</b> [1] - 356:47</p> <p><b>case</b> [8] - 341:41, 346:5, 348:5, 348:12, 358:15, 368:31, 371:38, 377:39</p> <p><b>cases</b> [5] - 336:27, 358:29, 362:44, 371:16, 372:15</p> <p><b>casework</b> [2] - 364:18, 365:3</p> <p><b>castigated</b> [1] - 330:4</p> <p><b>catastrophic</b> [1] - 332:45</p> <p><b>categories</b> [1] - 331:13</p> <p><b>Caunt</b> [1] - 362:3</p> <p><b>causing</b> [1] - 366:22</p> <p><b>cease</b> [1] - 343:42</p> <p><b>ceased</b> [2] - 330:27, 368:35</p> <p><b>Cecelia</b> [1] - 334:24</p> <p><b>cells</b> [1] - 366:38</p> <p><b>Celsius</b> [3] - 340:18, 340:19, 340:33</p> <p><b>cent</b> [2] - 345:13, 368:15</p> <p><b>Centre</b> [1] - 332:12</p> <p><b>CEO</b> [9] - 337:19, 356:4, 356:11, 357:26, 357:32, 359:46, 361:7, 361:10, 372:3</p> <p><b>CEO's</b> [2] - 374:24, 374:27</p> <p><b>certain</b> [1] - 372:42</p> <p><b>certainly</b> [3] - 341:19, 367:19, 370:16</p> <p><b>certainty</b> [2] - 366:21, 378:5</p> <p><b>cetera</b> [1] - 338:43</p> <p><b>CFS</b> [3] - 340:14,</p>	<p>340:32, 340:39</p> <p><b>chairs</b> [3] - 336:13, 336:17, 356:14</p> <p><b>challenge</b> [3] - 346:5, 360:36, 361:35</p> <p><b>change</b> [12] - 336:7, 341:28, 353:23, 353:24, 356:34, 358:16, 359:41, 361:3, 377:2, 377:3, 378:7, 378:8</p> <p><b>changed</b> [2] - 352:12, 353:11</p> <p><b>changes</b> [8] - 339:46, 344:42, 359:29, 359:33, 359:34, 362:25, 362:33, 372:10</p> <p><b>channels</b> [1] - 364:36</p> <p><b>check</b> [2] - 336:20, 341:10</p> <p><b>checks</b> [1] - 335:36</p> <p><b>Chelex</b> [6] - 339:5, 339:13, 339:16, 344:27, 345:14, 346:3</p> <p><b>chemistry</b> [1] - 357:40</p> <p><b>Chief</b> [1] - 338:40</p> <p><b>chink</b> [1] - 363:18</p> <p><b>choice</b> [1] - 352:25</p> <p><b>chronology</b> [2] - 338:24, 341:47</p> <p><b>circumstances</b> [4] - 332:40, 336:46, 345:36, 368:9</p> <p><b>claimed</b> [1] - 333:36</p> <p><b>clandestine</b> [1] - 356:41</p> <p><b>clarify</b> [2] - 366:46, 378:18</p> <p><b>clarifying</b> [1] - 373:36</p> <p><b>clarity</b> [2] - 365:22, 377:25</p> <p><b>class</b> [2] - 361:44, 363:8</p> <p><b>cleaning</b> [1] - 353:41</p> <p><b>clear</b> [13] - 331:19, 334:10, 334:44, 338:30, 345:7, 348:5, 348:30, 361:22, 366:1, 367:46, 368:24, 373:38, 374:14</p> <p><b>clearer</b> [1] - 352:2</p> <p><b>clearer"</b> [1] - 371:10</p> <p><b>clearing</b> [1] - 332:44</p> <p><b>clearly</b> [2] - 342:16, 352:15</p> <p><b>client</b> [4] - 376:42, 376:46, 377:1, 378:7</p>	<p><b>clinical</b> [2] - 357:23, 369:17</p> <p><b>close</b> [3] - 345:13, 363:21, 368:15</p> <p><b>closely</b> [1] - 364:24</p> <p><b>co</b> [3] - 336:13, 336:17, 356:14</p> <p><b>co-chairs</b> [3] - 336:13, 336:17, 356:14</p> <p><b>cognisant</b> [1] - 336:17</p> <p><b>COI</b> [1] - 362:38</p> <p><b>collect</b> [1] - 336:8</p> <p><b>collectively</b> [1] - 337:42</p> <p><b>colloquial</b> [1] - 350:26</p> <p><b>coming</b> [2] - 367:36, 376:34</p> <p><b>commenced</b> [9] - 330:26, 343:47, 344:26, 351:31, 351:34, 357:35, 357:41, 368:5, 371:39</p> <p><b>commencement</b> [3] - 330:45, 357:32, 361:21</p> <p><b>commencing</b> [2] - 338:25, 356:6</p> <p><b>commensurate</b> [2] - 360:23, 372:22</p> <p><b>comment</b> [3] - 331:29, 351:6, 373:43</p> <p><b>commentary</b> [4] - 351:18, 353:3, 360:15, 360:18</p> <p><b>commented</b> [2] - 353:6, 361:41</p> <p><b>comments</b> [2] - 337:22, 351:45</p> <p><b>COMMISSION</b> [1] - 379:41</p> <p><b>Commission</b> [24] - 329:14, 331:24, 334:17, 335:42, 346:47, 347:32, 355:7, 355:12, 356:31, 356:33, 360:43, 361:8, 361:11, 361:25, 365:44, 366:7, 367:46, 368:23, 368:31, 370:5, 370:46, 371:5, 371:37, 373:2</p> <p><b>commissioner</b> [2] - 374:3, 376:33</p> <p><b>Commissioner</b> [13] - 329:29, 331:17, 338:31, 362:15, 363:20, 374:25,</p>
----------	--	---	----------	--	--	--

<p>375:13, 376:28, 377:40, 379:10, 379:14, 379:16, 379:18</p> <p><b>COMMISSIONER</b> <sup>[60]</sup> - 330:1, 331:19, 331:28, 338:46, 340:21, 341:1, 341:9, 341:17, 341:23, 352:28, 355:33, 358:7, 358:11, 358:37, 358:42, 359:3, 359:11, 359:23, 359:38, 360:2, 360:9, 360:28, 363:26, 363:30, 363:35, 363:43, 364:1, 366:46, 367:4, 367:22, 367:28, 368:37, 371:21, 372:28, 372:37, 372:42, 373:24, 373:43, 374:9, 374:30, 374:47, 375:4, 375:11, 375:16, 376:21, 376:25, 376:31, 376:36, 377:17, 377:24, 377:30, 377:36, 377:45, 378:11, 378:15, 378:24, 378:29, 379:3, 379:12, 379:21</p> <p><b>common</b> <sup>[1]</sup> - 377:42</p> <p><b>communicate</b> <sup>[1]</sup> - 349:30</p> <p><b>communication</b> <sup>[2]</sup> - 357:24, 377:15</p> <p><b>communications</b> <sup>[6]</sup> - 349:16, 349:22, 349:24, 349:32, 353:16, 377:43</p> <p><b>company</b> <sup>[1]</sup> - 335:7</p> <p><b>comparable</b> <sup>[4]</sup> - 332:29, 342:10, 342:23, 346:39</p> <p><b>compared</b> <sup>[4]</sup> - 339:12, 346:29, 346:32, 376:4</p> <p><b>complete</b> <sup>[3]</sup> - 347:31, 348:45, 367:31</p> <p><b>completed</b> <sup>[1]</sup> - 330:34</p> <p><b>compliance</b> <sup>[2]</sup> - 356:9, 374:28</p> <p><b>component</b> <sup>[1]</sup> - 345:26</p> <p><b>components</b> <sup>[1]</sup> -</p>	<p>344:17</p> <p><b>comprise</b> <sup>[1]</sup> - 337:33</p> <p><b>comprised</b> <sup>[2]</sup> - 331:22, 338:3</p> <p><b>comprises</b> <sup>[1]</sup> - 356:23</p> <p><b>compromise</b> <sup>[1]</sup> - 332:42</p> <p><b>concede</b> <sup>[1]</sup> - 351:46</p> <p><b>conceded</b> <sup>[1]</sup> - 358:46</p> <p><b>concentrating</b> <sup>[1]</sup> - 367:13</p> <p><b>concentration</b> <sup>[3]</sup> - 341:2, 341:13, 341:15</p> <p><b>concept</b> <sup>[2]</sup> - 358:13, 366:8</p> <p><b>concern</b> <sup>[4]</sup> - 335:38, 358:24, 367:6, 373:4</p> <p><b>concerned</b> <sup>[8]</sup> - 330:25, 337:3, 338:29, 339:27, 341:5, 343:20, 346:10, 367:39</p> <p><b>concerning</b> <sup>[11]</sup> - 330:18, 332:21, 333:8, 336:46, 337:21, 347:5, 356:3, 361:6, 368:46, 372:7, 376:41</p> <p><b>concerns</b> <sup>[16]</sup> - 329:15, 333:9, 334:9, 334:14, 343:24, 349:1, 349:39, 355:44, 358:21, 362:11, 363:2, 364:35, 367:41, 367:42, 367:43, 377:47</p> <p><b>concession</b> <sup>[1]</sup> - 352:5</p> <p><b>conclude</b> <sup>[4]</sup> - 366:7, 370:5, 370:46, 379:36</p> <p><b>concluded</b> <sup>[5]</sup> - 339:47, 345:10, 345:33, 345:37, 346:33</p> <p><b>conclusion</b> <sup>[7]</sup> - 333:24, 342:9, 345:15, 352:29, 355:8, 370:13, 373:28</p> <p><b>conclusions</b> <sup>[10]</sup> - 330:20, 346:45, 347:6, 351:26, 358:17, 365:11, 368:12, 368:23, 368:45, 372:6</p>	<p><b>conditions</b> <sup>[1]</sup> - 340:18</p> <p><b>conduct</b> <sup>[2]</sup> - 368:47, 369:16</p> <p><b>conducted</b> <sup>[5]</sup> - 330:34, 339:4, 346:16, 351:24, 356:39</p> <p><b>conducting</b> <sup>[1]</sup> - 357:16</p> <p><b>confer</b> <sup>[1]</sup> - 376:19</p> <p><b>confidence</b> <sup>[4]</sup> - 334:5, 364:11, 371:47, 372:25</p> <p><b>confident</b> <sup>[3]</sup> - 358:27, 362:9, 362:47</p> <p><b>confined</b> <sup>[3]</sup> - 330:35, 330:44, 337:15</p> <p><b>confirm</b> <sup>[2]</sup> - 337:14, 369:41</p> <p><b>confirmed</b> <sup>[2]</sup> - 334:13, 342:26</p> <p><b>confirms</b> <sup>[2]</sup> - 336:24, 343:5</p> <p><b>conflicts</b> <sup>[5]</sup> - 334:10, 334:17, 336:18, 336:19, 336:20</p> <p><b>congratulate</b> <sup>[1]</sup> - 379:22</p> <p><b>connection</b> <sup>[3]</sup> - 332:38, 338:38, 369:15</p> <p><b>conscious</b> <sup>[1]</sup> - 370:39</p> <p><b>consequence</b> <sup>[1]</sup> - 370:10</p> <p><b>consequences</b> <sup>[1]</sup> - 332:46</p> <p><b>consequently</b> <sup>[1]</sup> - 345:30</p> <p><b>consider</b> <sup>[6]</sup> - 332:16, 345:16, 363:40, 373:2, 373:15, 374:26</p> <p><b>considerable</b> <sup>[1]</sup> - 339:31</p> <p><b>considerably</b> <sup>[1]</sup> - 342:17</p> <p><b>consideration</b> <sup>[9]</sup> - 330:37, 330:38, 334:4, 334:18, 337:15, 354:22, 355:47, 369:45, 373:20</p> <p><b>considerations</b> <sup>[1]</sup> - 377:14</p> <p><b>considered</b> <sup>[7]</sup> - 333:43, 336:28, 345:8, 351:15, 365:39, 368:8,</p>	<p>368:16</p> <p><b>considering</b> <sup>[1]</sup> - 359:16</p> <p><b>considers</b> <sup>[1]</sup> - 373:13</p> <p><b>consistent</b> <sup>[13]</sup> - 348:7, 348:10, 348:12, 348:34, 351:3, 351:7, 351:12, 351:21, 351:43, 366:1, 370:31, 370:34, 371:6</p> <p><b>consistently</b> <sup>[1]</sup> - 361:37</p> <p><b>constitution</b> <sup>[1]</sup> - 356:23</p> <p><b>construction</b> <sup>[1]</sup> - 374:4</p> <p><b>construe</b> <sup>[2]</sup> - 373:26, 373:29</p> <p><b>construed</b> <sup>[2]</sup> - 373:31, 373:46</p> <p><b>consumables</b> <sup>[4]</sup> - 341:29, 341:35, 347:40, 347:47</p> <p><b>contact</b> <sup>[2]</sup> - 335:20, 335:44</p> <p><b>contained</b> <sup>[4]</sup> - 333:25, 343:12, 348:46, 349:12</p> <p><b>containing</b> <sup>[1]</sup> - 352:45</p> <p><b>contamination</b> <sup>[28]</sup> - 335:33, 335:35, 337:3, 337:16, 343:40, 343:43, 343:46, 344:30, 344:34, 344:42, 344:45, 347:41, 348:17, 348:18, 348:31, 349:2, 349:39, 351:20, 351:47, 352:38, 352:40, 352:42, 352:47, 354:11, 354:12, 368:3, 371:9</p> <p><b>content</b> <sup>[2]</sup> - 347:17, 379:19</p> <p><b>context</b> <sup>[6]</sup> - 346:13, 352:37, 355:20, 358:13, 359:12, 373:35</p> <p><b>continual</b> <sup>[1]</sup> - 365:2</p> <p><b>continue</b> <sup>[2]</sup> - 343:25, 361:27</p> <p><b>continued</b> <sup>[1]</sup> - 344:1</p> <p><b>continuous</b> <sup>[2]</sup> - 361:39, 369:9</p> <p><b>contradictor</b> <sup>[1]</sup> - 372:46</p>	<p><b>contrary</b> <sup>[2]</sup> - 368:38, 372:31</p> <p><b>contribute</b> <sup>[1]</sup> - 334:45</p> <p><b>contributed</b> <sup>[1]</sup> - 342:32</p> <p><b>control</b> <sup>[3]</sup> - 345:25, 346:8, 369:7</p> <p><b>controversial</b> <sup>[2]</sup> - 341:38, 359:23</p> <p><b>convenient</b> <sup>[2]</sup> - 338:23, 338:26</p> <p><b>conversation</b> <sup>[1]</sup> - 337:1</p> <p><b>convey</b> <sup>[1]</sup> - 371:1</p> <p><b>conveyed</b> <sup>[6]</sup> - 331:43, 355:4, 361:37, 369:42, 370:10, 378:1</p> <p><b>convictions</b> <sup>[1]</sup> - 332:42</p> <p><b>coordinator</b> <sup>[1]</sup> - 364:46</p> <p><b>copy</b> <sup>[2]</sup> - 343:5, 345:12</p> <p><b>correct</b> <sup>[1]</sup> - 355:18</p> <p><b>correctly</b> <sup>[1]</sup> - 367:28</p> <p><b>correspondence</b> <sup>[1]</sup> - 348:27</p> <p><b>corroborated</b> <sup>[1]</sup> - 350:1</p> <p><b>cotton</b> <sup>[1]</sup> - 342:21</p> <p><b>council</b> <sup>[1]</sup> - 354:9</p> <p><b>counsel</b> <sup>[37]</sup> - 336:40, 347:35, 348:20, 348:26, 348:29, 349:3, 349:16, 349:22, 349:31, 353:16, 353:19, 353:22, 353:32, 353:33, 354:24, 354:26, 355:2, 355:3, 369:31, 369:33, 369:42, 370:1, 370:2, 370:7, 370:16, 370:17, 375:21, 375:24, 375:28, 375:44, 375:46, 376:15, 377:2, 377:11, 378:41</p> <p><b>Counsel</b> <sup>[4]</sup> - 329:32, 329:34, 329:35, 379:25</p> <p><b>couple</b> <sup>[1]</sup> - 346:15</p> <p><b>course</b> <sup>[7]</sup> - 330:35, 336:31, 338:2, 338:28, 343:39, 347:12, 347:15</p> <p><b>Court</b> <sup>[3]</sup> - 329:21,</p>
--	---	---	---	--

<p>329:22, 336:13  <b>court</b> [1] - 352:17  <b>courts</b> [1] - 357:29  <b>cover</b> [2] - 350:45, 373:46  <b>covering</b> [1] - 374:32  <b>covers</b> [1] - 370:26  <b>crafting</b> [1] - 374:13  <b>create</b> [1] - 361:38  <b>created</b> [2] - 343:7, 349:15  <b>crime</b> [2] - 342:23, 343:15  <b>crimes</b> [1] - 332:42  <b>criminal</b> [2] - 332:39, 333:4  <b>critical</b> [3] - 345:3, 362:23, 366:33  <b>criticism</b> [1] - 376:43  <b>cross</b> [4] - 335:35, 344:45, 347:41, 379:7  <b>cross-contamination</b> [3] - 335:35, 344:45, 347:41  <b>cross-referenced</b> [1] - 379:7  <b>crucial</b> [2] - 330:23, 330:33  <b>cultural</b> [4] - 358:26, 361:1, 361:2, 365:5  <b>culture</b> [8] - 357:22, 357:23, 359:34, 359:41, 360:33, 361:38, 372:5, 372:10  <b>current</b> [15] - 339:13, 356:40, 357:18, 357:32, 357:33, 357:36, 361:15, 361:23, 362:2, 362:42, 364:13, 371:40, 372:34, 372:37, 372:40  <b>customer</b> [1] - 335:18  <b>customers</b> [2] - 335:9, 335:15  <b>customers'</b> [1] - 335:25  <b>customisation</b> [1] - 346:18</p>	<p>346:40, 353:8, 367:9, 370:41  <b>date</b> [16] - 336:20, 336:30, 336:36, 342:28, 344:38, 348:21, 359:14, 360:24, 360:28, 361:10, 371:21, 371:23, 372:9, 374:16, 379:38  <b>dated</b> [7] - 336:47, 339:20, 339:42, 347:25, 348:46, 361:46  <b>dates</b> [2] - 373:32, 378:42  <b>David</b> [1] - 335:41  <b>days</b> [2] - 349:9, 349:46  <b>deadline</b> [1] - 348:42  <b>deal</b> [6] - 330:20, 344:5, 347:4, 373:3, 375:38, 377:19  <b>dealing</b> [6] - 335:46, 347:20, 373:37, 373:43, 373:46, 377:32  <b>dealings</b> [2] - 336:45, 337:9  <b>deals</b> [1] - 351:37  <b>dealt</b> [3] - 344:31, 376:39, 376:46  <b>debate</b> [1] - 349:37  <b>decides</b> [1] - 363:38  <b>decision</b> [3] - 343:41, 367:43, 379:31  <b>decisions</b> [1] - 365:36  <b>deck</b> [9] - 344:8, 344:14, 344:17, 344:43, 345:1, 345:26, 346:17, 346:30, 368:19  <b>deep</b> [1] - 356:38  <b>deficiencies</b> [3] - 361:30, 365:30, 365:31  <b>definitely</b> [3] - 351:40, 353:46, 370:41  <b>degradation</b> [1] - 340:26  <b>degrees</b> [5] - 340:18, 340:19, 340:33, 366:38, 367:5  <b>deliberate</b> [1] - 369:15  <b>deliberately</b> [2] - 332:44, 333:40  <b>delve</b> [1] - 330:38  <b>demonstrate</b> [1] - 345:39  <b>Denmark</b> [2] - 348:22,</p>	<p>348:39  <b>Department</b> [2] - 331:3, 331:4  <b>depth</b> [1] - 356:39  <b>describe</b> [2] - 330:17, 332:6  <b>described</b> [5] - 343:8, 350:2, 357:26, 363:43, 369:1  <b>describes</b> [1] - 335:9  <b>design</b> [3] - 342:8, 353:2, 353:8  <b>designed</b> [1] - 345:34  <b>Desley</b> [1] - 335:5  <b>detail</b> [4] - 334:40, 354:39, 354:40, 355:37  <b>detailed</b> [3] - 351:18, 353:3, 357:17  <b>detailing</b> [1] - 356:28  <b>detectible</b> [1] - 342:21  <b>determine</b> [1] - 330:29  <b>develop</b> [3] - 357:46, 361:43, 363:7  <b>developed</b> [2] - 340:14, 344:10  <b>developing</b> [1] - 358:20  <b>development</b> [6] - 343:25, 357:6, 357:9, 357:16, 357:22, 365:46  <b>developments</b> [1] - 358:2  <b>device</b> [21] - 331:6, 332:7, 332:8, 332:25, 334:42, 335:7, 335:11, 335:13, 335:16, 335:22, 335:24, 335:39, 335:47, 339:24, 340:14, 341:33, 342:4, 343:14, 344:1, 344:8, 346:18  <b>devices</b> [1] - 341:32  <b>devoid</b> [1] - 341:4  <b>devote</b> [1] - 375:45  <b>Dick</b> [1] - 336:12  <b>dick</b> [2] - 336:14, 356:15  <b>Diehm</b> [1] - 377:32  <b>DIEHM</b> [12] - 376:33, 376:38, 377:22, 377:28, 377:34, 377:39, 378:5, 378:13, 378:18, 378:27, 378:47, 379:10  <b>difference</b> [5] - 337:4,</p>	<p>337:7, 353:26, 354:38  <b>differences</b> [2] - 362:11, 362:21  <b>different</b> [6] - 342:45, 344:39, 347:42, 358:17, 367:12, 374:7  <b>differently</b> [1] - 378:16  <b>difficult</b> [1] - 344:16  <b>difficulties</b> [1] - 365:30  <b>dilutions</b> [1] - 342:22  <b>diminishing</b> [1] - 365:37  <b>direct</b> [1] - 366:3  <b>directed</b> [2] - 368:6, 372:5  <b>direction</b> [3] - 357:39, 362:28, 364:11  <b>director</b> [2] - 347:29, 357:23  <b>disclosed</b> [4] - 350:45, 353:35, 370:26, 371:2  <b>discounted</b> [1] - 354:42  <b>discovered</b> [3] - 347:39, 347:45, 348:17  <b>discrete</b> [1] - 335:46  <b>discuss</b> [2] - 348:29, 362:11  <b>discussed</b> [4] - 348:19, 350:43, 369:30, 370:24  <b>discussing</b> [5] - 354:31, 354:33, 354:37, 354:41, 374:33  <b>discussion</b> [13] - 336:34, 353:22, 353:34, 353:38, 354:39, 357:27, 359:12, 359:13, 360:4, 369:32, 377:8, 378:39, 379:4  <b>discussions</b> [3] - 354:27, 362:21, 370:3  <b>dispute</b> [16] - 343:7, 346:26, 346:41, 346:47, 350:7, 350:12, 350:16, 350:25, 350:40, 360:13, 368:30, 368:40, 368:42, 370:22, 377:46, 378:6  <b>disputed</b> [1] - 353:34</p>	<p><b>disputing</b> [1] - 369:32  <b>dissolving</b> [1] - 340:28  <b>distributed</b> [1] - 343:3  <b>District</b> [1] - 336:12  <b>dive</b> [1] - 356:38  <b>diversity</b> [1] - 362:24  <b>division</b> [1] - 362:1  <b>DNA</b> [88] - 329:15, 330:26, 330:30, 332:9, 332:24, 332:26, 332:36, 332:38, 332:41, 333:2, 333:35, 336:3, 336:8, 337:2, 337:5, 338:4, 339:3, 339:5, 339:8, 339:17, 339:22, 339:33, 340:1, 340:12, 340:28, 340:39, 340:43, 340:44, 340:46, 341:4, 342:2, 342:19, 342:21, 343:15, 343:16, 343:17, 344:6, 344:28, 345:12, 345:14, 345:18, 345:24, 345:25, 345:27, 345:29, 345:47, 346:29, 346:31, 346:35, 346:40, 347:38, 347:40, 350:28, 350:45, 353:9, 353:14, 353:22, 354:11, 355:11, 355:14, 355:18, 356:40, 356:47, 357:1, 358:33, 358:35, 359:7, 361:26, 363:13, 366:8, 366:27, 366:28, 366:35, 366:37, 366:43, 367:8, 367:34, 367:40, 368:17, 369:23, 369:24, 369:30, 370:9, 370:11, 370:26, 372:18, 372:19  <b>DNA's</b> [1] - 345:4  <b>document</b> [17] - 331:32, 331:38, 331:41, 335:2, 342:27, 342:31, 342:34, 343:1, 343:7, 344:38, 346:43, 350:32, 352:16, 354:17,</p>
<b>D</b>				
<p><b>data</b> [15] - 332:23, 332:27, 333:25, 342:12, 342:14, 342:17, 343:11, 345:45, 346:3, 346:38, 346:39,</p>				



<p>369:25, 369:27, 370:8  <b>documentation</b> [2] - 357:18, 371:26  <b>documented</b> [2] - 346:34, 369:7  <b>documents</b> [26] - 330:47, 331:2, 331:11, 331:12, 331:16, 331:26, 331:31, 331:35, 331:36, 332:4, 333:21, 334:27, 334:29, 349:7, 349:15, 349:18, 349:19, 349:25, 349:29, 349:43, 350:4, 353:10, 365:44, 374:23  <b>done</b> [12] - 331:42, 334:47, 338:33, 338:36, 340:19, 340:23, 345:38, 347:16, 358:33, 364:34, 372:18, 379:23  <b>double</b> [5] - 340:38, 340:45, 341:13, 366:42, 367:33  <b>doubt</b> [1] - 378:32  <b>down</b> [3] - 331:13, 374:17, 377:24  <b>DPP</b> [2] - 357:29, 357:34  <b>Dr</b> [47] - 329:29, 332:20, 332:27, 332:33, 333:1, 333:7, 333:14, 333:26, 333:30, 333:44, 334:3, 334:8, 334:12, 337:32, 338:16, 338:17, 340:33, 342:7, 342:31, 343:1, 345:33, 346:9, 346:20, 346:27, 346:28, 346:33, 347:9, 355:13, 355:15, 355:21, 355:25, 355:33, 358:7, 358:30, 360:19, 360:20, 360:22, 360:45, 361:47, 367:6, 372:21, 378:1, 378:32, 378:33  <b>draft</b> [15] - 335:3, 342:26, 342:45, 343:8, 349:2, 349:8,</p>	<p>349:18, 349:31, 349:33, 350:29, 352:44, 353:39, 353:40, 371:17, 375:7  <b>drafting</b> [1] - 334:45  <b>drafts</b> [1] - 365:45  <b>draw</b> [8] - 331:39, 333:23, 333:27, 333:30, 333:37, 363:10, 375:23, 376:40  <b>drawn</b> [3] - 346:45, 372:6, 372:39  <b>drew</b> [2] - 338:31, 346:24  <b>drop</b> [2] - 357:26, 359:46  <b>drop-in</b> [2] - 357:26, 359:46  <b>droplets</b> [1] - 335:33  <b>dropped</b> [1] - 342:39  <b>drug</b> [1] - 356:41  <b>due</b> [5] - 334:46, 348:21, 353:28, 373:10  <b>during</b> [14] - 334:37, 335:32, 336:6, 336:31, 338:6, 338:28, 339:30, 343:38, 348:22, 351:26, 353:9, 353:38, 368:33, 369:18</p>	<p>341:13, 341:24, 366:42, 367:33, 367:35  <b>email</b> [1] - 343:29  <b>emails</b> [2] - 331:14, 337:25  <b>Emma</b> [1] - 362:3  <b>emotive</b> [2] - 352:17, 352:20  <b>emphasised</b> [2] - 346:9, 352:36  <b>empirical</b> [1] - 370:41  <b>employed</b> [3] - 334:35, 347:29, 363:14  <b>employee</b> [3] - 335:5, 363:13, 364:6  <b>employees</b> [1] - 372:35  <b>empowering</b> [1] - 361:43  <b>enabled</b> [1] - 365:6  <b>enables</b> [1] - 361:33  <b>encased</b> [1] - 340:28  <b>encompass</b> [5] - 366:15, 372:16, 373:16, 373:21, 373:32  <b>encountered</b> [2] - 344:19, 366:17  <b>encouraging</b> [1] - 361:34  <b>end</b> [6] - 334:33, 344:34, 345:27, 345:29  <b>end-to-end</b> [2] - 345:27, 345:29  <b>endorsements</b> [1] - 361:5  <b>endorsing</b> [1] - 361:9  <b>engage</b> [3] - 352:13, 357:27, 360:4  <b>engaged</b> [2] - 347:22, 369:14  <b>engagement</b> [1] - 357:28  <b>engineers</b> [1] - 335:14  <b>enormous</b> [3] - 360:39, 360:46, 375:19  <b>ensure</b> [8] - 335:36, 341:43, 341:44, 357:32, 358:1, 359:17, 374:28, 379:4  <b>ensured</b> [1] - 337:13  <b>ensures</b> [1] - 338:40  <b>ensuring</b> [2] - 357:17, 371:40  <b>entailed</b> [1] - 356:39</p>	<p><b>entire</b> [6] - 351:29, 351:32, 351:38, 368:5, 370:8, 375:24  <b>entirely</b> [1] - 359:20  <b>entirety</b> [1] - 377:19  <b>entity</b> [1] - 343:4  <b>environment</b> [6] - 339:26, 342:6, 357:28, 358:5, 360:5, 363:1  <b>equipment</b> [3] - 338:41, 338:42, 344:42  <b>escalate</b> [2] - 343:24, 364:35  <b>especially</b> [3] - 334:2, 358:12, 358:15  <b>essence</b> [1] - 374:12  <b>essentially</b> [2] - 340:7, 344:33  <b>establish</b> [1] - 355:2  <b>established</b> [3] - 356:10, 356:16, 361:16  <b>establishes</b> [2] - 368:25, 371:12  <b>establishment</b> [2] - 357:4, 357:45  <b>estimate</b> [1] - 375:17  <b>et</b> [1] - 338:43  <b>evaluation</b> [1] - 330:18  <b>evening</b> [1] - 350:14  <b>event</b> [3] - 334:12, 349:39, 371:44  <b>events</b> [4] - 338:24, 339:35, 349:40, 354:12  <b>evidence</b> [128] - 330:8, 330:9, 330:12, 330:15, 330:18, 330:20, 330:36, 330:44, 333:9, 333:12, 333:16, 334:13, 334:15, 334:22, 334:26, 334:38, 334:44, 335:38, 335:41, 336:6, 336:31, 336:32, 337:13, 337:14, 338:1, 338:2, 338:6, 338:10, 338:20, 338:23, 341:1, 341:3, 342:25, 342:44, 342:46, 342:47, 343:2, 343:6, 344:15, 345:28, 345:39, 346:45, 347:4,</p>	<p>347:13, 347:30, 348:19, 348:25, 348:30, 348:36, 349:37, 349:42, 350:1, 350:5, 350:31, 352:4, 352:46, 353:6, 353:20, 353:31, 353:33, 353:38, 354:9, 354:22, 354:23, 354:30, 355:2, 355:7, 356:27, 356:30, 356:33, 356:40, 357:31, 357:36, 358:2, 359:8, 359:25, 359:29, 359:32, 359:40, 360:38, 361:10, 361:15, 361:46, 362:15, 363:10, 363:23, 365:11, 365:25, 365:31, 365:34, 365:37, 366:6, 366:7, 367:19, 367:29, 367:46, 368:25, 368:30, 369:10, 369:13, 369:37, 369:45, 369:46, 370:6, 370:14, 370:15, 370:32, 370:37, 370:46, 371:12, 371:17, 371:42, 371:45, 372:7, 372:26, 372:29, 372:31, 372:43, 372:45, 373:21, 374:35, 374:37, 374:44, 375:32, 376:41, 378:21  <b>evident</b> [1] - 353:20  <b>evidential</b> [1] - 346:26  <b>evidentiary</b> [1] - 346:26  <b>exact</b> [1] - 379:7  <b>exactly</b> [1] - 339:2  <b>examinations</b> [1] - 356:18  <b>examine</b> [1] - 329:15  <b>examined</b> [1] - 336:27  <b>example</b> [3] - 359:28, 373:32, 373:46  <b>exceeding</b> [1] - 349:43  <b>exchange</b> [1] - 358:1  <b>exchanges</b> [2] - 376:42, 377:41  <b>executive</b> [2] - 337:18,</p>
<b>E</b>				
<p><b>early</b> [5] - 334:34, 338:26, 344:9, 368:3, 368:7  <b>easily</b> [1] - 338:33  <b>easy</b> [1] - 375:30  <b>effect</b> [1] - 358:30  <b>effective</b> [2] - 361:34, 369:9  <b>effectively</b> [1] - 369:10  <b>effectiveness</b> [1] - 337:4  <b>efficiency</b> [2] - 345:8, 345:25  <b>effort</b> [3] - 360:25, 375:19, 375:22  <b>efforts</b> [1] - 376:7  <b>eight</b> [2] - 346:31, 349:46  <b>either</b> [4] - 333:32, 356:28, 359:39, 366:9  <b>elution</b> [9] - 340:38, 340:40, 340:45,</p>				

<p>363:14  <b>Executive</b> [1] - 338:40  <b>exigency</b> [1] - 332:44  <b>expect</b> [1] - 354:16  <b>expectation</b> [1] - 366:12  <b>expected</b> [9] - 341:40, 351:8, 351:12, 351:22, 353:28, 365:19, 366:23, 370:31, 370:34  <b>experience</b> [5] - 335:14, 335:21, 340:43, 363:20, 364:24  <b>experienced</b> [2] - 335:30, 377:36  <b>experimental</b> [1] - 342:8  <b>experimentally</b> [1] - 367:23  <b>experiments</b> [2] - 345:29, 366:32  <b>expert</b> [13] - 333:11, 336:6, 338:3, 338:16, 338:18, 341:38, 347:12, 355:8, 357:13, 359:12, 370:38, 377:13, 377:36  <b>expertise</b> [2] - 358:32, 363:5  <b>experts</b> [9] - 330:16, 340:5, 355:19, 356:21, 356:22, 356:40, 357:1, 368:46, 369:4  <b>explain</b> [1] - 333:37  <b>explained</b> [1] - 354:12  <b>explanation</b> [1] - 371:38  <b>expressed</b> [5] - 355:3, 367:40, 368:38, 373:21, 377:12  <b>expression</b> [2] - 374:16, 378:20  <b>expressly</b> [2] - 350:27, 377:25  <b>extending</b> [2] - 358:34, 372:17  <b>extensive</b> [2] - 336:35, 372:9  <b>extent</b> [9] - 330:36, 330:37, 347:14, 351:1, 352:34, 361:28, 369:29, 377:15, 377:42  <b>extra</b> [1] - 342:42  <b>extract</b> [3] - 332:38, 333:35, 343:15</p>	<p><b>extracted</b> [4] - 345:25, 345:31, 358:35, 372:19  <b>extraction</b> [31] - 330:26, 330:30, 332:9, 332:41, 334:39, 337:3, 337:5, 339:11, 339:12, 339:21, 339:28, 340:2, 340:10, 344:7, 345:27, 345:30, 347:41, 350:42, 350:43, 350:46, 353:11, 353:24, 353:27, 357:41, 366:8, 366:16, 370:11, 370:23, 370:24, 370:27, 377:3  <b>extracts</b> [1] - 368:41  <b>extremely</b> [2] - 330:47, 331:9</p> <p style="text-align: center;"><b>F</b></p> <p><b>face</b> [4] - 334:10, 350:29, 353:12, 369:25  <b>facilities</b> [1] - 356:43  <b>facility</b> [1] - 363:8  <b>facility"</b> [1] - 361:44  <b>fact</b> [8] - 333:24, 333:36, 343:9, 351:4, 355:10, 359:27, 365:34, 370:14  <b>factor</b> [1] - 367:17  <b>factors</b> [1] - 345:23  <b>failed</b> [10] - 332:36, 333:30, 333:33, 333:37, 342:20, 345:21, 345:26, 346:29, 346:32, 365:16  <b>failing</b> [5] - 332:25, 333:35, 336:3, 343:14, 343:17  <b>failings</b> [4] - 333:38, 337:11, 347:11, 347:14  <b>failure</b> [1] - 369:21  <b>failures</b> [3] - 350:11, 353:19, 369:17  <b>faith</b> [1] - 333:3  <b>fall</b> [2] - 334:11, 366:3  <b>fantastically</b> [1] - 366:39  <b>far</b> [4] - 332:10, 332:26, 372:24,</p>	<p>375:16  <b>far"</b> [1] - 360:41  <b>fashion</b> [1] - 363:22  <b>fast</b> [1] - 346:15  <b>fast-forwarding</b> [1] - 346:15  <b>favoured</b> [1] - 332:44  <b>February</b> [3] - 343:41, 349:40, 364:9  <b>fell</b> [1] - 340:6  <b>felt</b> [3] - 353:2, 355:30, 355:33  <b>few</b> [3] - 342:25, 352:41, 356:36  <b>fifthly</b> [1] - 357:15  <b>figure</b> [1] - 354:31  <b>figures</b> [1] - 342:18  <b>files</b> [1] - 348:28  <b>filled</b> [1] - 364:44  <b>final</b> [8] - 330:19, 339:34, 349:35, 349:38, 355:46, 357:12, 365:10, 373:1  <b>finalised</b> [4] - 343:1, 349:9, 352:45, 362:33  <b>finally</b> [5] - 333:39, 334:8, 357:28, 362:36, 363:10  <b>findings</b> [1] - 379:5  <b>finish</b> [1] - 330:4  <b>first</b> [31] - 330:6, 332:16, 332:28, 333:10, 333:11, 333:12, 333:17, 335:46, 336:6, 336:20, 336:43, 337:20, 338:3, 339:30, 339:33, 340:9, 341:29, 343:38, 343:40, 344:10, 347:20, 347:25, 348:37, 349:40, 355:46, 356:1, 360:43, 364:45, 368:42, 369:22, 375:19  <b>firstly</b> [13] - 332:34, 333:44, 334:23, 342:26, 343:40, 346:29, 347:4, 347:10, 349:42, 356:38, 366:7, 372:9, 373:20  <b>fit</b> [2] - 339:25, 371:41  <b>five</b> [5] - 330:5, 331:8, 337:41, 339:21, 340:23  <b>fix</b> [1] - 346:36</p>	<p><b>fixed</b> [1] - 335:37  <b>flawed</b> [8] - 350:32, 351:13, 351:22, 351:28, 352:7, 369:27, 370:7, 370:35  <b>flaws</b> [1] - 368:32  <b>flew</b> [1] - 348:38  <b>focus</b> [7] - 331:47, 352:38, 362:29, 368:5, 371:39, 378:25, 378:38  <b>focused</b> [6] - 348:31, 351:47, 361:42, 363:6, 371:8, 371:43  <b>fog</b> [1] - 354:34  <b>follow</b> [1] - 340:13  <b>followed</b> [4] - 340:32, 344:29, 349:17, 349:23  <b>following</b> [8] - 331:13, 345:40, 351:5, 354:22, 361:18, 362:6, 369:45, 372:6  <b>follows</b> [2] - 366:28, 371:12  <b>Forensic</b> [7] - 332:12, 332:13, 334:6, 335:43, 347:29, 362:40, 363:13  <b>forensic</b> [8] - 333:4, 336:25, 356:18, 356:19, 356:20, 357:40, 361:26, 362:1  <b>form</b> [2] - 344:37, 345:22  <b>formal</b> [1] - 331:42  <b>formally</b> [1] - 376:1  <b>format</b> [1] - 362:13  <b>formatting</b> [1] - 358:22  <b>former</b> [2] - 335:5, 372:35  <b>forum</b> [1] - 334:15  <b>forward</b> [1] - 363:38  <b>forwarding</b> [1] - 346:15  <b>four</b> [2] - 339:10, 340:8  <b>fourth</b> [2] - 330:17, 341:28  <b>fourthly</b> [2] - 343:45, 357:9  <b>fox</b> [8] - 359:43, 373:36, 375:16, 375:20, 376:40, 377:18, 377:41, 378:15  <b>Fox</b> [2] - 329:34, 330:1</p>	<p><b>FOX</b> [45] - 330:3, 331:21, 331:47, 339:2, 340:23, 341:7, 341:12, 341:21, 341:28, 352:34, 355:35, 358:9, 358:19, 358:40, 359:1, 359:5, 359:20, 359:25, 359:45, 360:4, 360:11, 360:31, 363:28, 363:33, 363:37, 363:46, 364:4, 367:2, 367:19, 367:26, 367:31, 368:40, 371:23, 372:34, 372:39, 372:45, 373:40, 374:2, 374:12, 374:41, 375:2, 375:9, 375:13, 376:17, 376:23  <b>framed</b> [1] - 377:37  <b>framework</b> [2] - 357:9, 364:14  <b>frankly</b> [3] - 346:42, 351:31, 360:39  <b>freely</b> [1] - 362:11  <b>frequent</b> [1] - 335:44  <b>Friday</b> [1] - 329:25  <b>friendliness</b> [1] - 339:14  <b>frightened</b> [2] - 364:1, 364:4  <b>front</b> [1] - 375:39  <b>front-loading</b> [1] - 375:39  <b>FSQ</b> [28] - 336:13, 337:19, 337:33, 337:40, 355:45, 356:10, 356:12, 356:27, 356:33, 356:35, 356:46, 357:5, 357:17, 359:8, 359:29, 359:33, 361:9, 361:12, 361:23, 361:39, 362:1, 362:2, 363:6, 364:9, 372:3, 372:22, 372:25, 374:24  <b>FSQ's</b> [1] - 372:10  <b>full</b> [4] - 346:11, 351:44, 361:28, 363:22  <b>fully</b> [9] - 336:17, 343:46, 353:23, 353:25, 367:36, 368:33, 377:3,</p>
---	---	---	--	--

<p>377:4, 378:9  <b>functioning</b> [1] - 360:35  <b>fundamental</b> [1] - 361:30  <b>future</b> [2] - 338:41, 349:15</p>	<b>H</b>	<p><b>history</b> [1] - 365:46  <b>Hlinka</b> [3] - 340:33, 342:31, 343:1  <b>holds</b> [1] - 361:47  <b>Hon</b> [1] - 329:29  <b>honest</b> [2] - 365:28, 365:38  <b>honesty</b> [1] - 354:41  <b>hope</b> [1] - 363:30  <b>hot</b> [16] - 330:17, 336:6, 336:9, 337:24, 337:27, 338:3, 338:10, 338:13, 338:16, 338:18, 338:20, 340:6, 341:38, 342:27, 359:12, 367:12  <b>hours</b> [2] - 331:10, 347:33  <b>house</b> [1] - 339:13  <b>hunter</b> [1] - 364:42  <b>hurdle</b> [1] - 344:18  <b>hybrid</b> [2] - 350:43, 370:24</p>	<p>345:22, 359:26, 367:44, 368:1, 369:9  <b>implementation</b> [29] - 332:35, 333:2, 338:7, 342:41, 343:13, 343:26, 343:32, 344:19, 344:24, 344:29, 345:16, 345:37, 345:40, 357:6, 357:11, 357:15, 364:20, 364:42, 365:16, 365:21, 365:47, 368:7, 369:1, 372:12, 374:27, 374:31, 374:33, 374:35  <b>implemented</b> [14] - 332:31, 343:9, 344:37, 348:12, 350:34, 351:30, 353:12, 353:13, 356:35, 362:27, 362:34, 364:17, 367:40, 369:11  <b>implementing</b> [4] - 334:1, 356:8, 366:16, 371:43  <b>importance</b> [4] - 358:11, 358:14, 362:23, 370:9  <b>important</b> [5] - 342:25, 355:4, 360:18, 373:10, 373:12  <b>importantly</b> [2] - 337:9, 339:43  <b>impose</b> [1] - 374:42  <b>impossible</b> [1] - 345:31  <b>imprecise</b> [2] - 346:42, 358:3  <b>impressive</b> [1] - 372:24  <b>improve</b> [1] - 344:20  <b>improved</b> [2] - 345:41, 353:14  <b>improvement</b> [2] - 361:39, 369:9  <b>improvements</b> [1] - 359:30  <b>impurities</b> [1] - 339:17  <b>in-depth</b> [1] - 356:39  <b>in-house</b> [1] - 339:13  <b>incapacities</b> [1] - 346:23  <b>include</b> [3] - 340:10, 340:38, 368:18  <b>included</b> [8] - 335:8, 347:38, 348:47,</p>	<p>349:7, 349:8, 356:42, 365:1, 365:44  <b>includes</b> [3] - 357:5, 361:18, 374:14  <b>including</b> [20] - 332:43, 344:28, 346:33, 347:33, 348:27, 348:32, 349:11, 349:17, 349:29, 349:31, 350:35, 353:8, 353:40, 356:22, 357:11, 357:22, 357:26, 366:1, 371:46, 375:33  <b>inconsistencies</b> [2] - 355:26, 355:40  <b>inconsistent</b> [3] - 333:24, 342:11, 358:3  <b>incorporated</b> [1] - 341:32  <b>incubation</b> [2] - 340:11, 340:18  <b>indeed</b> [15] - 338:20, 339:2, 339:25, 339:34, 342:12, 342:20, 345:42, 350:27, 355:22, 358:19, 367:47, 368:40, 371:27, 375:32, 378:27  <b>independent</b> [6] - 334:39, 343:28, 356:39, 356:47, 357:13, 369:4  <b>independently</b> [1] - 360:19  <b>indicate</b> [3] - 330:40, 359:45, 374:21  <b>indicated</b> [8] - 338:32, 344:25, 344:30, 346:22, 361:1, 361:8, 361:12, 376:18  <b>indicating</b> [1] - 330:5  <b>indication</b> [1] - 330:11  <b>indistinct</b> [1] - 374:9  <b>indistinct</b> [2] - 363:35, 372:28  <b>individual</b> [3] - 331:1, 331:6, 365:36  <b>individually</b> [1] - 341:37  <b>infers</b> [1] - 343:29  <b>inform</b> [3] - 353:47, 369:34, 370:6  <b>information</b> [8] - 331:22, 331:43,</p>
<b>G</b>	<p><b>half</b> [1] - 376:26  <b>hand</b> [1] - 370:43  <b>handling</b> [3] - 333:46, 335:34, 337:35  <b>hard</b> [1] - 353:2  <b>harder</b> [1] - 360:33  <b>head</b> [3] - 354:42, 367:7, 378:30  <b>heading</b> [2] - 348:47, 374:12  <b>Health</b> [6] - 331:3, 331:11, 356:12, 363:14, 364:7, 373:13  <b>hear</b> [3] - 354:20, 360:20, 378:15  <b>heard</b> [5] - 338:27, 340:9, 376:28, 377:17, 377:31  <b>hearing</b> [4] - 330:10, 338:24, 338:28, 373:6  <b>heartened</b> [1] - 362:44  <b>heavily</b> [1] - 331:25  <b>hedge</b> [14] - 336:40, 337:8, 337:10, 347:36, 348:20, 353:33, 353:46, 354:15, 369:31, 376:42, 376:43, 376:45, 377:5, 378:1  <b>Hedge</b> [1] - 336:40  <b>hedge's</b> [1] - 353:38  <b>held</b> [5] - 333:3, 335:7, 336:9, 337:27, 377:6  <b>helping</b> [2] - 363:7, 379:32  <b>hence</b> [2] - 366:42, 367:33  <b>Herculean</b> [1] - 360:25  <b>herself</b> [2] - 363:44, 377:12  <b>high</b> [5] - 345:12, 354:39, 354:40, 357:35, 368:14  <b>high-level</b> [1] - 357:35  <b>higher</b> [7] - 340:26, 340:43, 341:4, 341:14, 341:17, 341:25, 345:14  <b>himself</b> [1] - 337:41  <b>hindsight</b> [1] - 352:1  <b>hiring</b> [1] - 357:23  <b>historical</b> [6] - 330:30, 358:29, 364:18, 365:26, 371:33, 372:15  <b>historically</b> [1] - 365:3</p>	<b>I</b>	<p><b>lannuzi</b> [2] - 334:24, 334:35  <b>Ideally</b> [1] - 367:35  <b>ideas</b> [1] - 358:1  <b>identification</b> [2] - 348:9, 349:13  <b>identified</b> [10] - 335:18, 347:11, 350:18, 350:22, 354:18, 355:28, 360:42, 361:29, 364:31, 378:7  <b>identifies</b> [2] - 335:38, 364:26  <b>identify</b> [12] - 330:8, 331:25, 331:33, 331:41, 342:35, 350:10, 350:41, 354:16, 360:18, 362:43, 370:23, 370:29  <b>identifying</b> [1] - 351:19  <b>lentile</b> [5] - 337:27, 338:14, 343:20, 343:28, 367:42  <b>illicit</b> [1] - 356:41  <b>immediately</b> [3] - 333:34, 350:32, 369:26  <b>impact</b> [1] - 362:46  <b>implement</b> [5] -</p>	
<p><b>Gabriella</b> [1] - 329:35  <b>gain</b> [1] - 370:17  <b>gap</b> [1] - 357:35  <b>General</b> [1] - 331:4  <b>general</b> [5] - 330:7, 331:16, 343:30, 351:45, 363:31  <b>generalised</b> [1] - 334:38  <b>generally</b> [2] - 358:11, 369:2  <b>Generosa</b> [1] - 334:23  <b>genomic</b> [1] - 345:24  <b>George</b> [1] - 329:22  <b>gilding</b> [1] - 363:23  <b>given</b> [28] - 331:9, 331:23, 333:20, 334:13, 335:12, 336:32, 336:34, 338:1, 338:2, 347:37, 348:21, 350:34, 351:15, 352:26, 354:15, 355:21, 360:15, 360:42, 363:24, 365:19, 365:25, 365:28, 365:42, 372:40, 373:22, 375:31, 376:3, 376:39  <b>goal</b> [1] - 362:29  <b>governance</b> [2] - 364:14, 369:17  <b>government</b> [2] - 331:1, 331:24  <b>graduate</b> [1] - 334:33  <b>graphs</b> [1] - 342:15  <b>greater</b> [1] - 353:27  <b>ground</b> [3] - 351:34, 362:39, 377:43  <b>Group</b> [1] - 335:44  <b>group</b> [1] - 357:4  <b>groups</b> [1] - 356:24  <b>guidance</b> [1] - 362:28  <b>guideline</b> [1] - 357:17  <b>guidelines</b> [1] - 357:2  <b>gum</b> [1] - 340:26  <b>gun</b> [1] - 373:36</p>	<p><b>lannuzi</b> [2] - 334:24, 334:35  <b>Ideally</b> [1] - 367:35  <b>ideas</b> [1] - 358:1  <b>identification</b> [2] - 348:9, 349:13  <b>identified</b> [10] - 335:18, 347:11, 350:18, 350:22, 354:18, 355:28, 360:42, 361:29, 364:31, 378:7  <b>identifies</b> [2] - 335:38, 364:26  <b>identify</b> [12] - 330:8, 331:25, 331:33, 331:41, 342:35, 350:10, 350:41, 354:16, 360:18, 362:43, 370:23, 370:29  <b>identifying</b> [1] - 351:19  <b>lentile</b> [5] - 337:27, 338:14, 343:20, 343:28, 367:42  <b>illicit</b> [1] - 356:41  <b>immediately</b> [3] - 333:34, 350:32, 369:26  <b>impact</b> [1] - 362:46  <b>implement</b> [5] -</p>	<p>345:22, 359:26, 367:44, 368:1, 369:9  <b>implementation</b> [29] - 332:35, 333:2, 338:7, 342:41, 343:13, 343:26, 343:32, 344:19, 344:24, 344:29, 345:16, 345:37, 345:40, 357:6, 357:11, 357:15, 364:20, 364:42, 365:16, 365:21, 365:47, 368:7, 369:1, 372:12, 374:27, 374:31, 374:33, 374:35  <b>implemented</b> [14] - 332:31, 343:9, 344:37, 348:12, 350:34, 351:30, 353:12, 353:13, 356:35, 362:27, 362:34, 364:17, 367:40, 369:11  <b>implementing</b> [4] - 334:1, 356:8, 366:16, 371:43  <b>importance</b> [4] - 358:11, 358:14, 362:23, 370:9  <b>important</b> [5] - 342:25, 355:4, 360:18, 373:10, 373:12  <b>importantly</b> [2] - 337:9, 339:43  <b>impose</b> [1] - 374:42  <b>impossible</b> [1] - 345:31  <b>imprecise</b> [2] - 346:42, 358:3  <b>impressive</b> [1] - 372:24  <b>improve</b> [1] - 344:20  <b>improved</b> [2] - 345:41, 353:14  <b>improvement</b> [2] - 361:39, 369:9  <b>improvements</b> [1] - 359:30  <b>impurities</b> [1] - 339:17  <b>in-depth</b> [1] - 356:39  <b>in-house</b> [1] - 339:13  <b>incapacities</b> [1] - 346:23  <b>include</b> [3] - 340:10, 340:38, 368:18  <b>included</b> [8] - 335:8, 347:38, 348:47,</p>		

<p>349:12, 351:17, 352:37, 353:2, 353:8, 365:46</p> <p><b>informed</b> [2] - 353:18, 377:2</p> <p><b>informs</b> [1] - 336:19</p> <p><b>infrastructure</b> [1] - 371:42</p> <p><b>Ingrid</b> [1] - 362:3</p> <p><b>inhibitors</b> [1] - 341:4</p> <p><b>innovation</b> [5] - 357:5, 357:46, 358:20, 359:35, 372:11</p> <p><b>inquiry</b> [3] - 332:17, 333:12, 339:30</p> <p><b>INQUIRY</b> [1] - 379:41</p> <p><b>Inquiry</b> [83] - 329:14, 330:8, 330:24, 330:29, 330:33, 330:37, 330:40, 330:43, 330:46, 330:47, 331:24, 331:47, 332:4, 332:6, 333:10, 333:11, 333:17, 333:32, 333:39, 333:40, 333:44, 333:47, 334:2, 335:42, 335:45, 336:41, 337:20, 337:43, 339:34, 343:38, 344:31, 344:33, 346:46, 347:13, 347:15, 347:16, 347:21, 347:25, 347:28, 347:31, 347:32, 348:15, 348:37, 348:38, 349:36, 350:27, 350:33, 351:10, 352:46, 353:17, 353:19, 353:21, 353:33, 354:23, 355:9, 355:11, 355:12, 355:22, 355:25, 355:30, 355:38, 359:28, 360:43, 361:25, 365:42, 368:22, 369:22, 369:32, 369:46, 370:32, 373:17, 374:18, 375:25, 375:29, 375:33, 375:39, 375:46, 376:4, 376:9, 379:29, 379:36</p> <p><b>Inquiry's</b> [2] - 355:46, 356:1</p> <p><b>inside</b> [1] - 376:4</p>	<p><b>install</b> [1] - 335:15</p> <p><b>instance</b> [2] - 341:30, 341:32</p> <p><b>institute</b> [1] - 356:29</p> <p><b>Institute</b> [1] - 338:40</p> <p><b>instituted</b> [1] - 356:29</p> <p><b>institutions</b> [1] - 356:21</p> <p><b>instructed</b> [1] - 348:4</p> <p><b>instruction</b> [2] - 347:23, 348:46</p> <p><b>instructions</b> [7] - 347:37, 347:44, 348:16, 348:20, 348:40, 349:45, 354:15</p> <p><b>instrument</b> [1] - 347:39</p> <p><b>instruments</b> [1] - 344:2</p> <p><b>insufficient</b> [1] - 376:3</p> <p><b>insufficiently</b> [1] - 369:7</p> <p><b>integrity</b> [3] - 333:45, 334:1, 347:7</p> <p><b>intended</b> [3] - 343:24, 343:31, 374:6</p> <p><b>intends</b> [3] - 356:29, 357:46, 359:25</p> <p><b>intense</b> [2] - 350:3, 356:46</p> <p><b>intention</b> [1] - 364:32</p> <p><b>interactions</b> [2] - 348:26, 369:47</p> <p><b>interest</b> [5] - 334:10, 334:18, 336:19, 356:24, 373:31</p> <p><b>interim</b> [1] - 356:10</p> <p><b>international</b> [3] - 348:7, 348:10, 348:13</p> <p><b>interpretation</b> [3] - 342:12, 356:47, 357:2</p> <p><b>interrupt</b> [4] - 331:28, 359:11, 359:38, 373:24</p> <p><b>interstate</b> [3] - 356:22, 356:40, 357:13</p> <p><b>interview</b> [1] - 371:29</p> <p><b>interviews</b> [2] - 351:24, 351:27</p> <p><b>introduce</b> [1] - 338:42</p> <p><b>introduced</b> [8] - 338:5, 339:3, 340:42, 342:29, 342:47, 343:33, 344:3, 344:21</p> <p><b>introduction</b> [6] - 330:7, 332:6,</p>	<p>338:29, 354:13, 357:21, 368:27</p> <p><b>invalid</b> [1] - 370:9</p> <p><b>investigate</b> [5] - 354:7, 354:20, 364:33, 368:23, 369:41</p> <p><b>investigated</b> [4] - 337:13, 339:8, 342:2, 343:43</p> <p><b>investigating</b> [2] - 339:44, 374:18</p> <p><b>investigation</b> [8] - 339:21, 339:38, 342:4, 342:6, 348:9, 348:27, 352:39, 354:19</p> <p><b>invite</b> [1] - 373:19</p> <p><b>involved</b> [8] - 336:23, 344:13, 365:20, 375:34, 376:2, 376:8, 378:19, 379:31</p> <p><b>involves</b> [2] - 357:10, 376:43</p> <p><b>involving</b> [1] - 343:32</p> <p><b>ionic</b> [1] - 366:34</p> <p><b>IQ</b> [20] - 332:24, 337:2, 337:5, 338:4, 339:5, 339:8, 339:22, 340:1, 340:12, 340:39, 342:2, 344:6, 344:28, 345:18, 346:29, 346:40, 347:38, 347:40, 355:11, 368:17</p> <p><b>isolate</b> [1] - 345:11</p> <p><b>issue</b> [48] - 333:8, 333:9, 334:17, 335:27, 335:37, 336:7, 337:3, 337:16, 337:22, 337:35, 339:35, 344:24, 345:16, 347:45, 347:47, 348:8, 348:9, 348:19, 349:37, 350:10, 351:20, 352:40, 352:42, 352:47, 353:14, 353:17, 353:29, 353:36, 354:5, 354:11, 354:19, 354:28, 355:5, 360:33, 360:34, 365:12, 366:26, 366:37, 366:40, 367:5, 367:10, 368:6, 368:7,</p>	<p>368:16, 370:9, 371:47, 374:15, 377:24</p> <p><b>issued</b> [2] - 331:8, 374:23</p> <p><b>issues</b> [40] - 330:20, 330:38, 333:13, 333:15, 335:29, 335:33, 335:46, 343:43, 343:46, 344:30, 348:7, 348:32, 348:33, 349:14, 350:18, 350:25, 350:28, 350:35, 350:39, 350:41, 351:16, 351:47, 352:38, 353:32, 353:42, 355:11, 355:28, 355:44, 357:25, 364:27, 364:31, 364:33, 368:3, 369:23, 369:24, 369:39, 370:15, 371:24, 378:35, 378:38</p> <p><b>it</b> [2] - 354:20, 361:1</p> <p><b>item</b> [1] - 336:21</p> <p><b>iteration</b> [1] - 342:46</p> <p><b>iterations</b> [2] - 342:45, 354:24</p> <p><b>iterative</b> [1] - 349:30</p> <p><b>itself</b> [4] - 356:12, 368:28, 375:39, 376:5</p>	<p>347:25, 371:16</p> <p><b>jumping</b> [2] - 373:36, 379:32</p> <p><b>June</b> [3] - 334:33, 339:20, 339:39</p> <p><b>junior</b> [1] - 336:40</p> <p><b>jurisdictions</b> [1] - 338:42</p> <p><b>Justice</b> [1] - 331:4</p> <p><b>justice</b> [6] - 332:39, 333:4, 336:26, 356:19, 359:36, 362:46</p> <p><b>justifications</b> [1] - 365:36</p> <p><b>justified</b> [1] - 365:35</p> <p><b>justify</b> [1] - 345:34</p>
<b>K</b>				
<p><b>KC</b> [2] - 336:14, 356:15</p> <p><b>keen</b> [1] - 354:20</p> <p><b>keep</b> [2] - 358:1, 373:41</p> <p><b>keeping</b> [1] - 359:13</p> <p><b>Keller</b> [1] - 362:4</p> <p><b>kind</b> [2] - 358:25, 365:38</p> <p><b>kits</b> [4] - 339:11, 339:12, 339:15, 339:21</p> <p><b>known</b> [7] - 332:8, 332:35, 342:5, 342:40, 344:13, 348:38</p> <p><b>knows</b> [1] - 342:42</p> <p><b>KPIs</b> [5] - 374:24, 374:27, 374:30, 374:32, 375:6</p> <p><b>Kylie</b> [1] - 362:4</p>				
<b>J</b>				
<p><b>January</b> [4] - 356:6, 356:27, 356:30, 356:34</p> <p><b>Jeremy</b> [2] - 337:32, 361:13</p> <p><b>Jo</b> [1] - 355:15</p> <p><b>joined</b> [1] - 330:16</p> <p><b>joint</b> [7] - 337:31, 337:34, 337:40, 337:43, 345:44, 362:2, 362:5</p> <p><b>jointly</b> [1] - 361:11</p> <p><b>journalist</b> [1] - 371:29</p> <p><b>journalists</b> [1] - 355:27</p> <p><b>journey</b> [2] - 358:26, 361:3</p> <p><b>judge</b> [1] - 336:12</p> <p><b>Julie</b> [1] - 336:12</p> <p><b>July</b> [7] - 336:27, 343:41, 344:25, 344:27, 347:23,</p>				
<b>L</b>				
<p><b>lab</b> [13] - 332:20, 335:30, 344:16, 344:26, 360:33, 360:34, 360:35, 364:26, 364:32, 365:6, 365:8, 371:40, 371:44</p> <p><b>laboratories</b> [5] - 332:10, 335:19, 338:36, 357:47, 359:17</p> <p><b>laboratory</b> [73] - 330:26, 332:11, 332:21, 332:43, 333:15, 334:35, 335:26, 335:39,</p>				

<p>336:1, 337:16, 337:37, 337:42, 337:45, 338:4, 338:25, 339:4, 339:9, 339:23, 339:31, 339:35, 340:27, 340:43, 341:14, 341:28, 341:31, 342:29, 343:3, 343:24, 343:30, 343:34, 343:44, 344:19, 344:35, 344:40, 344:41, 344:47, 345:2, 345:10, 345:17, 345:21, 345:24, 345:41, 346:8, 346:10, 346:22, 347:45, 351:30, 356:7, 356:17, 356:29, 356:41, 356:44, 359:26, 360:38, 360:46, 361:15, 361:29, 361:43, 362:39, 363:7, 364:12, 365:30, 366:9, 366:18, 368:5, 368:8, 368:16, 369:17, 371:19, 371:34, 372:30</p> <p><b>laboratory's</b> [4] - 339:38, 348:34, 356:38, 357:1</p> <p><b>laborious</b> [1] - 344:16</p> <p><b>lack</b> [5] - 333:45, 351:16, 377:47, 378:21, 378:24</p> <p><b>lacked</b> [1] - 369:6</p> <p><b>language</b> [11] - 352:14, 352:20, 352:25, 352:29, 358:4, 358:12, 358:19, 370:38, 371:6, 371:9</p> <p><b>large</b> [2] - 330:47, 333:20</p> <p><b>largely</b> [1] - 351:46</p> <p><b>largest</b> [1] - 331:10</p> <p><b>last</b> [1] - 347:25</p> <p><b>lastly</b> [2] - 332:43, 337:30</p> <p><b>late</b> [1] - 338:25</p> <p><b>latest</b> [1] - 359:14</p> <p><b>launch</b> [3] - 343:19, 343:31, 343:34</p> <p><b>launched</b> [1] - 367:41</p> <p><b>leaders</b> [1] - 361:34</p>	<p><b>leadership</b> [16] - 337:33, 337:36, 337:44, 357:4, 357:7, 359:8, 361:12, 361:16, 361:41, 361:42, 362:40, 363:4, 363:6, 364:15, 365:5, 372:25</p> <p><b>leading</b> [2] - 336:46, 347:41</p> <p><b>least</b> [7] - 332:10, 332:34, 342:5, 350:18, 373:3, 377:10, 378:32</p> <p><b>leave</b> [1] - 339:17</p> <p><b>led</b> [2] - 358:31, 368:43</p> <p><b>legally</b> [2] - 358:31, 368:43</p> <p><b>less</b> [3] - 331:10, 332:26, 346:35</p> <p><b>letter</b> [3] - 337:40, 337:43, 348:46</p> <p><b>letters</b> [1] - 347:23</p> <p><b>level</b> [3] - 354:39, 354:40, 357:35</p> <p><b>life</b> [1] - 374:7</p> <p><b>light</b> [1] - 366:6</p> <p><b>likely</b> [3] - 332:42, 342:34, 366:26</p> <p><b>lily</b> [1] - 363:23</p> <p><b>limited</b> [7] - 330:24, 346:18, 351:6, 354:25, 358:34, 370:1, 372:19</p> <p><b>line</b> [3] - 344:26, 360:6, 360:7</p> <p><b>links</b> [1] - 365:1</p> <p><b>Linzi</b> [1] - 361:21</p> <p><b>liquid</b> [1] - 335:34</p> <p><b>liquid-handling</b> [1] - 335:34</p> <p><b>listening</b> [1] - 360:16</p> <p><b>literal</b> [1] - 374:4</p> <p><b>live</b> [1] - 343:21</p> <p><b>loading</b> [1] - 375:39</p> <p><b>long-term</b> [2] - 363:12, 364:6</p> <p><b>look</b> [5] - 348:16, 373:29, 374:5, 375:6, 375:30</p> <p><b>looked</b> [3] - 344:41, 372:1, 373:27</p> <p><b>looking</b> [8] - 348:32, 352:42, 352:47, 354:31, 354:33, 354:37, 358:43, 373:28</p> <p><b>loose</b> [1] - 331:29</p>	<p><b>low</b> [5] - 343:21, 345:12, 346:2, 367:40, 370:10</p> <p><b>lower</b> [6] - 340:17, 340:40, 341:2, 341:13, 346:31, 366:22</p> <p><b>lowered</b> [1] - 340:29</p> <p><b>lunch</b> [4] - 330:5, 376:18, 376:21, 376:34</p> <p><b>Lundie</b> [2] - 334:23, 334:32</p> <p><b>lysis</b> [12] - 340:10, 340:12, 340:18, 340:35, 344:14, 344:17, 344:43, 345:1, 346:17, 346:30, 353:29, 368:19</p>	<p><b>manually</b> [3] - 339:4, 339:6, 345:2</p> <p><b>manufacturer</b> [4] - 331:2, 331:5, 335:6, 366:9</p> <p><b>manufacturer's</b> [3] - 335:14, 339:45, 339:46</p> <p><b>manufacturers</b> [1] - 339:11</p> <p><b>market</b> [1] - 341:34</p> <p><b>material</b> [9] - 330:44, 331:26, 339:32, 348:27, 349:7, 359:7, 374:10, 375:23, 375:42</p> <p><b>materiality</b> [1] - 358:31</p> <p><b>materials</b> [6] - 348:40, 348:41, 349:6, 349:28, 350:6, 374:7</p> <p><b>matter</b> [16] - 330:14, 330:17, 330:19, 333:28, 337:47, 343:29, 346:1, 346:42, 347:20, 358:17, 363:40, 368:4, 374:22, 375:4, 375:11, 377:13</p> <p><b>matters</b> [33] - 330:41, 332:17, 332:27, 332:34, 332:39, 336:8, 337:26, 337:30, 338:19, 342:25, 347:18, 352:5, 352:26, 353:35, 354:1, 354:2, 355:3, 355:8, 355:28, 355:36, 355:41, 364:17, 366:2, 366:3, 369:35, 369:43, 373:3, 373:16, 373:19, 374:19, 374:25, 375:43, 379:6</p> <p><b>maximise</b> [1] - 359:7</p> <p><b>Maxwell</b> [5] - 346:16, 346:17, 346:30, 346:32, 346:39</p> <p><b>McLEAN</b> [1] - 379:16</p> <p><b>McLEAN-WILLIAMS</b> [1] - 379:16</p> <p><b>McNevin</b> [6] - 337:28, 338:14, 344:14, 346:27, 346:34, 346:38</p> <p><b>mean</b> [2] - 331:29, 374:5</p>	<p><b>meaning</b> [1] - 374:5</p> <p><b>meaningful</b> [1] - 362:20</p> <p><b>means</b> [1] - 360:28</p> <p><b>meant</b> [1] - 357:33</p> <p><b>measured</b> [1] - 364:28</p> <p><b>mechanisms</b> [1] - 357:21</p> <p><b>media</b> [11] - 332:22, 333:26, 337:21, 347:8, 351:2, 351:25, 352:13, 355:24, 356:2, 371:24</p> <p><b>medical</b> [1] - 356:18</p> <p><b>meeting</b> [3] - 336:21, 336:28, 348:22</p> <p><b>meetings</b> [3] - 331:14, 343:22, 362:25</p> <p><b>member</b> [2] - 335:42, 372:40</p> <p><b>members</b> [4] - 336:19, 336:24, 338:3, 361:12</p> <p><b>membership</b> [1] - 334:15</p> <p><b>memory</b> [6] - 354:24, 354:30, 354:33, 354:35, 365:22, 369:47</p> <p><b>mention</b> [3] - 337:30, 353:44, 370:15</p> <p><b>mentioned</b> [3] - 353:39, 353:42, 356:14</p> <p><b>merely</b> [1] - 376:38</p> <p><b>messaging</b> [1] - 361:35</p> <p><b>met</b> [3] - 348:28, 349:3, 364:9</p> <p><b>method</b> [57] - 330:25, 332:26, 332:29, 332:36, 332:37, 332:41, 332:45, 333:2, 333:34, 333:38, 334:41, 336:33, 337:3, 339:45, 339:47, 340:41, 342:20, 342:29, 343:8, 343:14, 343:47, 344:6, 344:20, 344:27, 344:28, 344:37, 345:11, 345:15, 345:18, 345:22, 345:24, 345:42, 345:46, 345:47, 346:29, 346:30, 346:32, 346:33, 346:34,</p>
<b>M</b>				
<p><b>Magistrates</b> [1] - 329:21</p> <p><b>magnetic</b> [1] - 366:28</p> <p><b>mail</b> [1] - 343:30</p> <p><b>mail-out</b> [1] - 343:30</p> <p><b>main</b> [2] - 333:24, 342:9</p> <p><b>maintain</b> [2] - 335:13, 335:16</p> <p><b>maintained</b> [1] - 370:37</p> <p><b>maintaining</b> [1] - 338:46</p> <p><b>major</b> [1] - 356:35</p> <p><b>manage</b> [1] - 334:9</p> <p><b>management</b> [5] - 335:43, 357:12, 357:24, 361:9, 362:5</p> <p><b>manager</b> [4] - 357:5, 357:6, 358:20, 364:42</p> <p><b>managing</b> [1] - 367:42</p> <p><b>manner</b> [2] - 331:43, 366:17</p> <p><b>manual</b> [25] - 332:26, 332:29, 334:41, 337:5, 339:25, 339:28, 340:1, 340:5, 340:9, 340:17, 340:31, 340:41, 342:17, 342:20, 343:44, 344:27, 344:28, 346:40, 346:43, 350:42, 350:43, 353:26, 366:15, 370:23, 370:24</p>				

<p>346:40, 346:41, 351:7, 353:11, 353:13, 355:12, 359:6, 365:16, 366:16, 368:13, 368:17, 369:11, 370:30, 371:2, 371:3, 371:14</p> <p><b>method's</b> [1] - 343:25</p> <p><b>methodology</b> [3] - 337:11, 351:26, 364:27</p> <p><b>methods</b> [19] - 337:5, 344:28, 344:41, 348:6, 348:11, 350:43, 353:27, 356:43, 357:19, 357:33, 357:40, 357:42, 359:5, 359:18, 359:31, 359:34, 370:24, 371:40, 372:10</p> <p><b>microlitres</b> [4] - 340:39, 340:42, 344:43, 344:44</p> <p><b>mid</b> [1] - 368:7</p> <p><b>middle</b> [1] - 345:19</p> <p><b>might</b> [13] - 334:11, 343:2, 352:6, 354:5, 354:44, 363:23, 365:35, 366:22, 369:39, 371:26, 374:5, 376:23, 376:43</p> <p><b>mind</b> [4] - 351:41, 355:1, 365:40, 373:25</p> <p><b>minimise</b> [2] - 338:43, 344:44</p> <p><b>ministerial</b> [1] - 338:27</p> <p><b>minute</b> [1] - 363:16</p> <p><b>minutes</b> [2] - 331:14, 371:17</p> <p><b>misapprehended</b> [1] - 377:40</p> <p><b>misconduct</b> [1] - 369:15</p> <p><b>misleading</b> [1] - 342:12</p> <p><b>misled</b> [1] - 333:40</p> <p><b>missed</b> [3] - 331:35, 378:33, 378:35</p> <p><b>mistaken</b> [2] - 354:27, 370:3</p> <p><b>Mitchell</b> [2] - 337:32, 361:13</p> <p><b>mixed</b> [1] - 345:2</p> <p><b>mixing</b> [2] - 345:3, 368:19</p> <p><b>modification</b> [6] - 340:10, 340:12, 340:31, 340:38, 341:42, 373:14</p> <p><b>modifications</b> [5] - 335:24, 340:8, 341:37, 341:39, 341:43</p> <p><b>modified</b> [10] - 339:45, 340:1, 340:5, 340:17, 342:2, 344:37, 344:39, 345:11, 345:22, 368:13</p> <p><b>modify</b> [2] - 335:22, 366:15</p> <p><b>module</b> [3] - 333:15, 343:39, 349:38</p> <p><b>Moeller</b> [1] - 362:3</p> <p><b>moment</b> [4] - 331:28, 359:45, 364:38, 375:29</p> <p><b>moments</b> [1] - 352:41</p> <p><b>Monday</b> [3] - 331:30, 331:40, 336:7</p> <p><b>months</b> [3] - 338:33, 343:45, 368:4</p> <p><b>morning</b> [3] - 330:6, 331:30, 331:40</p> <p><b>most</b> [8] - 338:23, 342:14, 342:38, 359:17, 366:25, 369:9, 373:10, 373:12</p> <p><b>mostly</b> [2] - 334:28, 334:29</p> <p><b>move</b> [3] - 338:38, 347:3, 365:10</p> <p><b>moved</b> [2] - 334:34, 364:47</p> <p><b>moves</b> [1] - 339:6</p> <p><b>MR</b> [60] - 330:3, 331:21, 331:47, 339:2, 340:23, 341:7, 341:12, 341:21, 341:28, 352:34, 355:35, 358:9, 358:19, 358:40, 359:1, 359:5, 359:20, 359:25, 359:45, 360:4, 360:11, 360:31, 363:28, 363:33, 363:37, 363:46, 364:4, 367:2, 367:19, 367:26, 367:31, 368:40, 371:23, 372:34, 372:39, 372:45, 373:40,</p>	<p>374:2, 374:12, 374:41, 375:2, 375:9, 375:13, 376:17, 376:23, 376:28, 376:33, 376:38, 377:22, 377:28, 377:34, 377:39, 378:5, 378:13, 378:18, 378:27, 378:47, 379:10, 379:16, 379:18</p> <p><b>multiple</b> [2] - 361:30, 365:45</p> <p><b>MultiPROBE</b> [23] - 331:2, 331:6, 332:7, 332:25, 334:42, 335:6, 335:9, 335:11, 335:16, 335:30, 335:39, 335:47, 340:14, 342:4, 343:14, 344:1, 344:8, 345:9, 346:18, 346:34, 346:41, 358:44, 368:28</p> <p><b>murder</b> [1] - 332:43</p> <p><b>MURDOCH</b> [1] - 379:18</p> <p><b>must</b> [6] - 332:34, 355:19, 358:30, 358:33, 368:25</p>	<p>351:34, 364:9, 366:21</p> <p><b>nevertheless</b> [1] - 342:40</p> <p><b>Neville</b> [3] - 335:41, 335:45, 338:12</p> <p><b>Neville's</b> [1] - 336:5</p> <p><b>new</b> [14] - 335:12, 339:39, 346:16, 346:30, 357:4, 357:9, 357:15, 357:41, 357:42, 359:14, 362:40, 364:13, 368:1, 371:39</p> <p><b>newly</b> [1] - 341:33</p> <p><b>next</b> [5] - 330:14, 336:28, 341:12, 341:47, 362:16</p> <p><b>nilly</b> [1] - 359:15</p> <p><b>nine</b> [1] - 347:23</p> <p><b>no-one</b> [1] - 342:42</p> <p><b>none</b> [1] - 342:37</p> <p><b>nonetheless</b> [2] - 366:17, 371:9</p> <p><b>normal</b> [2] - 335:14, 335:22</p> <p><b>notably</b> [1] - 340:25</p> <p><b>note</b> [2] - 331:16, 365:43</p> <p><b>noted</b> [10] - 342:32, 350:3, 352:44, 353:10, 355:20, 357:45, 358:19, 360:32, 361:6, 368:18</p> <p><b>notes</b> [2] - 335:31, 336:14</p> <p><b>nothing</b> [5] - 335:37, 376:4, 379:14, 379:16, 379:28</p> <p><b>notice</b> [4] - 336:42, 374:22, 375:29, 375:44</p> <p><b>notices</b> [5] - 331:8, 334:27, 375:30, 375:31</p> <p><b>notify</b> [1] - 331:32</p> <p><b>noting</b> [2] - 343:24, 350:13</p> <p><b>notion</b> [2] - 337:36, 342:10</p> <p><b>notwithstanding</b> [4] - 350:4, 350:40, 352:4, 367:43</p> <p><b>November</b> [7] - 329:25, 330:27, 336:31, 344:2, 347:24, 347:26, 368:34</p>	<p><b>nuclease</b> [1] - 367:8</p> <p><b>NucleoSpin</b> [1] - 344:28</p> <p><b>number</b> [15] - 330:47, 331:10, 333:20, 335:7, 335:19, 337:21, 337:23, 337:25, 347:37, 349:32, 350:35, 351:15, 351:24, 357:21, 361:5</p> <p><b>numerous</b> [1] - 372:12</p> <p><b>Nunc</b> [1] - 341:30</p> <p><b>NUNC</b> [1] - 341:30</p> <p><b>Nurthen</b> [18] - 336:6, 337:28, 338:14, 340:33, 342:33, 342:38, 342:44, 343:5, 343:19, 343:23, 344:14, 345:10, 345:15, 365:42, 366:25, 367:11, 367:13, 367:39</p> <p><b>Nurthen's</b> [2] - 341:3, 345:3</p> <p><b>nylon</b> [1] - 340:25</p>
<b>O</b>			
<p><b>observation</b> [5] - 352:40, 362:30, 363:37, 375:27, 378:29</p> <p><b>observations</b> [4] - 360:21, 362:7, 365:12, 368:46</p> <p><b>observed</b> [3] - 332:27, 335:33, 343:40</p> <p><b>obtain</b> [2] - 340:42, 374:23</p> <p><b>obtained</b> [2] - 345:14, 353:8</p> <p><b>obvious</b> [2] - 350:26, 350:41</p> <p><b>obviously</b> [3] - 358:4, 367:12, 367:14</p> <p><b>occasion</b> [2] - 335:29, 335:32</p> <p><b>occasions</b> [2] - 335:20, 363:44</p> <p><b>occur</b> [1] - 358:33</p> <p><b>occurred</b> [12] - 341:41, 350:13, 353:24, 353:34, 354:32, 354:34, 354:35, 365:18, 368:8, 369:33, 377:4, 377:42</p> <p><b>October</b> [41] - 330:27,</p>	<p><b>name</b> [1] - 332:5</p> <p><b>named</b> [3] - 334:24, 334:46, 342:1</p> <p><b>namely</b> [1] - 371:7</p> <p><b>Natasha</b> [2] - 337:32, 361:13</p> <p><b>nature</b> [5] - 351:46, 354:27, 368:21, 370:3, 377:43</p> <p><b>near</b> [1] - 342:19</p> <p><b>necessarily</b> [2] - 358:5, 373:45</p> <p><b>necessary</b> [10] - 341:14, 341:44, 346:46, 355:35, 359:16, 368:22, 368:27, 371:41, 372:17, 375:45</p> <p><b>need</b> [5] - 345:23, 368:41, 373:6, 373:13, 375:38</p> <p><b>needed</b> [3] - 344:20, 376:18, 378:8</p> <p><b>never</b> [6] - 343:5, 350:34, 351:33,</p>	<p><b>name</b> [1] - 332:5</p> <p><b>named</b> [3] - 334:24, 334:46, 342:1</p> <p><b>namely</b> [1] - 371:7</p> <p><b>Natasha</b> [2] - 337:32, 361:13</p> <p><b>nature</b> [5] - 351:46, 354:27, 368:21, 370:3, 377:43</p> <p><b>near</b> [1] - 342:19</p> <p><b>necessarily</b> [2] - 358:5, 373:45</p> <p><b>necessary</b> [10] - 341:14, 341:44, 346:46, 355:35, 359:16, 368:22, 368:27, 371:41, 372:17, 375:45</p> <p><b>need</b> [5] - 345:23, 368:41, 373:6, 373:13, 375:38</p> <p><b>needed</b> [3] - 344:20, 376:18, 378:8</p> <p><b>never</b> [6] - 343:5, 350:34, 351:33,</p>	<p><b>name</b> [1] - 332:5</p> <p><b>named</b> [3] - 334:24, 334:46, 342:1</p> <p><b>namely</b> [1] - 371:7</p> <p><b>Natasha</b> [2] - 337:32, 361:13</p> <p><b>nature</b> [5] - 351:46, 354:27, 368:21, 370:3, 377:43</p> <p><b>near</b> [1] - 342:19</p> <p><b>necessarily</b> [2] - 358:5, 373:45</p> <p><b>necessary</b> [10] - 341:14, 341:44, 346:46, 355:35, 359:16, 368:22, 368:27, 371:41, 372:17, 375:45</p> <p><b>need</b> [5] - 345:23, 368:41, 373:6, 373:13, 375:38</p> <p><b>needed</b> [3] - 344:20, 376:18, 378:8</p> <p><b>never</b> [6] - 343:5, 350:34, 351:33,</p>

<p>330:46, 333:13, 335:32, 336:7, 336:27, 336:36, 337:1, 337:15, 337:25, 338:5, 338:44, 339:2, 339:39, 342:30, 343:9, 343:13, 343:22, 343:23, 347:6, 348:23, 348:43, 348:47, 349:7, 349:18, 349:35, 350:14, 350:21, 350:41, 351:5, 352:35, 354:14, 361:11, 361:46, 363:12, 364:41, 368:34, 369:21, 370:21, 371:19, 377:6</p> <p><b>OF</b> [1] - 379:41</p> <p><b>off-deck</b> [7] - 344:14, 344:17, 344:43, 345:1, 346:17, 346:30, 368:19</p> <p><b>off-line</b> [1] - 344:26</p> <p><b>off-the-shelf</b> [2] - 340:5, 340:8</p> <p><b>offered</b> [1] - 335:10</p> <p><b>Office</b> [1] - 357:29</p> <p><b>Officer</b> [1] - 338:40</p> <p><b>offline</b> [1] - 336:1</p> <p><b>often</b> [5] - 331:10, 339:17, 362:23, 363:19, 365:25</p> <p><b>on"</b> [1] - 360:32</p> <p><b>on-deck</b> [2] - 344:8, 345:26</p> <p><b>onboarding</b> [1] - 364:47</p> <p><b>once</b> [3] - 347:45, 364:43, 368:3</p> <p><b>one</b> [29] - 331:16, 331:28, 331:35, 335:18, 335:29, 341:23, 341:42, 342:22, 342:42, 345:34, 349:25, 349:36, 354:10, 363:16, 367:14, 367:35, 373:25, 373:29, 373:34, 374:4, 374:5, 374:22, 374:41, 374:42, 376:38, 378:3, 378:38</p> <p><b>ones</b> [1] - 331:37</p> <p><b>onwards</b> [1] - 345:17</p> <p><b>open</b> [5] - 362:20, 366:6, 370:5,</p>	<p>370:45, 371:37</p> <p><b>opening</b> [1] - 339:23</p> <p><b>operated</b> [1] - 335:26</p> <p><b>operates</b> [2] - 340:35, 346:17</p> <p><b>operating</b> [2] - 339:36, 343:35</p> <p><b>operational</b> [1] - 337:4</p> <p><b>opinion</b> [19] - 332:33, 333:1, 333:30, 346:28, 347:22, 351:33, 352:10, 359:33, 360:22, 362:12, 362:22, 362:30, 365:5, 366:46, 366:47, 367:4, 368:37, 371:1, 378:20</p> <p><b>opinions</b> [1] - 338:19</p> <p><b>opportunity</b> [6] - 331:44, 337:28, 346:21, 360:20, 376:23, 376:25</p> <p><b>optimal</b> [1] - 359:6</p> <p><b>optimally</b> [1] - 343:36</p> <p><b>optimise</b> [3] - 343:25, 344:47, 367:45</p> <p><b>Options</b> [1] - 348:38</p> <p><b>OQL</b> [1] - 349:13</p> <p><b>oral</b> [22] - 330:9, 333:16, 334:13, 334:22, 334:25, 336:6, 336:31, 337:23, 338:23, 350:1, 350:31, 352:4, 354:23, 354:30, 356:30, 365:27, 365:34, 369:46, 370:37, 371:17, 371:45, 379:36</p> <p><b>orally</b> [2] - 376:33, 376:40</p> <p><b>order</b> [4] - 338:30, 359:7, 359:17, 371:47</p> <p><b>organisation</b> [1] - 343:4</p> <p><b>organisations</b> [1] - 356:24</p> <p><b>original</b> [4] - 358:33, 358:45, 372:18, 375:17</p> <p><b>otherwise</b> [3] - 331:44, 336:23, 347:15</p> <p><b>ought</b> [8] - 333:2, 333:33, 334:4, 341:40, 346:35, 347:16, 361:6,</p>	<p>365:36</p> <p><b>outline</b> [1] - 334:20</p> <p><b>outlined</b> [2] - 347:9, 360:32</p> <p><b>outset</b> [2] - 330:23, 376:44</p> <p><b>outside</b> [2] - 343:3, 347:32</p> <p><b>outsourced</b> [1] - 357:43</p> <p><b>overall</b> [1] - 339:13</p> <p><b>overcome</b> [1] - 344:18</p> <p><b>overhaul</b> [1] - 357:1</p> <p><b>overseas</b> [3] - 348:22, 348:39, 357:1</p> <p><b>oversee</b> [1] - 356:17</p> <p><b>overstatement</b> [2] - 351:40, 351:41</p> <p><b>owing</b> [2] - 345:22, 368:12</p> <p><b>own</b> [1] - 363:20</p>	<p>355:40, 359:31, 365:43, 379:32</p> <p><b>particularly</b> [1] - 358:22</p> <p><b>parties</b> [7] - 330:39, 331:1, 331:6, 331:12, 331:25, 373:5, 373:11</p> <p><b>parts</b> [1] - 352:45</p> <p><b>party</b> [1] - 331:30</p> <p><b>passage</b> [1] - 365:19</p> <p><b>past</b> [3] - 362:10, 362:43, 364:34</p> <p><b>PathWest</b> [1] - 332:11</p> <p><b>pause</b> [1] - 363:15</p> <p><b>paused</b> [1] - 378:18</p> <p><b>people</b> [3] - 356:23, 375:33, 376:18</p> <p><b>per</b> [2] - 345:13, 368:15</p> <p><b>perfect</b> [1] - 373:8</p> <p><b>perform</b> [2] - 340:34, 356:3</p> <p><b>performance</b> [5] - 339:14, 361:7, 361:10, 372:3, 372:5</p> <p><b>performed</b> [2] - 344:8, 345:36</p> <p><b>perhaps</b> [8] - 338:35, 352:1, 352:25, 367:6, 367:8, 373:26, 373:31, 377:34</p> <p><b>period</b> [15] - 330:35, 330:43, 334:37, 335:33, 338:35, 339:40, 343:44, 344:34, 347:23, 349:33, 349:44, 350:2, 350:7, 368:34, 369:18</p> <p><b>PerkinElmer</b> [2] - 335:6, 335:10</p> <p><b>person</b> [4] - 363:16, 363:21, 363:38, 363:39</p> <p><b>personal</b> [1] - 358:25</p> <p><b>personally</b> [1] - 335:19</p> <p><b>phase</b> [2] - 339:39, 347:41</p> <p><b>phrase</b> [4] - 351:12, 352:10, 370:33, 374:4</p> <p><b>phrasing</b> [3] - 352:9, 371:1, 377:13</p> <p><b>picks</b> [3] - 344:33, 352:40, 364:38</p> <p><b>piece</b> [1] - 362:15</p> <p><b>Pitcher</b> [1] - 335:5</p>	<p><b>pitcher</b> [1] - 335:9</p> <p><b>place</b> [5] - 338:25, 356:1, 357:36, 371:33, 379:30</p> <p><b>plain</b> [2] - 332:1, 372:3</p> <p><b>plainly</b> [2] - 332:24, 342:14</p> <p><b>plan</b> [1] - 371:33</p> <p><b>plans</b> [1] - 357:42</p> <p><b>plasticware</b> [2] - 341:29, 341:30</p> <p><b>platform</b> [2] - 331:2, 332:7</p> <p><b>pm</b> [1] - 349:35</p> <p><b>point</b> [13] - 338:26, 345:40, 346:20, 362:16, 364:38, 366:21, 373:45, 374:15, 374:41, 376:38, 378:2, 378:39, 378:44</p> <p><b>pointed</b> [2] - 342:8, 342:9</p> <p><b>points</b> [1] - 338:11</p> <p><b>Police</b> [1] - 343:4</p> <p><b>polyester</b> [1] - 340:26</p> <p><b>pool</b> [1] - 336:15</p> <p><b>posed</b> [3] - 333:28, 352:36, 371:8</p> <p><b>position</b> [6] - 361:47, 362:10, 363:40, 364:8, 374:24, 374:27</p> <p><b>positions</b> [2] - 334:36, 364:43</p> <p><b>positive</b> [2] - 357:22, 362:46</p> <p><b>possibilities</b> [2] - 367:24, 373:34</p> <p><b>possible</b> [4] - 331:33, 338:35, 345:35, 367:10</p> <p><b>possibly</b> [2] - 353:28, 373:29</p> <p><b>potential</b> [3] - 336:18, 339:10, 348:33</p> <p><b>PowerPoint</b> [1] - 331:14</p> <p><b>practice</b> [13] - 345:39, 348:8, 348:11, 348:13, 348:34, 349:15, 351:8, 351:12, 351:22, 351:43, 352:31, 362:31, 370:34</p> <p><b>practice"</b> [1] - 370:31</p> <p><b>practices</b> [3] - 361:15, 361:23, 362:43</p> <p><b>pre</b> [1] - 378:42</p> <p><b>pre-dates</b> [1] - 378:42</p>
<b>P</b>				
<p><b>page</b> [1] - 376:26</p> <p><b>pages</b> [2] - 331:22, 349:43</p> <p><b>paper</b> [2] - 371:25, 371:28</p> <p><b>Paper</b> [1] - 348:38</p> <p><b>paragraph</b> [8] - 338:31, 351:6, 360:5, 361:18, 376:45, 376:46, 376:47, 377:1</p> <p><b>paragraphs</b> [1] - 364:21</p> <p><b>parcel</b> [1] - 349:44</p> <p><b>Parry</b> [2] - 337:39, 361:47</p> <p><b>part</b> [21] - 330:28, 331:41, 333:14, 333:46, 334:36, 335:34, 337:25, 338:31, 338:34, 339:6, 339:33, 342:32, 342:34, 342:35, 342:44, 345:8, 352:39, 366:33, 368:14, 374:42, 379:36</p> <p><b>participants</b> [1] - 338:13</p> <p><b>participated</b> [2] - 330:40, 373:6</p> <p><b>particular</b> [12] - 330:29, 331:31, 338:11, 338:38, 339:24, 346:43, 353:18, 353:43,</p>	<p>365:36</p> <p><b>outline</b> [1] - 334:20</p> <p><b>outlined</b> [2] - 347:9, 360:32</p> <p><b>outset</b> [2] - 330:23, 376:44</p> <p><b>outside</b> [2] - 343:3, 347:32</p> <p><b>outsourced</b> [1] - 357:43</p> <p><b>overall</b> [1] - 339:13</p> <p><b>overcome</b> [1] - 344:18</p> <p><b>overhaul</b> [1] - 357:1</p> <p><b>overseas</b> [3] - 348:22, 348:39, 357:1</p> <p><b>oversee</b> [1] - 356:17</p> <p><b>overstatement</b> [2] - 351:40, 351:41</p> <p><b>owing</b> [2] - 345:22, 368:12</p> <p><b>own</b> [1] - 363:20</p>	<p>355:40, 359:31, 365:43, 379:32</p> <p><b>particularly</b> [1] - 358:22</p> <p><b>parties</b> [7] - 330:39, 331:1, 331:6, 331:12, 331:25, 373:5, 373:11</p> <p><b>parts</b> [1] - 352:45</p> <p><b>party</b> [1] - 331:30</p> <p><b>passage</b> [1] - 365:19</p> <p><b>past</b> [3] - 362:10, 362:43, 364:34</p> <p><b>PathWest</b> [1] - 332:11</p> <p><b>pause</b> [1] - 363:15</p> <p><b>paused</b> [1] - 378:18</p> <p><b>people</b> [3] - 356:23, 375:33, 376:18</p> <p><b>per</b> [2] - 345:13, 368:15</p> <p><b>perfect</b> [1] - 373:8</p> <p><b>perform</b> [2] - 340:34, 356:3</p> <p><b>performance</b> [5] - 339:14, 361:7, 361:10, 372:3, 372:5</p> <p><b>performed</b> [2] - 344:8, 345:36</p> <p><b>perhaps</b> [8] - 338:35, 352:1, 352:25, 367:6, 367:8, 373:26, 373:31, 377:34</p> <p><b>period</b> [15] - 330:35, 330:43, 334:37, 335:33, 338:35, 339:40, 343:44, 344:34, 347:23, 349:33, 349:44, 350:2, 350:7, 368:34, 369:18</p> <p><b>PerkinElmer</b> [2] - 335:6, 335:10</p> <p><b>person</b> [4] - 363:16, 363:21, 363:38, 363:39</p> <p><b>personal</b> [1] - 358:25</p> <p><b>personally</b> [1] - 335:19</p> <p><b>phase</b> [2] - 339:39, 347:41</p> <p><b>phrase</b> [4] - 351:12, 352:10, 370:33, 374:4</p> <p><b>phrasing</b> [3] - 352:9, 371:1, 377:13</p> <p><b>picks</b> [3] - 344:33, 352:40, 364:38</p> <p><b>piece</b> [1] - 362:15</p> <p><b>Pitcher</b> [1] - 335:5</p>	<p><b>pitcher</b> [1] - 335:9</p> <p><b>place</b> [5] - 338:25, 356:1, 357:36, 371:33, 379:30</p> <p><b>plain</b> [2] - 332:1, 372:3</p> <p><b>plainly</b> [2] - 332:24, 342:14</p> <p><b>plan</b> [1] - 371:33</p> <p><b>plans</b> [1] - 357:42</p> <p><b>plasticware</b> [2] - 341:29, 341:30</p> <p><b>platform</b> [2] - 331:2, 332:7</p> <p><b>pm</b> [1] - 349:35</p> <p><b>point</b> [13] - 338:26, 345:40, 346:20, 362:16, 364:38, 366:21, 373:45, 374:15, 374:41, 376:38, 378:2, 378:39, 378:44</p> <p><b>pointed</b> [2] - 342:8, 342:9</p> <p><b>points</b> [1] - 338:11</p> <p><b>Police</b> [1] - 343:4</p> <p><b>polyester</b> [1] - 340:26</p> <p><b>pool</b> [1] - 336:15</p> <p><b>posed</b> [3] - 333:28, 352:36, 371:8</p> <p><b>position</b> [6] - 361:47, 362:10, 363:40, 364:8, 374:24, 374:27</p> <p><b>positions</b> [2] - 334:36, 364:43</p> <p><b>positive</b> [2] - 357:22, 362:46</p> <p><b>possibilities</b> [2] - 367:24, 373:34</p> <p><b>possible</b> [4] - 331:33, 338:35, 345:35, 367:10</p> <p><b>possibly</b> [2] - 353:28, 373:29</p> <p><b>potential</b> [3] - 336:18, 339:10, 348:33</p> <p><b>PowerPoint</b> [1] - 331:14</p> <p><b>practice</b> [13] - 345:39, 348:8, 348:11, 348:13, 348:34, 349:15, 351:8, 351:12, 351:22, 351:43, 352:31, 362:31, 370:34</p> <p><b>practice"</b> [1] - 370:31</p> <p><b>practices</b> [3] - 361:15, 361:23, 362:43</p> <p><b>pre</b> [1] - 378:42</p> <p><b>pre-dates</b> [1] - 378:42</p>	

<p><b>precedes</b> [1] - 378:42</p> <p><b>precise</b> [1] - 358:12</p> <p><b>precision</b> [2] - 343:6, 358:15</p> <p><b>Premier</b> [1] - 331:4</p> <p><b>premises</b> [2] - 335:15, 375:41</p> <p><b>preparation</b> [1] - 375:20</p> <p><b>prepare</b> [2] - 354:10, 376:3</p> <p><b>prepared</b> [5] - 347:24, 349:2, 350:20, 371:25, 371:28</p> <p><b>preparing</b> [1] - 347:12</p> <p><b>presence</b> [1] - 340:11</p> <p><b>present</b> [3] - 341:41, 344:33, 365:7</p> <p><b>presentations</b> [1] - 331:15</p> <p><b>presented</b> [1] - 330:45</p> <p><b>presently</b> [3] - 371:34, 372:30, 373:45</p> <p><b>pressure</b> [1] - 339:31</p> <p><b>presumptive</b> [1] - 336:3</p> <p><b>previous</b> [3] - 344:39, 362:5, 363:44</p> <p><b>previously</b> [1] - 356:14</p> <p><b>prime</b> [1] - 367:7</p> <p><b>principal</b> [1] - 338:18</p> <p><b>priority</b> [1] - 357:31</p> <p><b>proactive</b> [1] - 364:28</p> <p><b>problem</b> [4] - 350:45, 354:17, 365:7, 370:26</p> <p><b>problematic</b> [1] - 350:23</p> <p><b>problems</b> [10] - 340:27, 355:1, 358:3, 365:5, 366:17, 366:20, 369:24, 370:20, 371:14, 378:20</p> <p><b>procedure</b> [3] - 342:16, 342:17, 370:8</p> <p><b>procedures</b> [3] - 353:41, 356:43, 357:40</p> <p><b>process</b> [20] - 332:9, 339:41, 340:5, 340:9, 340:17, 340:24, 340:31, 341:25, 344:7, 345:1, 345:9, 345:26, 345:27, 345:30, 354:13, 357:11, 357:16,</p>	<p>362:34, 368:15, 368:42</p> <p><b>processed</b> [1] - 347:47</p> <p><b>processes</b> [9] - 334:39, 348:6, 348:12, 356:38, 357:32, 357:37, 361:16, 364:27, 369:9</p> <p><b>procurement</b> [1] - 357:41</p> <p><b>produce</b> [5] - 331:8, 335:23, 336:3, 374:23, 375:31</p> <p><b>produced</b> [10] - 331:31, 331:37, 332:4, 334:27, 334:29, 339:20, 341:14, 342:44, 346:39, 350:15</p> <p><b>producing</b> [3] - 337:25, 339:42, 345:47</p> <p><b>production</b> [1] - 336:47</p> <p><b>products</b> [1] - 347:40</p> <p><b>professor</b> [13] - 333:19, 333:23, 336:34, 349:20, 353:42, 354:15, 356:3, 360:23, 361:21, 363:17, 371:13, 372:22, 372:24</p> <p><b>Professor</b> [73] - 330:19, 333:7, 333:9, 333:27, 333:42, 333:46, 336:25, 336:30, 336:44, 336:46, 337:2, 337:8, 337:10, 337:14, 337:19, 337:35, 337:44, 338:17, 345:36, 347:3, 347:28, 348:36, 349:27, 350:4, 350:19, 350:38, 353:18, 353:21, 353:39, 353:47, 354:4, 354:10, 354:16, 354:18, 354:23, 354:47, 355:9, 355:26, 355:38, 355:43, 356:26, 360:26, 360:40, 360:41, 361:2, 361:6, 361:14, 361:32,</p>	<p>361:36, 362:19, 362:28, 362:32, 363:3, 363:15, 363:39, 364:10, 364:11, 364:25, 369:20, 369:34, 369:38, 369:41, 369:46, 370:6, 370:14, 370:19, 370:29, 370:47, 371:5, 371:32, 372:29, 377:6, 377:11</p> <p><b>professor's</b> [2] - 336:47, 349:26</p> <p><b>profile</b> [2] - 336:3, 353:9</p> <p><b>profiling</b> [1] - 346:2</p> <p><b>program</b> [1] - 357:7</p> <p><b>progress</b> [3] - 334:38, 356:26, 365:1</p> <p><b>progressive</b> [1] - 374:37</p> <p><b>progressively</b> [1] - 361:31</p> <p><b>Project</b> [103] - 329:15, 330:15, 332:1, 332:5, 332:18, 332:21, 332:23, 332:34, 332:36, 333:8, 333:22, 333:31, 333:46, 334:25, 334:30, 334:37, 334:45, 335:1, 335:2, 336:32, 337:12, 337:22, 337:24, 337:35, 338:5, 338:20, 339:10, 339:19, 339:26, 339:40, 339:42, 339:43, 339:44, 339:47, 341:47, 342:1, 342:5, 342:7, 342:26, 342:37, 343:11, 344:6, 344:10, 344:11, 346:14, 346:15, 346:20, 346:28, 346:38, 347:1, 347:5, 347:11, 349:8, 350:8, 350:11, 350:13, 350:22, 350:29, 350:44, 351:4, 351:16, 351:25, 352:34, 352:44, 353:4, 353:12, 353:20, 353:23, 353:27, 353:43,</p>	<p>354:28, 354:31, 355:1, 355:20, 355:29, 358:14, 358:44, 365:2, 365:6, 365:15, 365:18, 365:45, 368:26, 368:47, 369:2, 369:14, 369:15, 369:21, 369:23, 369:30, 370:7, 370:15, 370:21, 370:25, 371:2, 371:14, 371:25, 371:46, 374:14, 377:20</p> <p><b>project</b> [23] - 343:22, 344:38, 350:26, 351:28, 351:29, 351:32, 351:33, 351:38, 351:42, 353:1, 353:7, 353:8, 353:9, 357:9, 357:10, 364:45, 365:17, 365:21, 365:32, 365:47, 368:24, 368:33</p> <p><b>project's</b> [1] - 343:19</p> <p><b>projects</b> [6] - 344:6, 344:9, 344:13, 344:15, 357:11, 360:41</p> <p><b>Promega</b> [1] - 340:41</p> <p><b>Promega's</b> [1] - 339:22</p> <p><b>promise</b> [1] - 376:36</p> <p><b>prompted</b> [1] - 371:28</p> <p><b>proper</b> [7] - 336:32, 340:7, 360:12, 364:35, 365:40, 369:6, 370:38</p> <p><b>properly</b> [4] - 345:21, 345:23, 345:37, 379:24</p> <p><b>proposal</b> [2] - 353:1, 357:10</p> <p><b>proposals</b> [1] - 353:7</p> <p><b>proposed</b> [2] - 348:21, 371:15</p> <p><b>proposition</b> [1] - 363:31</p> <p><b>prosecution</b> [1] - 332:39</p> <p><b>Proteinase</b> [3] - 340:11, 340:35, 367:8</p> <p><b>protocol</b> [13] - 332:24, 332:30, 338:8, 339:5, 339:8, 339:13, 339:16, 339:22, 340:1,</p>	<p>340:13, 340:32, 340:40, 342:2</p> <p><b>protocols</b> [2] - 335:13, 341:34</p> <p><b>provide</b> [10] - 330:14, 338:18, 347:22, 347:36, 349:14, 353:3, 365:10, 365:43, 371:26, 371:47</p> <p><b>provided</b> [24] - 334:26, 335:45, 336:2, 336:41, 337:19, 337:40, 344:7, 347:6, 348:41, 349:3, 349:6, 349:28, 349:29, 349:35, 349:42, 351:5, 351:17, 353:1, 353:10, 356:27, 360:19, 361:24, 365:34, 369:31</p> <p><b>provides</b> [2] - 337:22, 356:11</p> <p><b>providing</b> [1] - 333:22</p> <p><b>provision</b> [4] - 348:26, 349:19, 349:24, 359:35</p> <p><b>proximity</b> [2] - 363:17, 363:38</p> <p><b>prudent</b> [1] - 359:20</p> <p><b>psychologist</b> [1] - 357:24</p> <p><b>public</b> [6] - 332:3, 334:5, 334:8, 347:17, 355:41, 371:47</p> <p><b>publication</b> [1] - 333:43</p> <p><b>publicly</b> [1] - 333:36</p> <p><b>purchasers</b> [3] - 335:11, 335:12, 335:22</p> <p><b>purported</b> [2] - 342:28, 350:45</p> <p><b>purpose</b> [7] - 332:37, 338:18, 339:25, 344:35, 371:41, 373:27, 379:25</p> <p><b>purposes</b> [1] - 333:19</p> <p><b>pursuant</b> [1] - 344:38</p> <p><b>put</b> [7] - 334:16, 336:30, 366:1, 370:22, 372:45, 373:35, 376:25</p>
<b>Q</b>				
<b>QFS</b> [1] - 357:39				



<p><b>QHFS</b> [1] - 362:5  <b>QHFS</b> [7] - 330:26, 332:11, 334:32, 335:18, 335:26, 335:44, 336:2  <b>QHFS</b>" [1] - 349:16  <b>QIAsymphony</b> [1] - 344:2  <b>QPS</b> [6] - 335:43, 335:47, 336:2, 336:8, 357:29, 357:34  <b>quality</b> [18] - 335:43, 339:14, 341:4, 341:19, 345:13, 346:8, 346:11, 357:6, 359:30, 359:34, 360:34, 364:26, 364:43, 364:45, 364:47, 369:7, 372:10  <b>Quartermain</b> [1] - 362:3  <b>Queensland</b> [13] - 331:3, 331:11, 331:24, 334:6, 336:13, 343:4, 356:12, 361:26, 362:41, 363:8, 363:14, 364:7, 373:13  <b>Queensland's</b> [2] - 332:39, 333:3  <b>questions</b> [8] - 333:20, 333:28, 345:46, 347:10, 358:31, 365:47, 371:8, 375:6  <b>quite</b> [7] - 344:39, 351:31, 367:46, 375:22, 375:29, 377:28, 377:39  <b>quo</b> [1] - 361:35  <b>quote</b> [9] - 332:17, 346:9, 348:5, 361:19, 362:17, 366:29, 367:31, 370:41, 370:43</p>	<p>355:8, 355:12, 355:14, 355:19, 355:25, 358:7, 358:11, 362:16, 366:2, 367:5, 367:11, 367:41, 371:24, 378:40  <b>raises</b> [1] - 346:7  <b>ran</b> [1] - 335:36  <b>random</b> [1] - 358:13  <b>range</b> [7] - 336:30, 336:36, 340:24, 356:20, 356:24, 365:44, 374:16  <b>rape</b> [1] - 332:43  <b>rate</b> [4] - 342:19, 345:12, 368:14, 368:19  <b>rates</b> [1] - 336:2  <b>rather</b> [4] - 342:14, 365:37, 375:6, 376:34  <b>rayon</b> [1] - 342:21  <b>re</b> [10] - 336:27, 344:24, 344:29, 344:37, 345:16, 345:22, 345:37, 345:40, 368:7, 374:13  <b>re-crafting</b> [1] - 374:13  <b>re-examined</b> [1] - 336:27  <b>re-implement</b> [1] - 345:22  <b>re-implementation</b> [6] - 344:24, 344:29, 345:16, 345:37, 345:40, 368:7  <b>re-implemented</b> [1] - 344:37  <b>reach</b> [1] - 368:23  <b>reached</b> [3] - 366:21, 368:12, 368:45  <b>reaction</b> [1] - 352:16  <b>read</b> [7] - 330:12, 331:16, 348:4, 350:21, 374:17, 379:21  <b>reader</b> [1] - 352:15  <b>readily</b> [4] - 350:31, 361:32, 365:31, 369:26  <b>reading</b> [2] - 374:6, 374:10  <b>ready</b> [1] - 343:20  <b>real</b> [1] - 360:35  <b>really</b> [5] - 375:2, 375:5, 377:24, 377:32, 378:25</p>	<p><b>reason</b> [8] - 346:24, 347:8, 366:26, 371:27, 371:29, 374:17, 374:43, 378:18  <b>rebuild</b> [1] - 360:33  <b>rebuilding</b> [3] - 356:7, 360:38, 360:45  <b>receipt</b> [1] - 349:45  <b>received</b> [14] - 330:10, 330:21, 330:47, 331:3, 331:11, 331:12, 331:21, 337:31, 338:12, 343:5, 348:39, 361:8, 363:11, 364:41  <b>recent</b> [3] - 332:3, 333:42, 365:22  <b>recently</b> [2] - 338:12, 371:15  <b>recipients</b> [1] - 331:9  <b>recognised</b> [4] - 341:1, 354:42, 365:31, 371:35  <b>recognition</b> [1] - 330:40  <b>recollection</b> [13] - 334:40, 336:45, 343:28, 353:31, 353:44, 354:1, 354:37, 354:40, 354:44, 365:20, 367:12, 367:29, 369:34  <b>recollections</b> [3] - 337:8, 365:25, 365:28  <b>recommendation</b> [22] - 334:2, 334:4, 338:34, 338:39, 342:41, 364:44, 365:4, 371:15, 371:26, 371:43, 372:16, 373:4, 373:7, 373:8, 373:14, 373:15, 373:20, 373:35, 373:37, 373:38, 374:13, 374:26  <b>recommendations</b> [22] - 330:21, 332:16, 334:1, 346:36, 349:14, 351:33, 351:39, 356:8, 356:9, 359:27, 360:24, 361:24, 362:38, 362:42, 364:16, 364:20, 365:13, 372:12,</p>	<p>372:23, 373:1, 373:3, 374:36  <b>recommended</b> [10] - 332:30, 332:35, 332:37, 332:41, 336:25, 338:39, 339:22, 340:41, 362:26, 362:33  <b>recommending</b> [1] - 374:30  <b>record</b> [3] - 375:19, 375:23, 376:1  <b>recording</b> [2] - 375:43, 379:32  <b>records</b> [1] - 365:26  <b>recounted</b> [1] - 335:23  <b>recounts</b> [2] - 335:21, 336:45  <b>recover</b> [2] - 342:21, 346:34  <b>recovered</b> [1] - 332:26  <b>recovery</b> [9] - 332:36, 340:46, 345:12, 346:31, 356:40, 357:36, 359:7, 368:14, 368:19  <b>rectification</b> [1] - 348:2  <b>reduce</b> [2] - 339:32, 344:41  <b>reduced</b> [1] - 344:43  <b>Reeves</b> [4] - 337:18, 338:13, 363:11, 363:43  <b>refer</b> [1] - 331:38  <b>reference</b> [13] - 330:7, 332:2, 334:12, 338:24, 338:35, 341:18, 342:33, 351:11, 355:47, 359:40, 370:32, 370:45  <b>referenced</b> [1] - 379:7  <b>references</b> [3] - 332:15, 336:1, 360:12  <b>referred</b> [8] - 349:1, 351:4, 351:25, 352:35, 355:29, 365:17, 376:47, 377:25  <b>referring</b> [2] - 351:13, 351:41  <b>refers</b> [2] - 335:46, 337:21  <b>reflect</b> [5] - 352:15, 360:21, 368:46, 374:30  <b>reflected</b> [2] - 352:29, 369:16</p>	<p><b>reflecting</b> [1] - 365:38  <b>reflection</b> [1] - 351:36  <b>reform</b> [1] - 362:39  <b>reforms</b> [6] - 356:28, 356:31, 356:35, 359:26, 359:32, 372:22  <b>regard</b> [8] - 340:32, 345:2, 346:44, 358:19, 368:21, 373:25, 376:2, 379:5  <b>regarding</b> [15] - 332:18, 336:7, 342:26, 346:27, 346:44, 347:18, 349:4, 349:31, 349:33, 350:5, 355:11, 355:16, 355:27, 371:24, 373:22  <b>reintroduce</b> [1] - 345:9  <b>reintroduced</b> [2] - 345:18, 368:17  <b>reintroducing</b> [1] - 344:36  <b>reintroduction</b> [1] - 336:33  <b>rejects</b> [2] - 355:39, 355:40  <b>related</b> [2] - 367:7, 374:15  <b>relating</b> [4] - 345:23, 354:11, 359:41, 374:24  <b>relation</b> [5] - 330:3, 332:20, 348:6, 365:11, 374:2  <b>relationships</b> [1] - 357:47  <b>relatively</b> [2] - 336:16, 366:13  <b>release</b> [2] - 345:5, 366:34  <b>released</b> [2] - 341:33, 357:33  <b>relevant</b> [7] - 331:25, 331:42, 333:44, 347:47, 351:6, 355:46, 377:14  <b>relevantly</b> [2] - 347:10, 362:6  <b>reliability</b> [2] - 354:6, 369:40  <b>reliable</b> [1] - 357:34  <b>relied</b> [1] - 331:25  <b>rely</b> [1] - 379:19  <b>remain</b> [1] - 363:6  <b>remains</b> [1] - 346:13  <b>removal</b> [1] - 366:27</p>
<b>R</b>				
<p><b>raise</b> [6] - 331:45, 357:25, 359:39, 362:10, 363:1, 367:10  <b>raised</b> [23] - 332:18, 333:7, 333:14, 333:26, 338:11, 346:20, 347:10, 349:1, 353:42,</p>				

<p><b>repeat</b> [1] - 364:7  <b>repeats</b> [2] - 334:28, 334:29  <b>replacement</b> [1] - 339:15  <b>report</b> [141] - 332:24, 332:28, 332:30, 333:13, 333:14, 333:17, 333:19, 333:22, 333:23, 333:31, 333:43, 334:25, 334:45, 335:2, 336:47, 337:12, 337:15, 338:27, 338:39, 339:10, 339:20, 339:34, 339:42, 339:43, 339:47, 342:1, 342:7, 342:9, 342:14, 342:15, 342:19, 342:40, 342:45, 343:8, 343:11, 345:7, 346:14, 347:1, 347:5, 347:7, 347:12, 347:14, 347:21, 347:37, 348:21, 348:42, 349:2, 349:4, 349:8, 349:9, 349:13, 349:17, 349:19, 349:26, 349:31, 349:36, 349:38, 349:45, 350:8, 350:11, 350:12, 350:13, 350:15, 350:19, 350:21, 350:22, 350:26, 350:39, 350:42, 350:44, 350:45, 351:4, 351:5, 351:11, 351:13, 351:16, 351:21, 351:26, 351:37, 351:38, 351:46, 352:5, 352:7, 352:17, 352:22, 352:25, 352:34, 352:35, 352:44, 353:20, 353:39, 353:43, 354:9, 354:14, 354:33, 355:13, 355:21, 355:22, 355:29, 355:46, 356:1, 356:8, 356:10, 359:28, 359:32, 362:26, 364:21, 365:45, 368:12, 369:21, 369:22, 369:23, 370:15,</p>	<p>370:21, 370:22, 370:25, 370:26, 370:30, 370:33, 370:39, 370:40, 370:42, 370:45, 370:47, 371:3, 371:6, 371:25, 372:13, 372:23, 373:28, 377:8, 377:12, 377:13, 378:34, 379:26, 379:37  <b>report</b>" [1] - 350:29  <b>report's</b> [1] - 333:24  <b>reported</b> [5] - 332:22, 339:20, 343:40, 347:14, 349:40  <b>reporting</b> [3] - 339:27, 339:44, 357:25  <b>reports</b> [8] - 331:15, 333:11, 347:8, 347:24, 348:28, 355:15, 355:19, 377:37  <b>representing</b> [1] - 376:9  <b>reputable</b> [1] - 366:9  <b>repute</b> [1] - 338:36  <b>required</b> [9] - 330:34, 348:1, 348:29, 353:7, 362:25, 366:43, 367:33, 371:46, 375:22  <b>requirement</b> [1] - 357:12  <b>requirements</b> [1] - 359:31  <b>requires</b> [2] - 334:18, 371:43  <b>research</b> [2] - 357:42, 358:1  <b>reserve</b> [1] - 379:30  <b>resin</b> [2] - 345:2, 345:4  <b>resolution</b> [5] - 333:16, 344:30, 344:34, 348:9, 364:30  <b>resolutions</b> [1] - 363:3  <b>resolve</b> [1] - 346:47  <b>resolved</b> [3] - 335:31, 343:46, 368:7  <b>resolving</b> [1] - 368:6  <b>respect</b> [23] - 334:40, 337:9, 347:1, 349:15, 349:18, 350:19, 355:24, 356:31, 358:29, 358:37, 358:43, 364:20, 365:15,</p>	<p>365:32, 366:2, 366:26, 369:20, 370:8, 370:10, 371:12, 372:15, 373:11, 378:21  <b>respond</b> [2] - 331:10, 337:28  <b>responded</b> [3] - 336:34, 337:16, 352:16  <b>responding</b> [1] - 336:43  <b>responds</b> [2] - 336:5, 337:23  <b>response</b> [10] - 334:26, 336:42, 347:22, 348:34, 352:32, 353:32, 358:24, 371:17, 375:31, 376:14  <b>responses</b> [3] - 337:26, 365:47, 376:3  <b>responsibilities</b> [1] - 335:8  <b>responsibility</b> [4] - 335:25, 358:25, 359:42, 366:4  <b>responsible</b> [1] - 333:1  <b>responsive</b> [5] - 338:19, 352:14, 360:16, 361:41, 362:20  <b>rest</b> [1] - 379:37  <b>restore</b> [2] - 333:3, 334:5  <b>result</b> [3] - 330:9, 334:22, 364:40  <b>resulted</b> [2] - 341:13, 359:33  <b>results</b> [15] - 335:23, 337:12, 342:6, 342:8, 342:16, 343:12, 346:2, 346:22, 353:4, 353:9, 354:6, 354:43, 357:33, 359:35, 369:40  <b>resumed</b> [2] - 337:26, 338:13  <b>retested</b> [2] - 368:41, 374:39  <b>retesting</b> [6] - 337:36, 358:33, 359:5, 368:25, 371:45, 372:17  <b>reticence</b> [1] - 374:41  <b>retired</b> [1] - 336:12  <b>retrospective</b> [1] -</p>	<p>347:46  <b>return</b> [2] - 336:10, 364:8  <b>reveal</b> [3] - 343:6, 343:12, 365:27  <b>revealed</b> [1] - 332:24  <b>reveals</b> [1] - 378:21  <b>reverted</b> [1] - 343:44  <b>review</b> [18] - 332:3, 333:21, 335:2, 338:1, 348:40, 349:11, 349:28, 349:43, 350:3, 350:6, 350:18, 356:42, 358:29, 361:23, 362:42, 365:2, 372:15, 372:16  <b>reviewed</b> [7] - 350:8, 350:12, 350:15, 350:16, 354:25, 370:2, 371:16  <b>reviewing</b> [5] - 357:39, 365:26, 369:23, 371:33, 374:25  <b>reviews</b> [1] - 356:39  <b>revised</b> [1] - 349:45  <b>revision</b> [1] - 357:15  <b>revisit</b> [1] - 374:38  <b>revitalised</b> [1] - 364:14  <b>Revvity</b> [1] - 331:5  <b>rewording</b> [1] - 373:37  <b>Rhiannon</b> [1] - 364:42  <b>Rhys</b> [2] - 337:39, 361:47  <b>RICE</b> [1] - 376:28  <b>rich</b> [1] - 343:16  <b>rigorous</b> [1] - 341:44  <b>rigour</b> [1] - 369:6  <b>Rika</b> [1] - 362:4  <b>rise</b> [2] - 341:2, 358:16  <b>risk</b> [2] - 344:44, 377:40  <b>roadmap</b> [1] - 362:38  <b>robot</b> [1] - 346:16  <b>robotic</b> [2] - 346:30, 346:32  <b>robots</b> [1] - 357:42  <b>robust</b> [3] - 357:10, 357:27, 360:4  <b>role</b> [7] - 334:46, 347:20, 355:30, 356:4, 356:6, 356:11, 371:39  <b>roles</b> [1] - 335:7  <b>room</b> [1] - 375:21  <b>routine</b> [1] - 341:39  <b>routinely</b> [1] - 344:40</p>	<p><b>Rubagotti</b> [1] - 329:35  <b>rubbish</b> [1] - 351:28  <b>run</b>" [1] - 367:45</p>
<b>S</b>				
<p><b>safe</b> [2] - 357:27, 360:5  <b>sake</b> [1] - 378:5  <b>saliently</b> [1] - 369:10  <b>sample</b> [1] - 345:31  <b>samples</b> [26] - 330:31, 336:3, 340:24, 340:28, 342:23, 343:15, 345:12, 347:42, 347:46, 348:1, 348:17, 352:38, 355:16, 358:34, 358:42, 358:45, 359:6, 367:44, 368:25, 368:40, 371:33, 371:45, 372:16, 372:18, 374:38  <b>satisfactorily</b> [1] - 340:35  <b>satisfied</b> [1] - 368:32  <b>SC</b> [4] - 329:29, 329:34, 336:12, 356:15  <b>scene</b> [1] - 342:23  <b>Science</b> [4] - 332:12, 334:6, 347:30, 362:40  <b>science</b> [4] - 333:4, 351:13, 351:22, 370:34  <b>science-speak</b> [3] - 351:13, 351:22, 370:34  <b>Sciences</b> [1] - 332:13  <b>scientific</b> [22] - 332:45, 338:46, 340:7, 351:18, 352:10, 352:17, 352:23, 353:3, 357:27, 358:32, 360:4, 362:12, 362:21, 362:22, 362:31, 363:2, 363:4, 364:26, 367:9, 369:6, 371:1, 371:6  <b>scientifically</b> [5] - 341:44, 351:20, 351:29, 366:10, 368:43  <b>scientist</b> [5] - 334:33, 337:39, 362:1, 362:3, 367:42</p>				

<p><b>scientists</b> [33] - 330:16, 332:34, 332:37, 332:41, 334:30, 336:16, 337:24, 337:41, 338:5, 338:20, 339:9, 339:12, 339:19, 339:41, 342:37, 356:46, 358:24, 361:9, 362:6, 365:15, 365:20, 365:24, 366:12, 366:18, 366:19, 368:6, 368:47, 369:6, 369:8, 369:14, 372:26, 372:29, 379:18</p> <p><b>scientists'</b> [3] - 330:15, 338:1, 366:6</p> <p><b>scope</b> [6] - 330:8, 330:24, 330:28, 346:18, 368:21</p> <p><b>Scott</b> [2] - 337:32, 361:13</p> <p><b>scratch</b> [1] - 360:34</p> <p><b>seals</b> [1] - 347:40</p> <p><b>second</b> [18] - 330:8, 330:17, 334:20, 336:5, 337:23, 337:27, 338:16, 340:6, 341:24, 341:31, 341:38, 344:10, 354:26, 355:43, 370:2, 374:6, 374:10, 374:15</p> <p><b>secondly</b> [9] - 332:29, 332:36, 334:3, 340:17, 343:41, 346:31, 347:13, 356:46, 366:12</p> <p><b>section</b> [3] - 335:43, 338:29, 363:13</p> <p><b>seek</b> [3] - 334:14, 343:23, 361:27</p> <p><b>seeks</b> [1] - 361:32</p> <p><b>seem</b> [2] - 345:45, 360:42</p> <p><b>select</b> [1] - 336:15</p> <p><b>self</b> [1] - 365:35</p> <p><b>self-serving</b> [1] - 365:35</p> <p><b>Senior</b> [1] - 329:34</p> <p><b>senior</b> [3] - 337:33, 337:39, 361:47</p> <p><b>sensible</b> [1] - 368:30</p> <p><b>sensibly</b> [1] - 330:36</p> <p><b>sensitive</b> [1] - 345:11</p> <p><b>sensitivity</b> [3] -</p>	<p>345:34, 345:45, 368:13</p> <p><b>sent</b> [2] - 343:30, 355:14</p> <p><b>sentence</b> [4] - 341:12, 342:40, 342:42, 351:42</p> <p><b>sentences</b> [1] - 360:12</p> <p><b>separate</b> [4] - 333:8, 338:10, 354:18, 355:4</p> <p><b>separately</b> [1] - 337:39</p> <p><b>September</b> [7] - 336:26, 347:35, 348:22, 348:28, 355:13, 355:14, 364:46</p> <p><b>series</b> [2] - 333:20, 342:15</p> <p><b>serious</b> [3] - 332:42, 336:26, 371:15</p> <p><b>seriously</b> [2] - 350:40, 370:22</p> <p><b>seriousness</b> [1] - 353:35</p> <p><b>served</b> [1] - 330:39</p> <p><b>Services</b> [1] - 335:43</p> <p><b>services</b> [3] - 335:10, 356:42</p> <p><b>servicing</b> [1] - 365:35</p> <p><b>session</b> [4] - 338:11, 345:44, 357:26, 359:47</p> <p><b>set</b> [8] - 342:6, 342:14, 349:37, 359:32, 362:38, 368:11, 375:29, 375:39</p> <p><b>setting</b> [2] - 371:41, 375:41</p> <p><b>settings</b> [2] - 335:22, 335:24</p> <p><b>seven</b> [3] - 339:9, 340:23, 347:24</p> <p><b>several</b> [4] - 333:10, 335:36, 337:24, 345:23</p> <p><b>shall</b> [1] - 361:23</p> <p><b>shelf</b> [2] - 340:5, 340:8</p> <p><b>shift</b> [1] - 358:26</p> <p><b>short</b> [8] - 331:9, 340:6, 343:33, 349:25, 349:32, 350:6, 375:29, 375:44</p> <p><b>shorten</b> [1] - 338:35</p> <p><b>shorthand</b> [1] - 365:17</p> <p><b>shortly</b> [1] - 343:19</p> <p><b>show</b> [1] - 342:18</p>	<p><b>showed</b> [2] - 342:15, 346:31</p> <p><b>showing</b> [1] - 336:2</p> <p><b>side</b> [2] - 360:47, 361:1</p> <p><b>sign</b> [1] - 357:12</p> <p><b>sign-off</b> [1] - 357:12</p> <p><b>signed</b> [3] - 337:41, 349:17, 361:11</p> <p><b>significance</b> [7] - 332:27, 333:31, 337:7, 346:27, 354:3, 363:41, 369:43</p> <p><b>significant</b> [16] - 337:11, 339:32, 343:11, 343:32, 346:7, 348:1, 349:28, 350:5, 353:24, 354:4, 356:34, 365:18, 369:38, 372:4, 377:3, 378:8</p> <p><b>significantly</b> [1] - 346:35</p> <p><b>similarly</b> [1] - 370:13</p> <p><b>simply</b> [4] - 352:6, 360:13, 363:28, 363:37</p> <p><b>single</b> [1] - 340:44</p> <p><b>sit</b> [2] - 336:16, 356:21</p> <p><b>site</b> [1] - 335:20</p> <p><b>situation</b> [1] - 364:30</p> <p><b>sixthly</b> [1] - 357:21</p> <p><b>Sixty</b> [1] - 340:23</p> <p><b>Sixty-five</b> [1] - 340:23</p> <p><b>Slicprep</b> [2] - 341:32, 344:16</p> <p><b>slight</b> [1] - 358:16</p> <p><b>slow</b> [1] - 343:31</p> <p><b>small</b> [1] - 336:16</p> <p><b>smaller</b> [1] - 340:40</p> <p><b>so-called</b> [1] - 377:20</p> <p><b>Sofronoff</b> [26] - 333:32, 333:39, 333:40, 333:43, 333:47, 334:2, 335:42, 336:14, 336:41, 337:43, 344:31, 347:15, 347:22, 349:36, 353:19, 355:9, 355:30, 356:8, 356:9, 356:15, 359:28, 362:26, 364:21, 372:13, 372:23, 374:18</p> <p><b>sole</b> [1] - 332:37</p> <p><b>SOP</b> [1] - 358:21</p> <p><b>sorry</b> [8] - 349:23,</p>	<p>355:33, 359:11, 359:38, 373:24, 374:21, 378:8, 379:35</p> <p><b>sort</b> [1] - 375:35</p> <p><b>sought</b> [4] - 339:16, 344:47, 349:26, 374:23</p> <p><b>sound</b> [2] - 332:45, 363:3</p> <p><b>sounds</b> [1] - 379:29</p> <p><b>sources</b> [1] - 343:16</p> <p><b>South</b> [2] - 332:12, 347:30</p> <p><b>SPEAKER</b> [1] - 379:14</p> <p><b>speaking</b> [1] - 352:12</p> <p><b>speaks</b> [1] - 362:23</p> <p><b>specialist</b> [1] - 359:16</p> <p><b>specialists</b> [1] - 335:15</p> <p><b>specific</b> [4] - 356:17, 371:8, 374:32, 378:40</p> <p><b>specifically</b> [3] - 352:35, 352:42, 378:40</p> <p><b>specimens</b> [1] - 339:32</p> <p><b>speech</b> [2] - 374:6, 374:10</p> <p><b>spin</b> [1] - 341:33</p> <p><b>splashing</b> [1] - 344:45</p> <p><b>spot</b> [2] - 359:43, 360:32</p> <p><b>spreadsheets</b> [1] - 331:15</p> <p><b>staff</b> [8] - 335:45, 339:4, 356:11, 357:25, 361:36, 361:43, 362:24, 372:40</p> <p><b>stage</b> [3] - 368:19, 378:2, 378:43</p> <p><b>stakeholder</b> [1] - 357:28</p> <p><b>standard</b> [2] - 340:34, 379:23</p> <p><b>standardised</b> [1] - 358:22</p> <p><b>start</b> [3] - 330:5, 343:31, 360:34</p> <p><b>started</b> [1] - 339:41</p> <p><b>starting</b> [1] - 338:26</p> <p><b>state</b> [3] - 332:2, 332:15, 353:47</p> <p><b>statement</b> [33] - 335:46, 336:5, 336:41, 336:42, 336:43, 336:44, 337:20, 337:23,</p>	<p>337:40, 347:31, 348:15, 348:18, 350:27, 350:33, 351:10, 351:37, 354:26, 355:11, 355:38, 356:28, 359:40, 360:5, 361:46, 362:2, 362:6, 363:12, 370:2, 370:47, 372:40, 376:45, 376:47, 377:1</p> <p><b>statements</b> [34] - 330:10, 330:11, 331:21, 332:3, 332:21, 333:26, 333:42, 333:45, 334:3, 334:8, 334:11, 334:21, 334:23, 334:26, 334:28, 335:45, 336:44, 337:20, 337:23, 338:12, 347:8, 347:17, 348:47, 351:1, 351:3, 355:24, 355:25, 355:41, 356:2, 361:9, 363:18, 364:21, 369:32, 375:32</p> <p><b>states</b> [4] - 335:1, 335:12, 336:23, 337:1</p> <p><b>stating</b> [1] - 367:28</p> <p><b>statistics</b> [1] - 336:2</p> <p><b>status</b> [1] - 361:35</p> <p><b>statutory</b> [1] - 374:3</p> <p><b>step</b> [13] - 339:46, 340:10, 340:39, 340:42, 340:45, 341:15, 341:24, 341:47, 345:3, 353:29, 359:31, 367:39</p> <p><b>steps</b> [16] - 335:34, 338:6, 344:7, 344:35, 345:1, 354:6, 354:20, 355:47, 360:16, 360:17, 360:22, 369:40, 371:13, 372:4, 372:7, 375:38</p> <p><b>stick</b> [1] - 352:21</p> <p><b>still</b> [7] - 331:40, 335:23, 340:44, 345:44, 345:46, 352:22, 367:4</p> <p><b>STR</b> [1] - 357:43</p> <p><b>straightforward</b> [1] - 366:13</p>
---	--	--	--	--

<p><b>Street</b> [1] - 329:22  <b>strength</b> [1] - 366:34  <b>strengthened</b> [1] - 334:5  <b>strenuous</b> [1] - 352:13  <b>strive</b> [1] - 362:30  <b>striving</b> [1] - 361:37  <b>strong</b> [1] - 354:33  <b>stuck</b> [2] - 366:44, 367:34  <b>style</b> [5] - 339:40, 342:33, 352:5, 355:44, 361:42  <b>styled</b> [3] - 332:1, 340:4, 344:5  <b>styles</b> [1] - 348:18  <b>subcommittee</b> [5] - 336:26, 356:19, 356:20, 356:23  <b>subcommittees</b> [3] - 334:16, 356:16, 356:22  <b>subheading</b> [1] - 349:38  <b>subject</b> [4] - 333:13, 349:37, 358:17, 358:31  <b>submission</b> [24] - 337:31, 337:34, 346:46, 361:11, 361:14, 361:18, 368:22, 368:32, 371:37, 372:6, 373:2, 373:5, 373:7, 373:10, 373:12, 373:44, 377:10, 377:17, 377:31, 377:45, 378:6, 378:31, 379:36  <b>submissions</b> [17] - 330:39, 334:21, 346:44, 355:36, 365:11, 373:12, 375:14, 375:20, 376:10, 376:15, 376:39, 376:44, 379:1, 379:4, 379:6, 379:19, 379:25  <b>submitted</b> [2] - 349:45, 377:18  <b>suboptimally</b> [1] - 339:36  <b>subsequent</b> [3] - 345:4, 347:17, 348:25  <b>subsequently</b> [3] - 333:35, 351:1, 358:44  <b>substantial</b> [2] - 359:34, 372:10</p>	<p><b>substrate</b> [1] - 359:6  <b>substrates</b> [1] - 340:25  <b>success</b> [1] - 342:19  <b>sufficient</b> [6] - 332:17, 343:15, 370:16, 375:45, 377:19, 377:25  <b>sufficiently</b> [7] - 370:20, 373:15, 373:21, 373:30, 373:35, 373:44, 378:1  <b>suggest</b> [4] - 342:47, 343:2, 345:28, 351:2  <b>suggested</b> [5] - 333:39, 353:21, 355:10, 369:29, 372:34  <b>suggesting</b> [1] - 378:19  <b>suggestion</b> [4] - 339:24, 365:27, 369:14, 374:19  <b>suggests</b> [1] - 334:17  <b>suitability</b> [1] - 339:27  <b>suitable</b> [2] - 332:8, 342:3  <b>suite</b> [1] - 349:43  <b>summary</b> [2] - 355:38, 367:29  <b>Superintendent</b> [1] - 335:41  <b>superintendent</b> [1] - 336:5  <b>supplementary</b> [2] - 348:41, 376:45  <b>support</b> [9] - 335:31, 345:45, 346:4, 355:7, 357:22, 363:5, 363:39, 369:13, 370:41  <b>supported</b> [2] - 335:1, 351:18  <b>supporting</b> [4] - 335:9, 342:41, 374:7, 375:25  <b>supportive</b> [3] - 337:34, 337:43, 363:21  <b>supports</b> [1] - 361:14  <b>surprised</b> [1] - 360:39  <b>surprising</b> [1] - 352:26  <b>Susan</b> [2] - 336:40, 347:36  <b>susceptible</b> [1] - 340:26  <b>swabs</b> [2] - 336:8, 342:21</p>	<p><b>synthesise</b> [1] - 379:24  <b>system</b> [34] - 332:40, 333:4, 335:26, 338:4, 338:30, 339:3, 339:5, 342:3, 342:18, 342:47, 343:33, 343:35, 343:42, 343:44, 344:26, 344:29, 344:36, 346:11, 346:23, 359:30, 359:36, 362:46, 366:8, 366:13, 366:14, 366:16, 366:20, 367:41, 367:44, 367:45, 368:1, 368:4, 368:8, 375:43  <b>systematic</b> [1] - 349:13  <b>systematically</b> [1] - 332:25  <b>systemic</b> [3] - 354:5, 369:17, 369:39  <b>systems</b> [3] - 348:6, 348:11, 361:16</p>	<p>367:16  <b>temperatures</b> [1] - 340:27  <b>template</b> [1] - 342:33  <b>tendered</b> [2] - 333:11, 333:14  <b>tends</b> [2] - 337:13, 369:41  <b>term</b> [3] - 350:26, 363:12, 364:6  <b>terminology</b> [6] - 352:9, 352:18, 352:21, 352:23, 358:16  <b>terms</b> [12] - 330:7, 332:2, 332:15, 334:11, 334:28, 352:30, 352:32, 354:12, 355:47, 363:23, 376:41  <b>territory</b> [2] - 330:21, 373:40  <b>test</b> [4] - 345:27, 345:29, 345:33, 345:35  <b>tested</b> [2] - 341:42, 345:25  <b>testimony</b> [2] - 350:2, 365:27  <b>testing</b> [7] - 339:3, 339:33, 342:20, 345:10, 357:43, 361:26, 370:9  <b>tests</b> [1] - 368:11  <b>THE</b> [61] - 330:1, 331:19, 331:28, 338:46, 340:21, 341:1, 341:9, 341:17, 341:23, 352:28, 355:33, 358:7, 358:11, 358:37, 358:42, 359:3, 359:11, 359:23, 359:38, 360:2, 360:9, 360:28, 363:26, 363:30, 363:35, 363:43, 364:1, 366:46, 367:4, 367:22, 367:28, 368:37, 371:21, 372:28, 372:37, 372:42, 373:24, 373:43, 374:9, 374:30, 374:47, 375:4, 375:11, 375:16, 376:21, 376:25, 376:31, 376:36, 377:17, 377:24, 377:30,</p>	<p>377:36, 377:45, 378:11, 378:15, 378:24, 378:29, 379:3, 379:12, 379:21, 379:41  <b>themselves</b> [2] - 331:22, 368:41  <b>theoretical</b> [1] - 367:24  <b>therefore</b> [5] - 331:38, 341:25, 345:39, 353:2, 359:35  <b>they've</b> [1] - 376:2  <b>thinking</b> [1] - 354:43  <b>thinks</b> [2] - 343:1, 376:2  <b>third</b> [2] - 337:47, 340:38  <b>thirdly</b> [4] - 332:40, 343:43, 347:17, 357:4  <b>Thirty</b> [2] - 331:8, 340:23  <b>Thirty-five</b> [1] - 331:8  <b>Thirty-seven</b> [1] - 340:23  <b>thousand</b> [1] - 342:22  <b>thousands</b> [1] - 350:4  <b>three</b> [4] - 332:10, 337:33, 356:16, 356:39  <b>throughout</b> [1] - 332:6  <b>tight</b> [1] - 331:23  <b>timeframe</b> [5] - 331:23, 350:44, 370:25, 371:34, 379:23  <b>timeframes</b> [3] - 331:9, 348:30, 374:34  <b>timing</b> [3] - 330:3, 349:24, 375:32  <b>tips</b> [1] - 335:34  <b>title</b> [2] - 351:32, 351:39  <b>TN32</b> [2] - 345:8, 368:12  <b>TNE</b> [1] - 366:39  <b>today</b> [3] - 330:30, 339:23, 365:8  <b>together</b> [4] - 339:10, 375:23, 375:40, 379:24  <b>took</b> [4] - 338:6, 338:25, 353:43, 360:28  <b>topic</b> [6] - 347:3, 356:26, 359:46, 365:10, 373:1, 374:45</p>
<b>T</b>				
<p><b>tail</b> [1] - 344:34  <b>task</b> [4] - 352:41, 360:39, 360:45, 370:43  <b>tasked</b> [3] - 351:19, 352:46, 356:7  <b>taskforce</b> [1] - 338:27  <b>team</b> [29] - 334:32, 334:35, 334:37, 334:47, 337:33, 339:9, 339:19, 339:26, 339:41, 339:42, 339:44, 339:46, 339:47, 340:4, 341:47, 342:1, 357:12, 357:46, 358:20, 361:12, 361:41, 363:6, 364:15, 364:47, 368:8, 375:24, 375:40  <b>technical</b> [2] - 333:15, 360:47  <b>techniques</b> [3] - 330:29, 359:14, 359:15  <b>telephone</b> [1] - 349:32  <b>temperature</b> [5] - 340:34, 340:36, 367:7, 367:15,</p>				

<p><b>topics</b> [2] - 330:5, 349:11</p> <p><b>Toronto</b> [2] - 332:13, 340:15</p> <p><b>total</b> [3] - 331:11, 331:17, 331:21</p> <p><b>touched</b> [1] - 359:45</p> <p><b>towards</b> [2] - 340:40, 364:29</p> <p><b>trace</b> [1] - 342:23</p> <p><b>tracked</b> [1] - 367:24</p> <p><b>training</b> [4] - 335:12, 343:32, 356:46, 357:7</p> <p><b>transcript</b> [4] - 341:10, 341:18, 360:6, 366:29</p> <p><b>transparency</b> [1] - 361:38</p> <p><b>transparent</b> [1] - 357:24</p> <p><b>troubleshoot</b> [1] - 335:16</p> <p><b>trying</b> [1] - 375:6</p> <p><b>tub</b> [14] - 330:17, 336:7, 336:9, 337:24, 337:27, 338:10, 338:13, 338:16, 338:18, 338:20, 340:6, 341:38, 359:13, 367:12</p> <p><b>tube</b> [1] - 341:30</p> <p><b>tubs</b> [2] - 338:3, 342:27</p> <p><b>Tuesday</b> [1] - 350:2</p> <p><b>turn</b> [5] - 337:47, 344:21, 346:7, 369:8, 373:1</p> <p><b>turning</b> [4] - 344:24, 350:10, 350:38, 353:16</p> <p><b>two</b> [16] - 332:27, 334:23, 334:24, 334:26, 335:45, 337:19, 337:30, 338:2, 344:9, 348:7, 349:9, 361:8, 369:31, 373:3, 373:19, 373:34</p>	<p>338:39, 339:31, 348:47, 349:38, 357:39, 359:8, 361:16, 362:5, 362:27, 362:40, 366:3</p> <p><b>undergone</b> [1] - 356:34</p> <p><b>undermined</b> [1] - 369:8</p> <p><b>understood</b> [5] - 352:41, 353:11, 354:3, 365:38, 369:37</p> <p><b>undertaken</b> [7] - 338:42, 340:13, 344:15, 355:45, 360:17, 364:45, 372:22</p> <p><b>undertaking</b> [2] - 350:17, 368:11</p> <p><b>undertook</b> [2] - 341:15, 345:29</p> <p><b>undue</b> [1] - 374:42</p> <p><b>UNIDENTIFIED</b> [1] - 379:14</p> <p><b>universities</b> [1] - 357:47</p> <p><b>unlike</b> [1] - 346:17</p> <p><b>unrelated</b> [1] - 347:42</p> <p><b>untoward</b> [1] - 363:30</p> <p><b>up</b> [14] - 338:32, 344:33, 346:31, 352:40, 359:13, 362:39, 364:38, 367:9, 371:41, 375:5, 375:29, 375:39, 375:41, 379:32</p> <p><b>update</b> [2] - 343:22, 364:40</p> <p><b>user</b> [1] - 339:14</p> <p><b>user-friendliness</b> [1] - 339:14</p> <p><b>usual</b> [1] - 347:32</p> <p><b>utilised</b> [3] - 338:43, 352:22, 359:18</p>	<p>377:5, 378:9</p> <p><b>validating</b> [1] - 338:41</p> <p><b>validation</b> [25] - 334:41, 338:7, 338:32, 338:41, 338:43, 340:4, 340:7, 341:45, 345:9, 349:7, 349:18, 351:42, 351:44, 357:17, 357:18, 358:21, 359:30, 369:1, 377:20, 377:46, 377:47, 378:22, 378:25, 378:44</p> <p><b>validation"</b> [1] - 350:36</p> <p><b>validations</b> [6] - 335:24, 349:12, 356:43, 357:16, 357:36, 357:40</p> <p><b>validly</b> [2] - 345:18, 368:17</p> <p><b>variant</b> [1] - 338:10</p> <p><b>variation</b> [1] - 373:14</p> <p><b>variations</b> [1] - 344:21</p> <p><b>varied</b> [1] - 334:5</p> <p><b>variety</b> [1] - 356:21</p> <p><b>various</b> [11] - 330:39, 332:20, 334:36, 335:20, 341:34, 344:41, 344:42, 348:25, 349:29, 355:27, 373:11</p> <p><b>variously</b> [1] - 351:27</p> <p><b>venture</b> [2] - 373:40, 374:2</p> <p><b>veracity</b> [1] - 356:2</p> <p><b>verification</b> [4] - 350:35, 351:7, 351:45, 370:30</p> <p><b>verify</b> [1] - 346:16</p> <p><b>version</b> [3] - 344:39, 344:40, 366:15</p> <p><b>Veth</b> [9] - 338:17, 345:44, 350:1, 355:15, 358:30, 360:19, 369:4, 372:21, 378:32</p> <p><b>Veth's</b> [1] - 360:38</p> <p><b>via</b> [1] - 364:35</p> <p><b>view</b> [9] - 332:33, 345:3, 346:21, 360:41, 366:25, 369:5, 370:37, 372:21, 377:6</p> <p><b>virtually</b> [1] - 349:4</p> <p><b>visit</b> [1] - 335:25</p> <p><b>visited</b> [1] - 335:20</p> <p><b>volume</b> [2] - 340:40,</p>	<p>349:28</p> <p><b>volumes</b> [2] - 344:43, 350:5</p>	<p>361:22, 361:32, 361:36, 362:19, 362:29, 362:32, 363:15, 364:10, 364:12, 364:25, 369:5, 369:20, 369:34, 369:38, 369:42, 369:46, 370:6, 370:14, 370:19, 370:29, 371:32, 372:29, 377:6, 377:12, 378:1</p> <p><b>wilde</b> [1] - 360:23</p> <p><b>Wilde's</b> [10] - 333:46, 337:14, 337:35, 350:5, 356:26, 361:14, 363:4, 363:39, 370:47, 371:5</p> <p><b>WILLIAMS</b> [1] - 379:16</p> <p><b>willy</b> [1] - 359:15</p> <p><b>willy-nilly</b> [1] - 359:15</p> <p><b>Wilson</b> [76] - 330:19, 333:7, 333:9, 333:27, 333:30, 333:42, 333:46, 336:25, 336:30, 336:44, 336:46, 337:2, 337:8, 337:10, 337:14, 337:19, 337:35, 337:44, 338:17, 345:36, 347:4, 347:29, 348:36, 349:27, 350:5, 350:20, 350:39, 353:18, 353:21, 353:39, 353:47, 354:4, 354:10, 354:16, 354:18, 354:23, 354:47, 355:9, 355:27, 355:39, 355:43, 356:26, 360:40, 360:42, 361:2, 361:6, 361:14, 361:22, 361:32, 361:36, 362:19, 362:29, 362:32, 363:4, 363:15, 363:39, 364:10, 364:12, 364:25, 369:5, 369:20, 369:34, 369:38, 369:42, 369:46, 370:6, 370:14, 370:19, 370:29, 370:47, 371:5, 371:32, 372:29,</p>
<b>U</b>	<b>V</b>		<b>W</b>	
<p><b>ultimately</b> [4] - 339:42, 343:23, 350:15, 350:34</p> <p><b>uncertainties</b> [1] - 367:15</p> <p><b>unclear</b> [1] - 342:30</p> <p><b>under</b> [12] - 338:28,</p>	<p><b>valid</b> [4] - 335:23, 351:29, 366:10, 371:3</p> <p><b>validate</b> [3] - 345:23, 357:42, 367:47</p> <p><b>validated</b> [11] - 340:1, 340:13, 344:22, 345:38, 345:42, 353:25, 366:8, 366:14, 367:23,</p>		<p><b>WA</b> [1] - 332:11</p> <p><b>Walter</b> [1] - 336:14</p> <p><b>wants</b> [1] - 379:28</p> <p><b>warrants</b> [1] - 365:43</p> <p><b>WAS</b> [1] - 379:41</p> <p><b>Watherston</b> [2] - 337:32, 361:13</p> <p><b>ways</b> [1] - 359:13</p> <p><b>wealth</b> [2] - 330:44, 331:26</p> <p><b>website</b> [1] - 375:41</p> <p><b>week</b> [1] - 334:13</p> <p><b>weekend</b> [3] - 331:30, 331:40, 347:33</p> <p><b>weekly</b> [1] - 343:22</p> <p><b>well-to-well</b> [1] - 344:44</p> <p><b>wellbeing</b> [1] - 357:23</p> <p><b>whereas</b> [1] - 340:39</p> <p><b>whereby</b> [1] - 334:47</p> <p><b>whilst</b> [5] - 342:33, 344:47, 345:33, 353:46, 361:26</p> <p><b>whistleblower</b> [2] - 363:44, 364:7</p> <p><b>whistleblowers</b> [1] - 337:42</p> <p><b>whole</b> [10] - 351:11, 351:13, 351:21, 351:27, 351:28, 351:38, 351:42, 370:33, 371:3, 371:34</p> <p><b>Wilde</b> [66] - 330:19, 333:7, 333:9, 333:27, 333:30, 333:42, 336:25, 336:30, 336:46, 337:2, 337:8, 337:10, 337:19, 337:44, 338:17, 345:36, 347:4, 347:29, 348:36, 349:27, 350:20, 350:39, 353:18, 353:21, 353:39, 353:47, 354:4, 354:10, 354:16, 354:18, 354:23, 354:47, 355:9, 355:27, 355:39, 355:43, 356:26, 360:40, 360:42, 361:2, 361:6, 361:14, 361:22, 361:32, 361:36, 362:19, 362:29, 362:32, 363:4, 363:15, 363:39, 364:10, 364:12, 364:25, 369:5, 369:20, 369:34, 369:38, 369:42, 369:46, 370:6, 370:14, 370:19, 370:29, 370:47, 371:5, 371:32, 372:29,</p>	

<p>377:6, 377:12, 378:1  <b>Wilson-Wilde</b> [66] -  330:19, 333:7,  333:9, 333:27,  333:30, 333:42,  336:25, 336:30,  336:44, 336:46,  337:2, 337:8,  337:10, 337:19,  337:44, 338:17,  345:36, 347:4,  347:29, 348:36,  349:27, 350:20,  350:39, 353:18,  353:21, 353:39,  353:47, 354:4,  354:10, 354:16,  354:18, 354:23,  354:47, 355:9,  355:27, 355:39,  355:43, 360:40,  360:42, 361:2,  361:6, 361:22,  361:32, 361:36,  362:19, 362:29,  362:32, 363:15,  364:10, 364:12,  364:25, 369:5,  369:20, 369:34,  369:38, 369:42,  369:46, 370:6,  370:14, 370:19,  370:29, 371:32,  372:29, 377:6,  377:12, 378:1  <b>Wilson-Wilde's</b> [10] -  333:46, 337:14,  337:35, 350:5,  356:26, 361:14,  363:4, 363:39,  370:47, 371:5</p>	<p><b>words</b> [2] - 354:2,  358:26  <b>workings</b> [1] - 361:28  <b>works</b> [1] - 366:34  <b>world</b> [2] - 361:44,  363:8  <b>world-class</b> [2] -  361:44, 363:8  <b>worse</b> [1] - 342:17  <b>worthy</b> [1] - 354:19  <b>Wright</b> [20] - 332:20,  332:27, 333:7,  333:14, 333:26,  333:44, 334:8,  334:12, 338:17,  342:7, 346:20,  346:27, 346:33,  347:9, 355:15,  355:33, 360:20,  360:45, 367:6, 369:5  <b>wright</b> [1] - 355:25  <b>Wright's</b> [5] - 332:33,  333:1, 333:30,  334:3, 346:28  <b>write</b> [3] - 335:13,  352:17, 352:18  <b>writing</b> [9] - 338:21,  342:32, 352:22,  358:4, 370:40,  370:42, 371:6,  376:26, 377:12  <b>written</b> [12] - 330:39,  342:44, 356:27,  363:11, 376:10,  376:39, 376:44,  377:8, 378:47,  379:3, 379:6, 379:19  <b>wrote</b> [3] - 342:34,  342:37, 342:42</p>	<p>353:44, 354:28,  354:38, 355:11,  355:14, 355:18,  367:40, 369:23,  369:24, 369:25,  369:30, 370:15,  370:20, 370:26,  377:26, 378:40  <b>yields</b> [7] - 342:19,  343:21, 345:16,  345:46, 346:2,  366:22, 368:15</p>
<b>Y</b>		
<p><b>wish</b> [13] - 331:36,  331:39, 356:36,  361:19, 363:10,  373:2, 374:42,  375:42, 376:1,  376:14, 376:17,  376:28, 379:12  <b>wished</b> [1] - 340:27  <b>withdraw</b> [1] - 349:23  <b>witness</b> [4] - 331:21,  333:10, 338:3,  360:18  <b>witnesses</b> [1] - 376:8  <b>word</b> [4] - 342:11,  345:8, 346:43,  377:26  <b>wording</b> [4] - 352:12,  373:28, 373:38,  379:7</p>	<p><b>Y-STR</b> [1] - 357:43  <b>year</b> [6] - 336:36,  336:37, 356:30,  356:34, 357:35,  361:8  <b>years</b> [3] - 346:15,  360:47, 365:18  <b>yesterday</b> [3] -  336:10, 337:27,  376:18  <b>yield</b> [31] - 339:14,  340:29, 340:43,  341:14, 341:17,  341:25, 343:17,  345:31, 350:11,  350:28, 350:39,  350:46, 353:14,  353:22, 353:26,</p>	