

United States District Court
Northern District of California

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF CALIFORNIA

CITY AND COUNTY OF SAN
FRANCISCO, et al.,

Plaintiffs,

v.

PURDUE PHARMA L.P., et al.,

Defendants.

Case No. 18-cv-07591-CRB

**FINDINGS OF FACT AND
CONCLUSIONS OF LAW
REGARDING WALGREENS**

The opioid epidemic has plagued San Francisco for over twenty years. The number of individuals who die annually from opioid overdoses continues to climb. Thousands of city residents, from all walks of life, struggle with addiction. Widespread opioid use has strained the city’s hospitals. It has forced streets, parks, and public spaces to close. It has exacerbated crime and homelessness. Every year, San Francisco devotes significant resources to a multiprong fight against the opioid epidemic. That fight includes this case.

This case is part of a nationwide multidistrict litigation stemming from the ongoing opioid epidemic. Cities, counties, and states across the country have filed claims against manufacturers, distributors, and dispensers of prescription opioids. While the facts of each case vary, the claims center on the contention that each defendant has contributed to the opioid epidemic that has engulfed the country.

In this case, the People of the State of California, acting through the San Francisco City Attorney (“Plaintiff”), filed claims against dozens of defendants related to the opioid epidemic in San Francisco. By the time of trial, only four defendants remained. The Court

1 held a bench trial from April 25, 2022 to June 27, 2022. Closing argument was held from
2 July 12 to July 13, 2022. By the close of trial, Walgreens Co. (“Walgreens”) was the sole
3 remaining defendant. The other three defendants settled their claims.

4 At trial, Plaintiff brought a single public nuisance claim against Walgreens. The
5 question for the Court is whether Plaintiff proffered sufficient evidence at trial to prove
6 this claim. To carry its burden of proof, Plaintiff had to establish that it is more likely than
7 not that Walgreens knowingly engaged in unreasonable conduct that was a substantial
8 factor in contributing to the opioid epidemic in San Francisco. After careful consideration
9 of the evidence, the Court finds that Plaintiff carried its burden.

10 Walgreens is the largest retail pharmacy chain in San Francisco. Between 2006 and
11 2020, Walgreens distributed and dispensed over one hundred million prescription opioid
12 pills in the city. The Controlled Substances Act (“CSA”) and its implementing regulations
13 impose duties on distributors and dispensers of prescription opioids. In exchange for the
14 privilege of distributing and dispensing prescription opioids, Walgreens has regulatory
15 obligations to take reasonable steps to prevent the drugs from being diverted and harming
16 the public. The evidence at trial established that Walgreens breached these obligations.

17 Until 2014, Walgreens distributed prescription opioids to its pharmacies in San
18 Francisco. CSA regulations require distributors to implement and maintain a system for
19 identifying suspicious orders of opioids. Suspicious orders of opioids must be halted and
20 reported to the DEA. They cannot be shipped to the ordering pharmacy. The evidence at
21 trial established that Walgreens violated this regulatory duty for several years. It did not
22 maintain an effective system for identifying suspicious orders. It shipped thousands of
23 suspicious orders to its pharmacies without investigation. In 2012, the DEA shut down
24 one of Walgreens’ three controlled substance distribution centers because the distribution
25 center’s failure to monitor for suspicious opioid orders posed an imminent threat of harm
26 to public health and safety. Shortly thereafter, Walgreens stopped distributing opioids all
27 together.

28 Walgreens pharmacies are the largest dispenser of opioids in San Francisco. To

1 prevent diversion, CSA regulations require Walgreens to verify the medical legitimacy of
2 opioid prescriptions before dispensing them. Fulfilling this duty requires Walgreens
3 pharmacies to resolve “red flags” associated with a prescription before dispensing it. Red
4 flags are well-established warning signs that raise questions about the legitimacy of a
5 prescription. Medically legitimate prescriptions are prescribed for a patient’s benefit, but
6 medically illegitimate prescriptions are not. They are prescriptions that are misused and
7 abused. Medically illegitimate prescriptions extend far beyond forged prescriptions and
8 prescriptions that are written on a stolen prescription pad. Many illegitimate prescriptions
9 come from unscrupulous doctors who write prescriptions in exchange for payment. It is
10 not enough for a pharmacy to simply ascertain that a licensed prescriber wrote the
11 prescription. Pharmacies have a corresponding duty to exercise independent judgment in
12 determining whether the prescription was written for a legitimate medical purpose.

13 The evidence at trial established that from 2006 to 2020, Walgreens pharmacies in
14 San Francisco dispensed hundreds of thousands of red flag opioid prescriptions without
15 performing adequate due diligence. Tens of thousands of these prescriptions were written
16 by doctors with suspect prescribing patterns. The evidence showed that Walgreens did not
17 provide its pharmacists with sufficient time, staffing, or resources to perform due diligence
18 on these prescriptions. Pharmacists experienced constant pressure to fill prescriptions as
19 quickly as possible, and a shortage of resources to review them before dispensing. As a
20 result of Walgreens’ fifteen-year failure to perform adequate due diligence, Plaintiff
21 proved that it is more likely than not that Walgreens pharmacies dispensed large volumes
22 of medically illegitimate opioid prescriptions that were diverted for illicit use and that
23 substantially contributed to the opioid epidemic in San Francisco.

24 The Court’s findings of fact and conclusions of law are set forth below. This ruling
25 holds only that Walgreens is liable for substantially contributing to the public nuisance in
26 San Francisco. A subsequent trial will determine the extent to which Walgreens must
27 abate the public nuisance that it helped to create.
28

1 **I. FINDINGS OF FACT**

2 In a bench trial, the court’s findings of fact are presumed to be based on admissible
 3 evidence. Williams v. Illinois, 567 U.S. 50, 69 (2012); Harris v. Rivera, 454 U.S. 339, 465
 4 (1981). To the extent that objections have been raised to the evidence cited in support of
 5 the Court’s findings, the objections are overruled. See City of Huntington v. Amerisource
 6 Bergen Drug Corp., No. CV 3:17-01362, 2022 WL 2399876, at *1 (S.D.W. Va. July 4,
 7 2022).

8 **A. Background**

9 **1. The Science of Opioid Addiction**

10 Opioid addiction is explained by a change in an opioid user’s brain chemistry.¹ See
 11 Lembke (dkt. 1281) Decl. ¶ 3. Opioids bind to mu-pain receptors temporarily relieving
 12 pain. Lembke, May 9, 2022, Trial Tr. at 383:23–384:4. In addition, opioids cause the
 13 release of dopamine. Id. Dopamine is a naturally occurring neurotransmitter that causes
 14 feelings of pleasure and reward. See id.; Lembke, May 9, 2022, Trial Tr. at 383:23–384:9.
 15 In response to repeated additional releases of dopamine from opioid use, the brain begins
 16 to downregulate the amount of dopamine it naturally produces, a process known as
 17 neuroadaptation. Lembke Decl. ¶ 3. The result is a dopamine deficient state, in which the
 18 brain is producing less dopamine and the user is experiencing less pleasure and more pain
 19 than they were before opioid use began. Id.

20 In a dopamine deficient state, a user needs opioids to return to their previous
 21 dopamine baseline and to avoid the pain of prolonged dopamine deficiency. Lembke Decl.
 22 ¶ 3. Users “need opioids not to feel good but just to restore a level balance and feel
 23 normal.” See Lembke, May 9, 2022, Trial Tr. at 384:10–386:3. Opioid users in this state
 24 are physically dependent on the drugs. See id. at 384:10–386:15. Someone taking opioids

25 _____
 26 ¹ Opioid addiction is synonymous with opioid use disorder. See Colwell, April 28, 2022, Trial Tr.
 27 at 360. Opioid use disorder has a more precise medical definition set out in The Diagnostic and
 28 Statistical Manual of Mental Disorders (“DSM”), which defines the severity as mild, moderate, or
 severe, depending on the symptoms present. See Lembke Decl. ¶ 2. But both terms describe the
 same form of harmful behavior: the continued use of opioids despite deleterious effects to self or
 others. See id. ¶¶ 2–5.

1 for “relatively short periods of time” can develop physical dependence and experience
2 withdrawal if they stop taking opioids. Zevin, May 10, 2022, Trial Tr. at 640:21–641:1;
3 Coffin (dkt. 1376) Decl. ¶ 55. Symptoms of withdrawal include anxiety, debility,
4 insomnia, dysphoria, “and in the case of opioids, a very distinct and painful physical
5 withdrawal syndrome, including full-body pain that can be experienced and is typically
6 experienced in people who do not have a pain disorder.” Lembke, May 9, 2022, Trial Tr.
7 at 384:10–386:15.

8 Over time, opioid users generally require higher doses to experience the same effect
9 that they initially experienced. Lembke, May 9, 2022, Trial Tr. at 386:12–387:15. This is
10 the process of developing tolerance to the drug. Id. Dr. Lembke explained that “the brain
11 adapts to the presence of the opioid molecule such that the individual needs more and more
12 to get the same effect and ultimately is physically dependent and experiences painful
13 withdrawal when they stop whether or not they have a pain condition.” Id. at 387:11–15.
14 Once the brain adapts to the presence of opioids, it can “take a very long time after the
15 individual has stopped using their drug for the brain to reset itself to normal dopamine
16 levels.” Id. at 387:17–388:7; 391:25–392:18. Reducing opioid use requires tapering,
17 which involves gradually progressing to lower doses of opioids. Lembke Decl. ¶¶ 39–41.
18 The process of tapering off opioids “is time-intensive and requires substantial support from
19 clinicians and other providers in the healthcare system.” Coffin Decl. ¶ 55.

20 Opioid addiction affects people from all walks of life, regardless of age, ethnicity,
21 or socioeconomic status. Colwell (dkt. 1284) Decl. ¶¶ 11–12. The neural pathways
22 affected by opioid use are common across all people, which makes everyone vulnerable to
23 opioid addiction. Lembke Decl. ¶ 4. Opioids carry risks of addiction even when
24 prescribed by a medical professional. Keyes (dkt. 1386) Decl. ¶ 14, 40. Stronger dosages
25 and longer durations of use increase the risk of addiction. Lembke, May 9, 2022, Trial Tr.
26 at 398:5–16.

27 Opioid addiction can have devastating consequences. People suffering from the
28 most severe forms of addiction “commit all available resources to obtaining more of the

1 substance, even forgoing natural rewards like food, finding a mate, or raising children.”
 2 Lembke Decl. ¶ 5. For people suffering from severe addiction, consuming more opioids
 3 often appears to be the only way to avoid the intense pain of withdrawal. See id.

4 **2. The Opioid Epidemic in San Francisco**

5 For over two decades, San Francisco has been battling an opioid epidemic, defined
 6 by high rates of opioid abuse and addiction throughout the city.² Coffin Decl. ¶ 11. The
 7 number of people in the city abusing opioids has substantially accelerated in recent years.
 8 Zevin Decl. (dkt. 1296) ¶ 5. The number of opioid-related emergency room visits has
 9 increased significantly, more than tripling from 886 in 2015 to 2,998 in 2020. Coffin Decl.
 10 ¶ 40. Since 2016, opioid overdoses have been the leading cause of death among the
 11 homeless in San Francisco. See Zevin Decl. ¶ 6. In 2019, the last year of available data,
 12 an estimated 40,958 city residents out of a total population of approximately 865,000
 13 suffered opioid addiction. See Keyes Decl. ¶ 25. That same year, approximately 1,939
 14 people in San Francisco overdosed on opioids, an average of 5.3 opioid overdoses per day.
 15 Id. ¶ 135.

16 Prescription opioids have been at the heart of San Francisco’s ongoing opioid
 17 epidemic, which has unfolded in three different waves. The first wave started in the late
 18 1990s and early 2000s when opioid manufacturers began to aggressively promote opioids
 19 as safe and effective for treating a broad range of medical conditions. Lembke, May 9,
 20 2022, Trial Tr. at 382:15–383:11. The aggressive marketing resulted in increased
 21 prescribing and the increased prescribing resulted in an increase in opioid abuse, addiction,
 22 and overdoses. See id.; Coffin Decl. ¶¶ 17–19; 37. The second wave began in the early
 23 2010s, when medical professionals began to reduce opioid prescribing based on the
 24 recognition that opioids are not a safe and effective form of treatment for many medical
 25 conditions. See id. ¶¶ 20–22. However, the massive expansion of the prescription opioid
 26

27 ² “Epidemic” describes the outbreak of a disease that spreads quickly, affecting many people at the
 28 same time. See Lembke Decl. Part III.Q. The term appropriately describes the rapid increase in
 opioid-related morbidity and mortality that began in the 1990s and continues still. See id.

1 supply that happened in the preceding decade laid the foundation for increased use of illicit
 2 opioids. Keyes Decl. ¶ 12. In the second wave, many people who were addicted to
 3 prescription opioids but no longer readily able to obtain them from doctors shifted to
 4 heroin use. See id.; Coffin Decl. ¶ 37. The third wave started around 2015, when
 5 inexpensive and highly potent fentanyl became widely available across a city already
 6 struggling with opioid addiction. Keyes Decl. ¶ 12; Coffin Decl. ¶ 37. The city’s fight
 7 against the effects of each wave of the opioid epidemic continues today.

8 **a. Wave One: Prescription Opioids**

9 Heroin use has long been a public health issue in San Francisco. See Coffin Decl. ¶
 10 12. In the late 1990s, San Francisco pioneered public health programs to address heroin
 11 use in the city, including expanding the availability of treatment programs and resources.
 12 Id. ¶¶ 12–14; Coffin, May 26, 2022, Trial Tr. at 1896:18–1897:16. The public health
 13 programs worked. By the early 2000s, the city was winning the battle against heroin use.
 14 See Coffin, May 26, 2022, Trial Tr. at 1896:18–1897:16. Heroin overdoses decreased
 15 dramatically from 150 per year in the late 1990s to 10 in 2010. Id.

16 As San Francisco was succeeding in the fight against heroin use, the volume of
 17 prescription opioids began to increase significantly. See Coffin Decl. ¶¶ 11, 16–17.
 18 The significant increase in opioid prescribing that took place in the late 1990s throughout
 19 the 2000s resulted from changing views on the safety and efficacy of opioids as a form of
 20 pain treatment. Lembke, May 9, 2022, Trial Tr. at 382:15–19; Zevin Decl. ¶ 9. For much
 21 of the twentieth century, medical professionals used opioids sparingly because of “the
 22 legitimate concern that patients would get addicted.” Lembke Decl. ¶ 7; see also Herzberg
 23 Decl. ¶¶ 4–5. Opioid use was generally limited to treating cancer pain, hospice patients,
 24 and for short-term use in treating pain stemming from severe injuries. See Zevin, May 10,
 25 2022, Trial Tr. at 620:17–621:25. Medical professionals understood that opioids carried
 26 high risks of abuse, and they limited their prescribing. See Lembke, May 9, 2022, Trial Tr.
 27 at 394:7–13. This “conservative consensus” about opioid prescribing held for decades,
 28 until it began to change in the 1990s. Herzberg, May 31, 2022, Trial Tr. at 1975:18–

1 1976:12

2 In the 1990s and throughout the 2000s, opioid manufacturers launched aggressive
3 marketing campaigns intended to persuade medical professionals that prescription opioids
4 were a safe and effective form of treatment for many pain conditions. Lembke Decl. ¶¶
5 11–12; Herzberg Decl. ¶ 11; Coffin Decl. ¶ 17. The marketing campaigns aimed to
6 expand the market for prescription opioids from a limited range of acute conditions to
7 commonplace forms of pain, such as lower back pain and headaches. Lembke Decl. ¶¶
8 11–12; Herzberg Decl. ¶ 11. The marketing campaigns claimed that new formulations of
9 prescription opioids provided highly effective pain relief and could be safely prescribed for
10 long-term use with low risks of addiction. See Lembke, May 9, 2022, Trial Tr. at 393:14–
11 395:13; Herzberg, May 31, 2022, Trial Tr. at 1982:9–1987:12; Keyes Decl. ¶¶ 91–99. The
12 marketing campaigns were extensive. Opioid manufacturers employed large salesforces,
13 targeted high-prescribing doctors, held medical conferences promoting opioids for pain
14 treatment, paid doctors to speak about the benefits of opioids, and funded articles in
15 medical journals that highlighted the safety and efficacy of opioids. Lembke Decl. ¶¶ 50–
16 97; Herzberg Decl. ¶ 13. The marketing campaigns worked. The aggressive promotion of
17 the use of prescription opioids to treat widespread forms of pain led to a paradigm shift in
18 the treatment of pain. Opioids became “first-line treatment for minor and chronic pain
19 conditions.” Lembke Decl. ¶ 13; Lembke, May 9, 2022, Trial Tr. at 382:5–5.

20 In addition to marketing opioids as a safe and effective form of treatment, opioid
21 manufacturers broadly promoted the idea that pain was commonplace and undertreated.
22 See Lembke Decl. ¶ 10. Opioid manufacturers represented that millions of people across
23 the country were living with chronic pain that affected their quality of life. See Lembke,
24 May 9, 2022, Trial Tr. at 393:14–395:13. Pain became the “fifth vital sign.” Lembke
25 Decl. ¶ 103. Patients began using a visual pain scale that consisted of “a series of happy or
26 sad faces supposedly corresponding to pain levels from 0 (no pain) to 10 (the most extreme
27 pain)” to communicate their pain to doctors. Id. State Medical Boards that received
28 significant support and funding from opioid manufacturers warned doctors that failing to

1 adequately treat pain could be grounds for a malpractice claim. See id. ¶¶ 90–96. Doctors
2 “lived in fear of disciplinary action from the State Medical Boards and the lawsuit that
3 usually followed, if they denied a patient opioid painkillers.” Id. ¶ 93.

4 Opioid manufacturers billed prescription opioids as the solution to undertreated
5 pain. See Lembke Decl. ¶ 13; Lembke, May 9, 2022, Trial Tr. at 384:21–395:7. Doctors
6 across all specialties began prescribing more opioids to treat a broad range of conditions.
7 Lembke Decl. ¶ 10; Keyes Decl. ¶¶ 88–89. Drug manufacturers claimed that there was no
8 “ceiling dose” for opioids, and doctors began writing prescriptions for higher dosages and
9 longer durations. Lembke Decl. Part C. The number of prescriptions increased markedly.
10 Coffin Decl. ¶¶ 17–18; Coffin, May 26, 2022, Trial Tr. at 1912:19–1913:6. From the late
11 1990s to 2012, opioid prescribing quadrupled. Lembke Decl. ¶ 8.

12 The massive increase in opioid prescriptions caused corresponding increases in
13 opioid abuse, addiction, and overdoses. Keyes Decl. ¶¶ 11–13; Lembke ¶¶ 8–9 (“Higher
14 doses and longer durations cause increased rates of addiction and death.”). The most
15 important risk factor for opioid addiction is access to opioids.³ Lembke Decl. ¶ 4. As the
16 opioid supply in San Francisco increased, the rates of opioid addiction and overdoses
17 increased as a “direct consequence.” Keyes Decl. ¶¶ 11–13. Each “one-pill increase in per
18 capita pill volume” is “associated with 0.2 additional overdose deaths.” Id. ¶ 79. In
19 addition to the harms resulting directly from the increasing supply, many of the claims that
20 manufacturers made about opioids proved to be inaccurate. See Lembke Decl. Part III. As
21 rates of abuse and addiction increased, it became clear that opioids were not a safe and
22 effective form of treatment for many forms of pain. See id.

23 By the early 2000s, prescription opioids had surpassed heroin as the leading cause
24 of opioid overdoses in San Francisco. See Coffin, May 26, 2022, Trial Tr. at 1898:4–16.
25 From 2000 to 2010, prescription opioids caused the overwhelming majority of opioid
26

27 ³ A risk factor is a variable that increases the frequency with which an outcome occurs. Keyes
28 Decl. ¶ 31. An example is cigarette smoking and lung cancer. Cigarette smoking increases the
risk of lung cancer (especially the longer and more frequently that someone smokes). Id.

1 overdose deaths in San Francisco. See Coffin Decl. ¶ 19; Coffin, May 26, 2022, Trial Tr.
2 at 1906:6–20. Overdose deaths from prescription opioids continued to increase despite the
3 city’s significant investment in public health programs designed to combat opioid abuse.
4 Coffin Decl. ¶ 28. From 2010 to 2012, the rate of opioid overdoses in San Francisco was
5 2.23 times the national average. Id. ¶ 21.

6 In the early 2010s, the medical community’s view on prescription opioids began to
7 change again. See Coffin Decl. ¶¶ 20–22. Rates of opioid abuse, addiction, and overdoses
8 had increased across the country for a decade. See P-19656 at 00009 (2012 DEA
9 presentation to pharmaceutical companies stating “more Americans abuse prescription
10 drugs than the number of: cocaine, hallucinogens, heroin, and inhalant abusers
11 combined!!!”) (cleaned up). There was a growing spotlight on recreational use of
12 prescription opioids, including abuse by teenagers and adolescents. See id. at 00011,
13 00014, 00020. In addition, there was growing awareness that the medical profession and
14 government regulators had underappreciated opioids’ risks of addiction. See Zevin Decl.
15 ¶¶ 8–10; Coffin, May 26, 2022, Trial Tr. at 1899:7–14. Medical professionals began to
16 recognize that the “overreliance on opioids” to treat pain had caused “a crisis nationally
17 and in San Francisco.” Coffin, May 26, 2022, Trial Tr. at 1899:7–14. Doctors began to
18 take a more careful approach to opioid prescribing and opioid prescribing rates began to
19 decline. See Coffin, May 26, 2022, Trial Tr. at 1899:7–20; Coffin Decl. ¶¶ 20–22.

20 **b. Wave Two: Prescription Opioids and Heroin**

21 The volume of opioids prescribed in San Francisco peaked in the early 2010s. See
22 Coffin Decl. ¶ 11, 22. Opioid prescribing rates declined from 2011 to 2020, although they
23 remained significantly higher than pre-2000s levels. Keyes Decl. ¶ 22. As prescription
24 opioids became less readily available, many people addicted to prescription opioids began
25 to turn to heroin. While the city had a heroin problem in the late 1990s, the problem
26 became “significantly worse” following the increase in opioid prescribing in the 2000s.
27 See Tong Decl. (dkt. 1336) ¶ 3; Tong, May 19, 2022, Trial Tr. at 1351:22–1352:6.

28 In the early 2010s, heroin use and heroin overdose deaths increased as the volume

1 of prescription opioids decreased. See Coffin, May 26, 2022, Trial Tr. at 1899:15–1900:2;
 2 Coffin Decl. ¶ 24 (“[A]s prescription opioid use and prescribing decreased in SF, heroin
 3 use began to increase again.”). The massive increase in prescription opioids in the 2000s
 4 helped to increase the demand for heroin in the 2010s. See Coffin Decl. ¶ 24; Keyes Decl.
 5 ¶ 12. The link between prescription opioid use and heroin use is well established. See
 6 Coffin Decl. ¶¶ 24–27; see also P-19656 at 00051. The “most significant risk factor for
 7 heroin use is exposure to prescription opioids.” Keyes Decl. ¶¶ 53, 66–70. Multiple
 8 studies have found that approximately 70–80% of heroin users in the last two decades used
 9 prescription opioids before using heroin. Id. ¶ 18. Approximately 75% of people who
 10 suffer an opioid overdose began their opioid use with prescription opioids. Id. ¶ 10.
 11 People who stop using prescription opioids have an increased risk of transitioning to
 12 heroin. Id. ¶ 107. From 2002 to 2013, heroin use increased 138% among those who use
 13 prescription opioids. Id. ¶ 57. Like opioid abuse, heroin use affects people from all walks
 14 of life. In recent years, heroin use has increased across race, gender, and social class. See
 15 id. ¶ 56.

16 Replacement theory and the gateway effect explain the transition from prescription
 17 opioids to heroin use. See Lembke Decl. ¶¶ 153–156; Coffin, May 26, 2022, Trial Tr. at
 18 1899:11–1900:7. Replacement occurs when people are unable to obtain opioids from a
 19 medical professional and resort to heroin use to avoid the pains of withdrawal. See id. As
 20 Dr. Coffin explained, “people need opioids from somewhere. So when they can’t get them
 21 from a prescription, they end up going to the street.” Coffin, May 26, 2022, Trial Tr. at
 22 1900:3–7; see also Lembke Decl. ¶ 156. In addition, people suffering from more severe
 23 opioid addiction will seek out “more potent, plentiful, and cheaper forms over time.”
 24 Lembke Decl. ¶ 156. The foreseeable result is increased rates of heroin use and heroin
 25 overdose deaths.⁴ See Keyes Decl. ¶¶ 108, 123–26; Coffin ¶¶ 24–25.

26 _____
 27 ⁴ Defendants’ expert Douglas Tucker testified that he was not aware of any evidence that
 28 prescription opioid use serves as a “gateway” to heroin or fentanyl use. See Tucker (dkt. 1423) ¶
 40. In light of the significant and credible evidence offered at trial demonstrating that prescription
 opioid use is correlated with heroin and fentanyl use, the Court assigns Dr. Tucker’s testimony on

1 In the context of opioid addiction, the gateway effect similarly describes the
2 tendency of people suffering from opioid addiction to use stronger forms of opioids over
3 time. See Lembke Decl. ¶ 156. After developing a tolerance to prescription opioids, the
4 “natural progression” for opioid users is to transition to more powerful opioids, like heroin.
5 See id. Dr. Colwell, Chief of Emergency Medicine at Zuckerberg San Francisco General
6 Hospital (“ZSFG”), testified that “approximately two-thirds of the patients who present to
7 the [emergency department] with an opioid-related medical condition report that their
8 addiction started with pills.” Colwell Decl. ¶ 10. Many of Dr. Colwell’s opioid-addicted
9 patients “can trace very specifically their opioid use disorder and their addiction to a
10 specific event.” Colwell, April 28, 2022, Trial Tr. at 358:7–22. Dr. Colwell explained:

11 “Usually it’s an injury, a traumatic injury, or a surgery where they were prescribed
12 opioid pills, and this starts a process or a pattern that either results in their feeling
13 like those pills are no longer helping their pain and they need to seek more
14 powerful, more potent ways of managing those or they have [gotten] to the point
15 where physicians have tried to wean them off and they don’t—they’re no longer
feeling like they can do that. And so they then seek other areas, other ways to—to
manage their pain, to manage their—what they’re suffering from.”

16 Id.

17 The association between prescription opioid use and heroin use is even stronger for
18 people who use prescription opioids non-medically. Taking prescription opioids non-
19 medically makes the likelihood of using heroin significantly higher. See Keyes Decl. ¶¶
20 60–63. One study found that individuals using prescription opioids non-medically have a
21 5 times higher likelihood of using heroin than individuals who do not use prescription
22 opioids non-medically. Id. ¶ 61. A 2020 longitudinal study found that individuals who
23 used opioids medically were 2.7 times more likely to transition to heroin compared to
24 individuals who did not use opioids. Id. ¶ 63. Individuals who used opioids non-
25 medically were 6.8 times more likely to transition to heroin. Id. A different 2020 study
26 found that only 9.5% of individuals who began using heroin had “never used
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28 _____
this subject no weight.

1 pharmaceutical opioids in a non-prescribed manner” before beginning heroin use. *Id.* ¶ 64.
2 Consistent with these studies, an internal Walgreens presentation reported that “[n]early
3 80% of Americans using heroin reported misusing opioids first” and that “[i]ndividuals
4 who misuse prescription opioid pain pills are forty times more likely to abuse heroin.” P-
5 25545 at 00008. The increased rates of heroin use in San Francisco in the 2010s reflect the
6 link between prescription opioids and heroin use.

7 **c. Wave Three: Prescription Opioids, Heroin, and Fentanyl**

8 Fentanyl is cheap to produce, and it is extremely potent. Coffin Decl. ¶ 35. In the
9 mid- 2010s, drug traffickers responded to increasing demand for opioids by increasing the
10 production and distribution of black-market fentanyl. *Id.* ¶ 36. Fentanyl emerged on the
11 East Coast around 2013, and it arrived in San Francisco around 2015. Coffin, May 26,
12 2022, Trial Tr. at 1900:8–11. The lower cost and higher potency of fentanyl resulted in
13 increased demand for the drug throughout the city, especially as the supply of prescription
14 opioids decreased. *See* Coffin Decl. ¶¶ 36–37. Demand for fentanyl is a function of the
15 opioid abuse that resulted from the significantly increased supplies of prescription opioids
16 throughout the 2000s. *See id.* ¶¶ 34–36, 49; Coffin, May 26, 2022, Trial Tr. at 1900:12–
17 22; Keyes Decl. ¶ 12. Prescription opioids laid the groundwork for the current wave of
18 fentanyl abuse. Keyes Decl. ¶¶ 53, 71; Coffin Decl. ¶¶ 41–42. People began to “seek out
19 fentanyl to maintain their opioid dependence or use disorder.” Keyes Decl. ¶ 12, 74.

20 Fentanyl is deadly. While heroin generally contains only 5%–15% active drug,
21 “fentanyl is often 100% pure.” Coffin Decl. ¶ 35. It is “100 times more potent than
22 morphine” and as much as 50 times more potent than heroin. *Id.* ¶ 38; Coffin, May 26,
23 2022, Trial Tr. at 1902:18–1903:01. Compared to heroin, fentanyl is four times more
24 likely to cause an overdose, and the victims of fentanyl overdoses are on average 11 years
25 younger than the victims of heroin overdoses. Coffin Decl. ¶ 41. A dash of fentanyl—not
26 much larger than a few grains of sand—can be fatal. *See* Coffin, May 26, 2022, Trial Tr.
27 at 1903:02–11.

28 The flood of prescription opioids, heroin, and fentanyl continue to cause severe

1 harm in San Francisco. From 2015 to 2020, the number of opioid-related emergency room
 2 visits in San Francisco tripled. Coffin Decl. ¶ 40. During this time period, the number of
 3 opioid overdoses surged 478%, increasing from 101 in 2015 to 584 in 2020. See id. ¶ 39.
 4 Despite the spread of heroin and fentanyl, prescription opioids remain the leading cause of
 5 opioid overdose deaths. Id. ¶¶ 39–44. From 2010 to 2019, “prescription opioids caused as
 6 many overdose deaths as heroin and fentanyl combined.” Id. ¶ 44.

7 **3. The Opioid Epidemic’s Interference with Public Rights in San** 8 **Francisco**

9 San Franciscans grapple with the effects of the opioid epidemic every day. City
 10 workers, including park rangers, street cleaners, fire fighters, paramedics, doctors, and
 11 librarians, respond to overdoses, clean up opioid debris, and work to help those suffering
 12 from opioid addiction. Neighborhoods across the city have been devastated. Residents’
 13 use of public areas—like parks, sidewalks, and libraries—has been significantly impaired
 14 and, in some cases, ruined. Even right outside this courthouse, people suffering from
 15 severe opioid addiction buy, sell, and use opioids in plain sight. The impact on the city has
 16 been “worse than catastrophic.” Zevin, April 25, 2022, Trial Tr. at 632:4–8.

17 From 2009 to 2019, prescription opioid-related deaths in San Francisco exceeded
 18 rates across the country. See Keyes Decl. ¶ 117. ZSFG—one of the largest hospitals in
 19 the Bay Area—receives approximately 10 to 20 opioid-related overdoses each day.
 20 Colwell Decl. ¶ 1, 5. Opioid-related harms extend far beyond overdoses. Every day,
 21 ZSFG receives numerous patients suffering from serious health conditions stemming from
 22 opioid use. Id. ¶ 9. On a typical day, as many as 25% of the visits to ZSFG’s emergency
 23 room are opioid related. Id. Opioid addiction can be all consuming, and some people
 24 suffering from it neglect their basic needs, arriving at ZSFG badly dehydrated or
 25 malnourished. Lembke Decl. ¶ 4; Coffin Decl. ¶ 8; Colwell, April 28, 2022, Trial Tr. at
 26 355:13–356:14. Many people suffering from opioid addiction need treatment for “sepsis,
 27 localized infections or abscesses from unsterile injection practices[.]” Colwell Decl. ¶ 8.
 28 The number of those suffering from opioid addiction who need care for severe health

1 conditions has only continued to go up in recent years. See id. ¶¶ 4–9.

2 **a. The Fire Department’s Response to the Opioid Epidemic**

3 Sandy Tong served as a Rescue Captain in the San Francisco Fire Department’s
4 (“SFFD”) Emergency Medical Services (“EMS”) team for decades before being promoted
5 to Assistant Deputy Chief of Emergency Services in 2017. Tong Decl. ¶¶ 1–2. During her
6 many years of service in San Francisco, the opioid epidemic became “significantly worse.”
7 Id. ¶ 3. From July 2018 to March 2022, SFFD administered over 7,600 doses of naloxone
8 in response to opioid overdoses.⁵ Id. ¶ 6. This figure understates the number of overdose
9 calls because SFFD does not respond to every overdose call and not every opioid overdose
10 requires naloxone. See id. Opioid overdoses have become so commonplace in San
11 Francisco that when an SFFD paramedic encounters someone who has no pulse and is not
12 breathing, the presumption is that they have overdosed on opioids. Id. ¶ 7.

13 The number of opioid overdose calls that EMS receives is so high that EMS created
14 a team of “dedicated community paramedic response teams specifically to address the
15 crisis.” Tong Decl. ¶ 4. The paramedic teams provide immediate care and treatment to
16 residents experiencing health emergencies, and they work to connect residents “to
17 appropriate systems of care, care coordination, and follow-up care.” Id. While EMS’s
18 goal has been “to break the cycle of frequent callers who rotate from the street to the
19 emergency room and back to the street,” the majority of “individuals who die of an opioid
20 overdose in SF have had prior contact with SFFD EMS.” Id. ¶ 10. Finding “people
21 unconscious on the streets and encountering the same patients overdosing on opioids
22 multiple times” has “become ‘the new normal’” for EMS. Id. Tong testified that “for
23 those of us who have done this job for a long time, you know, when you see sort of the
24 repeated and the increasing numbers of people who die from drugs, it can be really
25 difficult. It can be depressing.” Tong, May 19, 2022, Trial Tr. at 1356:24–1357:14.

26 **b. The Department of Public Works’ Response to the Opioid**

27 _____
28 ⁵ Naloxone—commonly known by the brand name Narcan—is a highly effective medicine administered to individuals who have experienced an opioid overdose. See Tong Decl. ¶¶ 4–6.

Epidemic

1 The duration and severity of the opioid epidemic has impaired the use of streets and
2 sidewalks across the city. Carla Short, Interim Director of the San Francisco Department
3 of Public Works, oversees approximately 1,600 employees who work to keep the city’s
4 streets and sidewalks clean and free from hazards. Short Decl. (dkt. 1368) ¶¶ 2–3. The
5 opioid epidemic has made that effort significantly more challenging because of the large
6 number of opioid users who “often vomit, have diarrhea, and leave used needles in public
7 right of ways.” *Id.* ¶ 3. To improve conditions in the city, San Francisco Public Works
8 has been opening “Pit Stops” across the city since 2014. *Id.* ¶ 3. The Pit Stops are
9 monitored restrooms that also have syringe disposal kiosks. *Id.* ¶¶ 3–4. Staff members
10 who monitor the Pit Stops have been trained on how to administer naloxone and safely
11 dispose of used syringes. *Id.* ¶¶ 4–7.

12 Public Works also deploys “Hot Spot Crews” that work across the city to clean up
13 streets and sidewalks. Short Decl. ¶ 8. The Hot Spot Crews clean up needles and dispose
14 of waste. *Id.* In recent years, Hot Spot Crews and other Public Works employees have
15 collected approximately 95,000 used syringes each year. *Id.* ¶ 9; Short, May 31, 2022,
16 Trial Tr. at 1962:11–24. Members of the Hot Spot Crews are not trained first responders,
17 and they have “experienced a lot of stress and anxiety dealing with some of the impacts of
18 the epidemic.” Short, May 31, 2022, Trial Tr. at 1968:7–22; Short Decl. ¶ 9. Public
19 Works employees have been stuck with used syringes, they routinely encounter people
20 experiencing opioid overdoses on city sidewalks, and they have found the dead bodies of
21 overdose victims. *Id.* ¶ 9, 12; Short, May 31, 2022, Trial Tr. at 1967:22–1968:22. Public
22 Works has invested in mental health programs to provide support for employees who
23 experience these traumas in the course of their daily work. Short Decl. ¶ 9; Short, May 31,
24 2022, Trial Tr. at 1968:23–1969:10.

c. **The Recreation and Parks Department’s Response to the Opioid Epidemic**

25
26
27 San Francisco has over 220 parks, playgrounds, recreation centers, and sports fields,
28 all of which have been impacted by the opioid epidemic in the city. *See* Follin Decl. (dkt.

1 1367) ¶¶ 2–4, 7. Park rangers regularly see signs of opioid use in the city’s parks,
2 including used syringes, human feces, and drug-related refuse. Id. ¶ 4; Follin, May 31,
3 2022, Trial Tr. at 2066:16–2067:11. Because of increasing opioid abuse in the city’s
4 parks, park rangers are now trained on how to administer naloxone and safely collect and
5 dispose of used syringes. Follin, May 31, 2022, Trial Tr. at 2071:4–2072:15.

6 The San Francisco Recreation and Parks Department (“RPD”) has special teams to
7 help address the harms caused by opioid use across the city’s park system. The Outreach
8 Team consists of rangers who are specially trained to engage with homeless people who
9 live in San Francisco’s parks, the vast majority of whom struggle with substance abuse.
10 Follin Decl. ¶ 4. The Environmental Services team is specially trained to clean up
11 biohazards and drug paraphernalia, including used syringes and human feces, across the
12 city’s park systems. Id. ¶ 6. In 2019, the Environmental Services team collected 10,360
13 syringes from Golden Gate Park, the city’s largest park. Id. ¶ 9; Follin, May 31, 2022,
14 Trial Tr. at 2073:12–18. Follin testified that “[f]inding needles in the park is so common
15 that it is not notable, it is just a routine occurrence, like changing out the toilet paper in the
16 restrooms.” Follin Decl. ¶ 11.

17 The used syringes and opioid-related refuse interfere with the public’s ability to use
18 the city’s parks. Follin, May 31, 2022, Trial Tr. at 2075:6–22. Parts of the park system are
19 regularly closed because of the prevalence of human feces and used syringes. Follin Decl.
20 ¶¶ 11–13. Biohazards like these present serious health risks and must be removed before
21 the public can safely use the space. Id. For example, after a spending \$28 million on
22 renovations, RPD has struggled to keep the restrooms at the Margaret Hayward
23 Playground open “because needles from opioid use are being found in them every few
24 hours.” Id. ¶ 13. Parts of Civic Center Plaza—a public park in the heart of the city—must
25 be regularly “taken offline with caution tape and the doors are shut because there’s both
26 feces, the needles, and actually people using drugs in those areas [in] pretty significant
27 quantities almost on a daily basis.” Follin, May 31, 2022, Trial Tr. at 2075:23–2076:13.
28 Large numbers of needles have been “thrown in” the children’s play area at Dolores Park,

1 requiring RPD to close the area to “sift through the sand” to remove the needles and ensure
 2 that the area is safe for children to play. See id. at 2075:23–2076:4. The recently
 3 renovated McCoppin Plaza—an area designed for the public to enjoy food trucks and eat
 4 lunch outside—“had to be gated off after large numbers of needles were routinely found
 5 there.” Short Decl. ¶ 10. At Jose Coronado Park, there are “so many people who were
 6 kind of obstructing the sidewalk using drugs and spending the day just basically lying
 7 across the sidewalk and making it impossible for people to really access the park or even
 8 just walk down the sidewalk” that the city had to install “barricades to try to create a space
 9 where people could walk safely.” Short, May 31, 2022, Trial Tr. at 1971:6–17.

10 **d. The Public Library’s Response to the Opioid Epidemic**

11 Michael Lambert, the City Librarian responsible for overseeing all library services
 12 in San Francisco, testified that the opioid epidemic is one of the largest challenges facing
 13 the city’s library system. See Lambert Decl. (dkt. 1316) ¶ 4. The San Francisco Public
 14 Library system (“SFPL”) consists of 28 libraries throughout the city that have recently
 15 drawn over six million visitors each year. Id. ¶ 2. It is “one of the premier urban libraries
 16 in the country,” and a recent winner of the National Library of The Year award. Lambert,
 17 May 16, 2022, Trial Tr. at 944:2–12. The SFPL, however, has been “severely” impacted
 18 by the opioid epidemic, which has created serious health and safety risks for library
 19 visitors and staff alike. See Lambert, May 16, 2022, Trial Tr. at 944:13–945:1; Lambert
 20 Decl. ¶ 5.

21 In 2014, the SFPL updated its code of conduct to respond “to the proliferation of
 22 drug use at SFPL and inappropriate behaviors associated with it.” Lambert Decl. ¶¶ 5–6.
 23 The opioid-related issues have only “increased in frequency and degree” since then. Id. ¶
 24 8. Library staff routinely observe patrons under the influence of opioids and “have
 25 discovered patrons using and overdosing on opioids outside of the building, in the stacks,
 26 and in the bathrooms.” Id. ¶ 4. Library staff find “used needles in our restrooms, in our
 27 stacks, inside of books, on shelves, outside on the perimeter of the library.” Lambert, May
 28 16, 2022, Trial Tr. at 945:13–18. Library staff have been stuck by used syringes, and they

1 have found them in the children’s reading areas. Lambert Decl. ¶ 4. Drug users regularly
2 flush used syringes down the library toilets. Id. ¶ 10. The large volume of syringes that
3 are flushed down library toilets has caused them to overflow and has repeatedly destroyed
4 plumbing. Id. Plumbing damage has caused multiple library closures and cost SFPL tens
5 of thousands of dollars. Id. ¶ 11.

6 The city has also had to address the “substantial mental and emotional toll” that the
7 opioid epidemic has had on library staff.” Lambert Decl. ¶ 8. It is the first library system
8 in the country to hire a full-time social worker, Leah Esguerra, who helps connect library
9 visitors suffering from opioid addiction with support services. Lambert, May 16, 2022,
10 Trial Tr. at 947:14–948:10. In addition, Ms. Esguerra provides counseling to library staff
11 to help them process the emotional strain of the daily opioid use they witness and the
12 difficult encounters they have with patrons using opioids. Id. Library staff regularly see
13 “paramedics carting people out of the restrooms.” See Lambert Decl. ¶¶ 12–13. Recently,
14 a library visitor—“young and in the prime of their life”—died of an opioid overdose in a
15 bathroom and staff watched the “blue body being removed from the library.” Id. ¶¶ 12–13.
16 In January 2022, two security guards responded to reports of a man who exhibited signs of
17 opioid use and lay slumped unresponsive at a computer kiosk. Id. ¶ 24. As the guards
18 approached the man to check on him, the man’s dog attacked one of the guards, causing
19 severe injuries that “will have long-lasting negative effects on [the] guard’s health and
20 quality of life.” Id.

21 The increased drug use has also required the library to increase security. Lambert
22 Decl. ¶ 17. SFPL has contracted with the San Francisco Police Department to provide
23 officers to patrol libraries and respond to reports of opioid use and overdoses. Id. ¶¶ 17–
24 20. At the Main Library—an “anchor library” located in the heart of San Francisco—
25 SFPL employs a non-profit organization to monitor the gender-neutral bathrooms because
26 the rates of drug use in them are so high. Id. ¶ 21. A restroom monitor “knocks on the
27 door if a patron is inside for more than eight minutes, to ensure they are safe.” Id.
28 Describing the situation, Lambert testified that “I have to decide if we can keep these

1 restrooms open . . . or risk someone dying from an opioid overdose in them.” Id.

2 **4. Walgreens**

3 Walgreens is one of the largest retail pharmacy chains in the United States. From
4 2001 to 2020, Walgreens had between 7,000 to 10,000 stores across the country, almost all
5 of which have a pharmacy. Polster, June 2, 2022, Trial Tr. at 2261:25–2262:18; 2359: 6–
6 13. Walgreens employs over 200,000 employees, approximately 26,000 of whom are
7 pharmacists and approximately 80,000–90,000 of whom are technicians who support
8 pharmacists. See id. at 2360:24–2361:7. During its period of peak growth in the 2000s,
9 Walgreens aimed to open one new store per day, with the goal of having a store within five
10 minutes of approximately 75% of the United States population. Coman, May 11, 2022,
11 Trial Tr. at 704:11–24.

12 Walgreens enjoys especially large market share in San Francisco, where it is the
13 dominant chain retail pharmacy. Between 2006 and 2020, the number of pharmacies in
14 San Francisco varied, with a high of 75 stores and an average of approximately 60 stores
15 operating across the city each year. See Gerspacher Tr. (dkt. 1362–1) at 9:4–11; McCann
16 Decl. (dkt. 1328) ¶ 20, 57. Walgreens pharmacies received 58.7% of the prescription
17 opioid pills sold to chain and retail pharmacies in San Francisco. McCann Decl. ¶ 39.
18 From 2006 to 2020, Walgreens pharmacies dispensed 155,763,131 opioid pills in San
19 Francisco. Id. ¶ 57, Table 55.

20 In addition to its pharmacies, Walgreens operates distribution centers throughout
21 the country that provide medications and inventory to Walgreens stores. Coman, May 11,
22 2022, Trial Tr. at 696:25–697:4. Until 2014, Walgreens distribution centers provided
23 controlled substances, including prescription opioids, to Walgreens pharmacies. Polster
24 Decl. (dkt. 1399) ¶ 8. In 2014, Walgreens stopped distributing controlled substances and
25 began outsourcing all controlled substance distribution to third-party distributors. Id.

26 As a dispenser and distributor of controlled substances, Walgreens was at all
27 relevant times subject to the requirements of the Controlled Substances Act and its
28 implementing regulations. See generally 21 U.S.C. § 829.

5. The Controlled Substances Act

The Controlled Substances Act (“CSA”) and its implementing regulations govern the manufacture, distribution, and dispensation of controlled substances. 21 U.S.C. § 801 et seq. The CSA categorizes controlled substances into five schedules based on a drug’s risk profile and accepted medical uses. See Rannazzisi I Tr. at 405:10–408:10. Schedule I drugs may not be prescribed because they have high potential for abuse and no currently accepted medical use. Catizone Decl. (dkt. 1299) ¶ 6. Schedule II drugs are the most dangerous drugs that may be dispensed: they have a high potential for abuse—including risks of psychological or physical dependence—but they also have accepted medical use. Id. ¶¶ 6–7. Schedule III and IV drugs have moderate to low potential for abuse. Id. Most prescription opioids are Schedule II drugs, but a minority are Schedule III or IV drugs. Id. ¶ 7; Rannazzisi I Tr. at 407:14–408:10; Catizone Decl. ¶¶ 6–7.

The CSA and its implementing regulations determine what persons and entities are authorized to make, distribute, prescribe, and dispense controlled substances. Rannazzisi I Tr. at 410:08–413:1. Every person or entity that manufactures, distributes, prescribes, or dispenses controlled substances must apply for registration with the DEA. See 21 U.S.C. § 822(a)(1)–(2). The DEA “shall register an applicant” unless it determines “that the issuance of such registration is inconsistent with the public interest.” Id. § 823(b). Manufacturers and distributors must renew their DEA registrations every year, and pharmacies and prescribers must renew their registration every three years. See id. § 822(1)–(2).

Requiring entities to register with the DEA creates a “closed system of distribution” for controlled substances. Catizone Decl. ¶ 6. Under the closed system, each person or entity in the controlled substance supply chain is a DEA registrant, enabling the DEA to monitor the flow of controlled substances from manufacture to dispensation. See Rannazzisi I Tr. at 412:16–413:1; 436:10–437:17. DEA-registered manufacturers sell to DEA-registered distributors that sell to DEA-registered dispensers. Id. at 410:8–413:01. DEA-registered dispensers may only dispense controlled substance prescriptions pursuant

1 to prescriptions written by DEA-registered prescribers. Id.

2 The closed system of distribution aims to secure the controlled substance supply
3 chain against diversion. See Rannazzisi I Tr. at 436:10–437:25. Diversion happens when
4 controlled substances are taken from “the legitimate stream of commerce and moved into
5 the illicit marketplace.” Id. at 381:23–382:5. Registrants are subject to regulations that
6 require them to take steps to prevent diversion of controlled substances. See 21 C.F.R. §
7 1301.74 (a); P-03669 at 00002. For example, they have regulatory obligations to securely
8 house controlled substances. See 21 C.F.R. § 1301.72. Each registrant is also subject to
9 regulatory requirements that are specific to their role in the controlled substance supply
10 chain. See Rannazzisi I Tr. at 410:8–411:15.

11 **B. Walgreens Distribution Operations**

12 **1. DEA Oversight of Distributor Operations**

13 Under the CSA and its implementing regulations, distributors of controlled
14 substances must maintain a suspicious order monitoring system that identifies suspicious
15 orders. See Rannazzisi I Tr. at 419:10–21. Suspicious orders identified through these
16 systems must be reported to the DEA. Id. The relevant provision of the CSA regulations
17 states:

18 “The registrant shall design and operate a system to disclose to the registrant
19 suspicious orders of controlled substances. The registrant shall inform the Field
20 Division Office of the Administration in his area of suspicious orders when
discovered by the registrant.”

21 21 C.F.R. § 1301.74(b).

22 The CSA’s implementing regulations define a “suspicious order” as “a controlled
23 substance order that is of unusual size, unusual frequency or substantially deviating from
24 the normal ordering pattern.” See id.; see also Rannazzisi I Tr. at 421:5–12; P-03670 at
25 00001. Determining whether an order is suspicious is a context-based inquiry that requires
26 consideration of the totality of the circumstances. See Mapes Tr. at 87:21–88:10. A
27 distributor must “inform the Field Division Office of the Administration in his area of
28

1 suspicious orders when discovered by the registrant.” 21 C.F.R. § 1301.74(b).

2 To identify suspicious orders, the regulations require distributors to “design and
3 operate a system to disclose to the registrant suspicious orders of controlled substances.”
4 21 C.F.R. § 1301.74(b). No regulation defines the specific aspects of the system that
5 distributors must use to monitor and report suspicious orders. Rannazzisi I Tr. at 419:10–
6 421:03; Mapes Tr. at 82:12–21. Rather, it is the responsibility of the registrant to
7 determine what type of suspicious order monitoring system is “correct for their business
8 model or how they are doing business[.]” See Rannazzisi I Tr. at 419:10–421:03; see also
9 P-03670. The main determinant of an effective suspicious order monitoring system is that
10 it effectively identifies and reports suspicious orders. See Rannazzisi I Tr. at 420:23–
11 421:3.

12 The DEA’s guidance on reporting suspicious orders changed in the mid-2000s. See
13 Mapes I Tr. at 92:1–126:14. In the fall of 2005, in the wake of diversion of controlled
14 substances through “internet pharmacies,” DEA officers began meeting with distributors to
15 provide updated guidance on the process for reporting suspicious orders. Rannazzisi II Tr.
16 at 40:12–18; 107:1–16; Mapes I Tr. at 130:12–131:15. Internet pharmacies enabled
17 patients to obtain prescriptions for controlled substances through an online process, as
18 opposed to in person visits with a doctor. See Mapes I Tr. at 130:12–131:15. The DEA
19 was concerned that the internet pharmacies presented risks for diversion because there was
20 no doctor-patient relationship and “the pharmacies were filling prescriptions for patients
21 that they knew nothing about, for doctors that weren’t within the geographic area, all for
22 the same drug.” See id.; see also id. at 214:5–215:10.

23 Prior to fall of 2005, distributors sent DEA field offices “excessive purchase”
24 reports, which were reports of controlled substance purchases that the distributors found to
25 be potentially excessive. Mapes I Tr. at 91:18–94:3; Wright I Tr. at 69:23–71:13. The
26 excessive purchase reports sent to the DEA were for orders that had already been shipped
27 to customers. Mapes I Tr. at 96:9–22; Wright I Tr. at 113:23–116:12. Having distributors
28 send excessive purchase reports to the DEA was the standard practice for registrants to

1 report suspicious orders in that time period, and the DEA considered the practice sufficient
2 to comply with registrant’s statutory obligation to report suspicious orders. Mapes I Tr. at
3 93:21–96:22; Wright I Tr. at 75:2–9.

4 The DEA launched the “Distributor Initiative” in late 2005 to change the process by
5 which distributors reported suspicious orders. See Mapes I Tr. at 125:3–130:23. The
6 initiative involved a series of presentations to distributors regarding the DEA’s changed
7 position on the expectations for suspicious order reporting. See id. at 132:8–133:20;
8 188:14–189:9; 197:23–198:12. Instead of sending excessive purchase reports at the end of
9 the month, the DEA informed distributors, including Walgreens, that it expected them to
10 begin identifying and reporting suspicious orders before shipping them. See id. at 189:15–
11 23; 197:23–203:24. The DEA communicated to distributors that they were expected to
12 perform an assessment to determine whether an order was in fact suspicious, as opposed to
13 sending the DEA reports of all orders that exceeded certain thresholds. Id. at 203:9–
14 208:10; Wright I Tr. at 103:1–110:19. The DEA did not require distributors to change
15 their suspicious order reporting practices by a specific date. Mapes II Tr. (dkt. 1437–2) at
16 518:10–520:21. But its expectation was that distributors would begin making the changes
17 following the meetings with DEA agents. See Mapes II Tr. at 518:10–520:21; Wright I Tr.
18 at 123:2–125:16.

19 In 2006 and 2007, Joe Rannazzisi, the Deputy Assistant Administrator of the DEA’s
20 Office of Diversion Control, sent letters to every entity registered with the DEA to
21 distribute controlled substances, including Walgreens. Rannazzisi I Tr. at 428:6–430:22;
22 see also P-00015 at 00002. The letters reiterated that every entity registered to distribute
23 controlled substances has a duty under the CSA to identify and report suspicious orders,
24 and the letters provided further guidance on identification and reporting requirements.
25 Rannazzisi I Tr. at 428:6–430:10. Rannazzisi testified that he sent the letters in part
26 because he was concerned that distributors were not maintaining systems to identify
27 suspicious orders and were not reporting suspicious orders. See id. at 416:9–417:9. He
28 was also concerned about the growing problem of prescription opioid abuse in the United

1 States. Id. at 433:13–434:9.

2 Rannazzisi sent the first letter in September 2006. It emphasizes that the abuse of
3 controlled prescription drugs is “a serious and growing health problem in this country.” P-
4 03669 at 00001. The letter reiterates distributors’ statutory responsibility “to exercise due
5 diligence to avoid filing suspicious orders that might be diverted” for illegitimate use,
6 provides a non-exclusive overview of circumstances that may indicate suspicious orders
7 from a pharmacy customer, and states that distributors have a statutory duty to timely
8 report suspicious orders to the DEA. Id. at 00002.

9 Rannazzisi sent another letter in December 2007. It focuses on the importance of
10 reporting suspicious orders to the DEA and resolving any indicia of suspicion before
11 shipping the order. See P-27368. The letter makes clear that sending a monthly report of
12 completed orders to the DEA is not sufficient. Id. It specifically states that “[f]iling a
13 monthly report of completed transactions (e.g., ‘excessive purchase report’ or ‘high unity
14 purchases’) does not meet the statutory requirement to report suspicious orders.” Id. In
15 addition, the letter states that registrants “must conduct an independent analysis of
16 suspicious orders” before filling them. Id. at 00002–03. The letter further states that
17 suspicious order monitoring systems that rely on “rigid formulas” to identify suspicious
18 orders are insufficient. Id. at 00003. Determining whether an order is suspicious “depends
19 not only on the ordering patterns of the particular customer, but also on the patterns of the
20 registrant’s customer base and the patterns throughout the relevant segment of the
21 regulated industry.” Id. The letter concludes that filling “orders without first determining
22 that order is not being diverted . . . may be failing to maintain effective controls against
23 diversion.” Id.

24 2. Walgreens Distribution Centers

25 Until 2014, Walgreens operated three distribution centers in the United States that
26 distributed prescription opioids to Walgreens pharmacies.⁶ Coman, May 11, 2022, Trial

27 _____
28 ⁶ The distribution centers no longer distribute controlled substances to Walgreens pharmacies, but they continue to distribute other medications and inventory items to Walgreens stores. See Polster

1 Tr. at 695:25–697:4; Polster I Tr. at 326:4–16. The distribution centers were in
 2 Perrysburg, Ohio, Jupiter, Florida, and Woodland, California. Coman, May 11, 2022,
 3 Trial Tr. at 695:25–696:14. The Woodland facility, which is the primary distribution
 4 center for Walgreens pharmacies in San Francisco, distributed controlled substances to
 5 approximately 2,500 stores across 25 different states. Id. 695:25–696:24.

6 From 2006 to 2014, Walgreens distributed 102.4 million dosage units of opioids to
 7 its pharmacies in San Francisco. McCann Decl. ¶ 10, 37. But Walgreens was not the
 8 exclusive distributor to its pharmacies. Polster Decl. ¶ 5. The company also used third
 9 party distributors, including Cardinal Health, AmerisourceBergen, and McKesson, to fill
 10 orders from its pharmacies. See McCann Decl. ¶ 12. Walgreens did not distribute
 11 controlled substances to third parties, including other chain pharmacies, independent
 12 pharmacies, or hospitals. Polster Decl. ¶ 5.

13 Before 2012, the evidence showed that Walgreens Woodland distribution center
 14 periodically generated a suspicious order report to identify suspicious controlled substance
 15 orders. Coman, May 11, 2022, Trial Tr. at 708:12–22. The report used a “DEA” factor
 16 that was multiplied by a store’s average monthly order volume to identify suspicious
 17 orders. See P-27553; Coman, May 11, 2022, Trial Tr. at 711:1–17. For example, if the
 18 average monthly order for a store is six and the DEA factor is three, then a monthly order
 19 that exceeds 18 is flagged as suspicious. See id.; see also Coman, May 11, 2022, Trial Tr.
 20 at 708:12–22. There was no evidence presented at trial about how Walgreens developed
 21 the DEA factor that it used to identify suspicious orders.

22 The evidence established that the system for monitoring suspicious orders used at
 23 Walgreens Woodland distribution center was deficient. Using a DEA factor that identified
 24 suspicious orders based on fixed thresholds contravened the DEA’s direction to apply a
 25 holistic review to identify suspicious orders. See P-27368 at 00002–03. In addition, the
 26 evidence established that Walgreens shipped the suspicious orders that appeared on its
 27

28 _____
 Decl. ¶8.

1 suspicious order report without any investigation. Joe Ferry, who managed distribution of
2 controlled substances at the Woodland distribution center, testified that Walgreens
3 corporate managed suspicious order monitoring, not his team at the distribution center.⁷
4 Ferry Tr. (dkt. 1485–1) at 38:7–39:2 (“[F]rom my understanding [] there were controls in
5 place at corporate level, that they handled that.”); see also id. at 344:13–345:6. Ferry
6 testified that to the extent that personnel at the distribution center reviewed controlled
7 substance orders, it was to make sure that the order had been entered correctly and that a
8 pharmacy had not accidentally ordered far more or less than intended. Id. at 48:10–51:20.

9 John Coman, the “buck stops here” General Manager of the Woodland distribution
10 center, testified that he was not aware of any employees at the distribution center who used
11 the suspicious order report to reduce orders for controlled substances that were shipped to
12 pharmacies. Coman, May 11, 2022, Trial Tr. at 721:8–21. Coman also testified that he
13 was not aware of any training for distribution center employees on how to review and
14 resolve suspicious orders. Id. at 739:16–740:6; see also Lucas Tr. at 612:4–5; 615:19–23.
15 In response to the question, “did Walgreens allocate to you, as manager of the Woodland’s
16 distribution center, resources necessary to identify, monitor, and perform due diligence on
17 suspicious orders,” Coman testified, “No.” Coman, May 11, 2022, Trial Tr. at 741:19–
18 742:1.

19 In contrast to the testimony of Coman and Ferry, Tasha Polster, Head of Walgreens
20 Pharmaceutical Integrity Team, testified that Walgreens distribution centers—not
21 Walgreens corporate—were responsible for suspicious order monitoring before 2012. See
22 Polster Decl. ¶ 6 (“Walgreens’ suspicious order monitoring system was conducted by
23 distribution center personnel.”). Polster’s testimony on this point is not credible. Ferry,
24 who managed controlled substance orders at Walgreens’ Woodland distribution center,
25 testified that the distribution center did not oversee suspicious order monitoring. See Ferry

26
27 ⁷ “Walgreens corporate” refers to the company’s corporate offices located in Deerfield, Illinois.
28 The corporate offices oversees pharmacy operations and develops policies and processes that are
implemented at Walgreens stores and pharmacies throughout the United States. Polster, June 2,
2022, Trial Tr. at 2258:3–18.

1 Tr. at 38:7–39:2; 344:13–345:6. And Coman, the general manager of the Walgreens’
2 Woodland distribution center, testified that the distribution center shipped orders that had
3 been identified as suspicious without any investigation in violation of 21 C.F.R. § 1301.74.
4 Coman, May 11, 2022, Trial Tr. at 725:15–727:20. In light of this testimony, Polster was
5 pressed during cross-examination on the basis of her understanding that distribution
6 centers—not corporate—oversaw suspicious order monitoring. Polster, June 2, 2022, Trial
7 Tr. at 2349:25–2353:23. Polster provided no specifics as to the basis of her understanding
8 that distribution centers were responsible for maintaining systems that identified and halted
9 suspicious orders, and her answers were vague and evasive. See id. Coman and Ferry, on
10 the other hand, were the Woodland distribution center managers who oversaw fulfillment
11 of controlled substance orders, and their answers were unambiguous. Given their direct
12 involvement in the process and their straightforward answers, the Court credits their
13 testimony over Polster’s. Consistent with this finding, the following evidence showed that
14 neither Walgreens corporate nor its distribution centers maintained effective suspicious
15 order monitoring systems for years.

16 3. Walgreens’ Failure to Monitor and Report Suspicious Orders

17 In 2006, a DEA audit of Walgreens’ Perrysburg, Ohio distribution center found that
18 Walgreens’ suspicious order monitoring system was “insufficient.” P-09128 at 00004. In
19 particular, the DEA found that the “DEA factor” that Walgreens used to identify
20 suspicious orders was “inadequate.” Id. at 00002. The DEA found that simply using a
21 DEA factor to identify suspicious orders was insufficient and that Walgreens needed to
22 develop a suspicious order monitoring system that captured orders based on size, pattern,
23 and frequency. Id. at 00002, 00004; see also P-27368 (“Registrants that rely on rigid
24 formulas to define whether an order is suspicious may be failing to detect suspicious
25 orders.”).

26 Two years later, in 2008, Walgreens’ Internal Audit team audited the Perrysburg
27 distribution center. See P-19904. The Internal Audit team concluded that the deficiencies
28 that the DEA had identified in the suspicious order monitoring system had not been

1 resolved. Id. at 00001. Specifically, the audit team found that “Walgreens is filling orders
2 that have been deemed suspicious without performing any research to ascertain the
3 legitimacy of the order, which could lead to non-compliance with DEA regulation Section
4 1301.74.” Id. at 00004. The audit team noted that the deficiencies in “suspicious
5 controlled drug order processing and reporting” existed across all of the company’s
6 distribution centers and “should be addressed to avoid potential DEA sanctions.” Id. at
7 00001.

8 In January 2008, Walgreens’ Internal Audit team performed an audit of the
9 Woodland distribution center. See P-20656 & P-20657. Coman testified that the audit
10 team was composed of subject matter experts who had access to all internal documents and
11 all employees who worked at the Woodland distribution center. Coman, May 11, 2022,
12 Trial Tr. at 722:3–724:19. One of the main purposes of the audits was to assess whether
13 the distribution center was complying with federal regulations. Id. at 724:23–725:1.

14 As was the case with the Perrysburg audit, the audit team “found non-compliance
15 with certain DEA regulations.” P-20656 at 00002. Among the forms of non-compliance,
16 the audit team found “numerous instances” where the Woodland distribution center was
17 shipping “suspicious controlled substance orders” without performing any investigation.
18 Id. The audit team also found that “there is no monitoring process in place to stop a
19 suspicious order to assess if the order is suspicious or not.” Id. The audit team concluded
20 that “filling orders that have been deemed suspicious without performing any research to
21 ascertain the legitimacy of the order [] could lead to non-compliance with DEA Regulation
22 Section 1301.74.” P-20657 at 00002. Walgreens’ management responded to the audit
23 report by setting a deadline of June 2008 for the Woodland distribution center to address
24 the deficiencies. Id.

25 The deficiencies identified in the internal audit were not resolved by June 2008.
26 Coman, May 11, 2022, Trial Tr. at 730:23–731:10; P-27384. In the fourth quarter of
27 Walgreens’ 2011 fiscal year, the Internal Audit team performed a follow-up audit of the
28 Woodland distribution center. See Coman, May 11, 2022, Trial Tr. at 735:20–739:8. The

1 audit found that the Woodland distribution center still did not have a system in place to
2 prevent fulfillment of orders identified as suspicious on the suspicious order report. Id.
3 The deficiencies in Walgreens’ suspicious order monitoring system identified in the 2008
4 internal audit remained three years later. Id. at 739:1–8. (Q. “And here we are three years
5 later, and they are still concerned about Walgreens not having a monitoring process in
6 place; correct, sir?” A. “Correct.”).

7 Walgreens presented evidence that DEA agents performed in person audits of the
8 Woodland distribution center approximately every two years. Coman, May 11, 2022, Trial
9 Tr. at 760:24–761:4; see also Ferry Tr. at 323:14–25. During the audits, DEA agents set
10 up a workspace in the distribution center and requested various reports. Coman, May 11,
11 2022, Trial Tr. at 763:20–764:4. Michael Mapes, a former DEA Diversion Investigator,
12 testified that reviewing a distributor’s suspicious order monitoring system was a standard
13 part of the DEA audits. Mapes I Tr. at 49:22–51:12. And Coman testified that he did not
14 recall the DEA ever identifying any issues with Woodland’s suspicious order monitoring
15 system. Coman, May 11, 2022, Trial Tr. at 764:7–766:17; 771:6–9.

16 Walgreens’ internal audits, on the other hand, repeatedly found that the company’s
17 suspicious order monitoring systems were deficient. See P-20657 & P-27384. Coman
18 also testified that the DEA audits focused mainly on whether there was adequate physical
19 security for controlled substances and whether any controlled substances had been lost.
20 Coman, May 11, 2022, Trial Tr. at 764:7–766:17; 771:6–9. Furthermore, Coman testified
21 that he met with DEA agents as part of the DEA’s audit and—despite being aware of
22 deficiencies in Walgreens’ suspicious order monitoring systems—he did not tell the agents
23 that the company had identified deficiencies or that the deficiencies persisted for several
24 years. Id. at 771:16–773:11. The Court finds that the specific evidence showing
25 deficiencies in suspicious order monitoring systems carries more weight than the testimony
26 about what the DEA’s audits generally included. That the DEA audits apparently did not
27 identify deficiencies in Walgreens’ suspicious ordering monitoring system does not
28 establish that deficiencies did not exist, especially because Walgreens’ own documents

1 show that they did.

2 Between 2009 and 2012, Walgreens began a phased roll out of a new Controlled
3 Substances Reporting (“CSR”) system to identify suspicious orders. See Polster Decl. ¶ 6.
4 The CSR system “provided a centralized means of reviewing orders for controlled
5 substances placed by Walgreens pharmacies and identifying orders that might be of
6 concern.” Id. Polster testified that the CSR system used historical ordering patterns from
7 groups of stores to assign ceiling limit thresholds for each store within the group. Id. ¶ 7.
8 But she could not describe in any detail how the ceiling limits were set. She testified that
9 she could only speak in “generalities” about the ceiling limits and that she did not know
10 any specifics about how Walgreens determined the numerical ceiling assigned to each
11 store. See Polster, June 2, 2022, Trial Tr. at 2271:14–2275:11.

12 The evidence also showed that the CSR system could be circumvented. Although
13 the CSR system set “ceiling limits” that capped the amount of controlled substances a
14 pharmacy could order, field leadership and Walgreens corporate executives could approve
15 orders that exceeded the ceiling limits. Polster, June 2, 2022, Trial Tr. at 2269:2–2270:4.
16 In fiscal years 2014 and 2015, Walgreens approved over 95% of the requests for orders
17 that exceeded ceiling limits. Id. at 2331:8–2332:2. There were other ways around the
18 ceiling limits. Walgreens pharmacies could place “PDQ” orders—company shorthand for
19 orders that are needed “pretty darn quick”—and PDQ orders did not count against a
20 pharmacy’s ceiling limit. See id. at 2332:19–2333:20. Pharmacies could also place “inter-
21 store” orders, where one pharmacy sends controlled substances to another pharmacy. Id. at
22 2334:8–21. Until 2013, a Walgreens pharmacy could receive controlled substances from
23 another pharmacy without those orders counting against its ceiling limit. Id.

24 Dan Coughlin, a Walgreens Vice President of Supply Chain, contemporaneously
25 expressed concern that suspicious orders were not being reviewed prior to the launch of the
26 CSR system. P-00058 at 00001. In a 2010 email to members of Walgreens’ corporate
27 compliance team, Coughlin, referring to suspicious controlled drug orders, wrote, “Who
28 from your group has been reviewing the data collected for the past twenty-five years?”

1 See id. The record does not contain a response. Consistent with Coughlin’s concern that
2 suspicious orders were not being reviewed, Walgreens employees worried that once the
3 CSR system was implemented across all stores, it was “expected to generate thousands of
4 ‘orders of interest’ per week” that “will all require review prior to allowing the drugs to be
5 shipped to our pharmacies.” P-00027 at 00001. Internally, people raised concerns about
6 the company’s ability to perform due diligence on these orders because they had only 10
7 employees on the compliance team. See Polster Trial Tr. at 2395:05–2396:06. An email
8 from Pharmaceutical Integrity Manager Edward Bratton confirms the deficiencies in
9 Walgreens’ prior suspicious order monitoring system. In 2013, Bratton wrote:

10 “The previous system would continue to send additional product to the store
11 without limit or review which made possible the runaway growth of dispensing of
12 products like Oxycodone, that played a roll [sic] in the DEAs investigation of
13 Walgreens.”

14 P-00139 (emphasis added).

15 As Walgreens was rolling out the CSR system, the DEA served an Immediate
16 Suspension Order on the Jupiter, Florida distribution center. The order required the Jupiter
17 distribution center to immediately suspend all distribution of controlled substances based
18 on findings that the distribution center’s violations of the CSA created an imminent threat
19 of harm to public health and safety. P-00015 at 00001; see also 21 U.S.C. §§ 823, 824.
20 Kristine Lucas, who was the Controlled Substances Manager at the Jupiter distribution
21 center when the suspension order was served, testified that the DEA shut down the
22 distribution center because of the extraordinarily massive volumes of opioids that it was
23 receiving and shipping to Walgreens pharmacies. See Lucas Tr. (dkt. 1339–1) at 612:16–
613:12; 630:8–633:2; 635:15–636:15; 658:17–659:10.

24 Lucas testified that Walgreens pharmacies began ordering increasingly large
25 volumes of opioids from the Jupiter distribution center starting in 2010. See Lucas Tr. at
26 623:14–625:20. She testified, “I’d send this store 30 bottles a week. And then, it went to
27 90 bottles a week, and then 300 bottles a week, and then 600 bottles a week, and it just
28 kept progressing more and more and more.” Id. The Jupiter distribution center had a

1 secure cage where controlled substances were stored, but the increasingly large orders for
2 opioids exceeded the cage's capacity. Id. at 629:1–13. To manage the influx of orders,
3 distribution center personnel first took all the shelves out of the secure cage so that boxes
4 of opioids could be stacked from floor to ceiling. Id. This solution did not last. Even with
5 boxes stacked from floor to ceiling, the secure cage could not fit all of the opioids that the
6 distribution center was receiving. Id. at 629:9–24. Distribution center personnel began
7 stacking pallets of opioids outside of the secure cage. Id. at 629:1–630:3.

8 Delivering the growing volumes of opioids to pharmacies also required the
9 distribution center to use bigger trucks. The standard trucks used to fill pharmacy orders
10 did not provide enough space, so the distribution center began using a “box truck with no
11 shelves . . . that you could stack floor to ceiling.” Lucas Tr. at 626:13–21. Lucas raised
12 concerns with pharmacists about the rapidly increasing orders. She testified that
13 pharmacists “would call wanting a large number of bottles. And I’m like, I – I just sent
14 you 300 bottles. You need 300 more? It’s been three days, you know.” Id. at 631:3–17.
15 Lucas asked pharmacists if they were concerned that they were filling suspicious
16 prescriptions and they told her, “I’m not a pharmacist, and that they were pharmacists, and
17 they said if somebody brings me a script, I’m going to fill it.” Id. at 631:18–632:1. She
18 asked pharmacists if they were doing due diligence on prescriptions, and she testified that
19 “I was told that was not their job. They have a script, they will fill it.” Id. at 632:2–10.

20 Lucas repeatedly expressed concern to her managers that the opioid orders were not
21 being securely stored and that Walgreens pharmacies were ordering concerning high
22 volumes of opioids. Lucas Tr. at 630:8–633:2; 635:15–636:15; see also P-00004 (“I ran a
23 query to see how many bottles we have sent to store #3836 and we have shipped them
24 3271 bottles between 12/1/10 and 1/10/11. I don’t know how they can even house this
25 many bottle[s] to be honest.”). Her concerns went unaddressed, and Lucas described the
26 situation as “a ticking time bomb.” Lucas Tr. at 635:15–636:9.

27 On September 13, 2012, the DEA issued its order directing that Walgreens
28 immediately suspend all distribution of controlled substances. P-00015 at 00001. The

1 suspension order was based on the distribution center’s failure to monitor for suspicious
2 orders and to securely house controlled substances. See P-00015 at 00028–40. Lucas
3 testified that approximately 20 agents arrived at the distribution center, “came in and shut
4 down the operation.” Lucas Tr. at 658:17–659:10. Distribution center personnel were
5 directed to return all unshipped controlled substance orders to the secure cage, and after
6 the orders were returned, DEA agents changed the combinations for the cage and set up
7 workspaces at the facility. Id. at 659:3–23. Controlled substances shipments from the
8 Jupiter distribution center never resumed. Id. at 666:13–16.

9 In 2014, Walgreens stopped distributing controlled substances to its pharmacies
10 entirely. It now uses third-party distributors that receive and fill controlled substance
11 orders from Walgreens pharmacies. Polster Decl. ¶ 8; Coman, May 11, 2022, Trial Tr. at
12 745:22–746:4.

13 **C. Walgreens Pharmacy Operations**

14 **1. Pharmacy Regulations and Industry Standards**

15 In California, a medical professional must be registered with the DEA and licensed
16 by the state in order to write prescriptions for controlled substances. 21 C.F.R. § 1306.03;
17 Cal. Health & Safety Code § 11150. Under both California and federal law, a medical
18 professional can only write a controlled substance prescription if they believe, based on
19 their medical judgment, that the drug is an appropriate form of treatment for a patient’s
20 medical condition. Cal. Health & Safety Code § 11153; 21.C.F.R. § 1306.04(a); see also
21 Rannazzisi I Tr. at 1574:18–1576:17. California law requires a pharmacy to fill a valid
22 prescription that has been issued for a legitimate medical purpose by a prescriber acting
23 within their scope of practice. Cal. Bus. & Prof. Code § 733(a).

24 A prescription that is not for the purpose of treating a patient’s medical condition is
25 an illegitimate prescription. See 21 C.F.R. § 1306.04(a). Two sources of illegitimate
26 prescriptions are unscrupulous prescribers and drug-seeking patients. Unscrupulous
27 prescribers—often referred to as “pill mills”—write medically unnecessary prescriptions
28 for patients, often in exchange for cash payment. See Keyes Decl. ¶ 88; Mathews Porter

1 (dkt. 1362–7) at 101:12–23. Drug-seeking patients also deceive prescribers into writing
 2 unnecessary prescriptions in a variety of ways, including by faking symptoms and visiting
 3 multiple prescribers to obtain multiple prescriptions for the same condition. See Keyes ¶
 4 87; see also Besinque Decl. ¶ 26. Illegitimate prescriptions are not used to treat a medical
 5 condition—they are generally abused by the recipient or sold illegally. See Rannazzisi II
 6 Tr. at 195:9–24; Rannazzisi I Tr. at 426:6–427:2. When an illegitimate prescription is
 7 filled, the drugs are diverted because they are not being obtained for a legitimate medical
 8 use. See Catizone Decl. ¶¶ 10–11.

9 Under the CSA’s implementing regulations, pharmacists have a “corresponding
 10 responsibility” to determine whether a prescription for a controlled substance is written for
 11 a legitimate medical purpose before dispensing it. 21.C.F.R. § 1306.04(a) (“The
 12 responsibility for the proper prescribing and dispensing is upon the prescribing
 13 practitioner, but a corresponding responsibility rests with the pharmacist who fills the
 14 prescription.”) (emphasis added). While the corresponding responsibility requires
 15 pharmacists to perform due diligence on controlled substance prescriptions, pharmacies
 16 also have a duty to ensure that the corresponding responsibility is being fulfilled.
 17 Catizone, May 12, 2022 Trial Tr. at 796:5–25. Pharmacies are DEA registrants and are
 18 subject to CSA regulations. Rannazzisi I Tr. at 1579:3–1580:20. Pharmacists are the
 19 agents of a pharmacy, and the pharmacy is responsible for their conduct.⁸ Id. (“[I]t’s
 20 ultimately the responsibility of the pharmacy for whatever the pharmacist is doing.”); see
 21 also id. at 1710:03–20. In this regulatory framework, pharmacies act as the “last line of
 22 defense” for guarding against diversion by providing their pharmacists with the training
 23 and resources needed to ensure that pharmacists only dispense legitimate prescriptions for
 24 controlled substances. See Catizone Decl. ¶ 10.

25 Pharmacists are highly trained medical professionals who generally have “six to
 26

27
 28 ⁸ Depending on the conduct at issue, pharmacists themselves may also be subject to individual disciplinary proceedings with the state board of pharmacy in their practicing jurisdiction and they may also be subject to criminal charges. See Rannazzisi I Tr. at 1579:21–1580:20.

1 eight years of training in drugs and medication therapy” before they begin practicing. See
 2 Catizone, May 12, 2022 Trial Tr. at 797:7–14; Polster Decl. ¶ 10. A pharmacist’s
 3 education includes drug interactions, what drugs are used to treat certain diseases, and the
 4 appropriate dose and duration of drugs used to treat specific conditions. Catizone, May 12,
 5 2022 Trial Tr. at 797:7–25. Prescribers and pharmacists “work together” to ensure that
 6 patients receive the appropriate treatment for their medical conditions. See id. at 797:7–
 7 799:1. The role of the pharmacist includes confirming the accuracy of a doctor’s
 8 prescription, checking to see whether the prescription is likely to have any adverse
 9 interactions with other drugs the patient may be taking, and advising the patient on how to
 10 take the prescription. See id.; see also Polster Decl. ¶ 11.

11 The corresponding responsibility requires pharmacists to draw on their education,
 12 training, and experience to assess whether a prescription was issued for a legitimate
 13 medical purpose before dispensing it. Besinque Decl. ¶¶ 9–10; Catizone, May 12, 2022
 14 Trial Tr. at 796:5–11. In practice, pharmacists fulfill their corresponding responsibility by
 15 identifying and resolving any signs “arising during the presentation of a prescription” that
 16 create “a reasonable suspicion that the prescription is not, on its face, legitimate.”
 17 Catizone Decl. ¶ 16; Besinque Decl. ¶¶ 9–10. Signs that a prescription may be illegitimate
 18 are commonly referred to a “red flags.” See Besinque Decl. ¶ 9. Red flags are “warning
 19 signs” indicating that “further inquiry” is required. Catizone, May 12, 2022 Trial Tr. at
 20 841:4–22; Catizone Decl. ¶ 16. Any red flags present on the face of a prescription must be
 21 resolved before the prescription is dispensed. Polster Decl. ¶ 14; Park (dkt. 1317) Decl. ¶
 22 8; P-15314 at 00029. If a pharmacist cannot resolve a red flag, the prescription cannot be
 23 dispensed. See Park Decl. ¶ 8; Stahmann Tr. at 96:4–22; Catizone Decl. ¶ 23.

24 A red flag does not mean that a prescription is illegitimate. See Catizone, May 12,
 25 2022 Trial Tr. at 838:23–839:2; Besinque Decl. ¶ 9. Red flags are signs that a prescription
 26 might be illegitimate, but a pharmacist can sometimes resolve a red flag through due
 27 diligence. Catizone, May 12, 2022 Trial Tr. at 801:2–12; Besinque Decl. ¶¶ 9–10.
 28 Generally speaking, the due diligence process involves four steps: identify any red flags,

1 obtain information relevant to resolving the red flags, evaluate the information, and
 2 document the reasons supporting filling or refusing to fill the prescription. Catizone Decl.
 3 ¶ 24, 36; Park, June 16, 2022, Trial Tr. at 962:9–23; Park Decl. ¶ 7.

4 Throughout their career, pharmacists balance their obligation to dispense legitimate
 5 medications to patients who need them with their obligation to identify and refrain from
 6 filling medically illegitimate prescriptions that pose risks of diversion, abuse, and harm.
 7 Polster, June 2, 2022, Trial Tr. at 2281:4–23.

8 **2. Walgreens Pharmacy Operations**

9 From 2006 to 2020, Walgreens operated approximately 50 to 75 pharmacies in San
 10 Francisco. See Gerspacher Tr. at 9:4–11; McCann Decl. ¶ 20, 57. This section provides a
 11 general overview of Walgreens pharmacy operations.

12 **a. Pharmacy Staffing**

13 In general, Walgreens assigns “two and a half” pharmacists to each San Francisco
 14 pharmacy.⁹ See Polster, June 2, 2022, Trial Tr. at 2263:11–17; 2296:2–10. Walgreens
 15 pharmacies generally operate from 8 am to 9 pm; one pharmacist opens the store while the
 16 other pharmacist comes in mid-day to provide a lunch break and to close the store.¹⁰ Id. at
 17 2296:11–2302:12. Pharmacist technicians help the pharmacists perform their work. Id.
 18 The technicians are not licensed pharmacists—they cannot approve prescriptions—but
 19 they help pharmacists with various tasks, including receiving prescriptions, performing
 20 drug interaction reviews, and collecting insurance information. See WAG-MDL-
 21 01662.00007.

22 Walgreens determines staffing at its pharmacies based on the volume of
 23

24 ⁹ The “half” pharmacist is a pharmacist who work at multiple pharmacies. Polster, June 2, 2022,
 25 Trial Tr. at 2263:11–17. These are referred to as “floater” pharmacists. While more pharmacists
 26 may be assigned to 24-hour pharmacies, there was no evidence that any Walgreens pharmacy in
 San Francisco operates 24 hours per day.

27 ¹⁰ As a point of comparison, the ZSFG pharmacy has far more staff performing due diligence
 28 before filling a prescription than Walgreens pharmacies. While Walgreens pharmacies have 1-2
 pharmacists and 2-4 pharmacy technicians working on a regular day, the ZSFG pharmacy has
 seven pharmacists and ten pharmacy technicians working on a regular day. Patel, May 19, 2022,
 Trial Tr. at 1321:1–11.

1 prescriptions filled at a pharmacy and the time that it takes to fill different types of
2 prescriptions. Polster Decl. ¶ 36. Walgreens' Labor and Capacity Department determines
3 the staffing levels at the pharmacies. Id. The Labor and Capacity Department performs
4 analyses of the expected time necessary to complete certain tasks and uses these analyses
5 to set store staffing. Id. Pharmacy Managers who believe the staffing for a particular store
6 is insufficient can request additional staffing. Id.

7 **b. Dispensing Process**

8 Walgreens pharmacies receive prescriptions in three main ways: electronically,
9 telephonically, or in person drop-off. Lo, May 12, 2022, Trial Tr. at 924:12–927:16;
10 Polster Decl. ¶ 35. Each prescription that arrives at a Walgreens pharmacy is assigned a
11 “promised time.” Id. The promised time is the time by which the pharmacist is expected
12 to have the prescription ready for the patient to pick up. Id. Promised times are generally
13 assigned by Walgreens' computer system, but pharmacists may also set promised times.
14 Lo, May 12, 2022, Trial Tr. at 924:12–927:16; Polster Decl. ¶ 35. A pharmacist's ability
15 to meet promised time is a factor relevant to the pharmacist's year-end review and bonus.
16 Polster Decl. ¶ 35. However, Walgreens excluded promised times for controlled
17 substances from the bonus calculations starting in 2013. Id. ¶ 36.

18 Walgreens pharmacists use a system called IntercomPlus (“IC+”) to dispense
19 prescription medications. Polster Decl. ¶ 26; Polster, June 2, 2022 Trial Tr. at 2412:11–15.
20 Each patient has a patient profile, and the patient's history of prescriptions are associated
21 with the profile. Id. A patient's history of prescriptions includes information such as “the
22 name of the medication, the dose, the quantity, the doctor's name and address, the date the
23 prescription was written, the date it was filled, and any notes on the prescription.” Id.

24 The IC+ interface enables pharmacists to document notes regarding patients,
25 prescribers, and prescriptions. Polster Decl. ¶ 26. Walgreens pharmacists across different
26 pharmacies can access the notes regarding a particular patient or prescription. Id. If a
27 pharmacist refuses to fill a prescription because they are unable to resolve a red flag
28 associated with the prescription, Walgreens' dispensing policy directs the pharmacist to

1 document the refusal to fill in the patient comment section of the IC+ interface. Polster,
 2 June 2, 2022 Trial Tr. at 2415:11–2416:22. If a patient whose prescription is refused at
 3 one Walgreens attempts to fill the prescription at a second Walgreens, the pharmacist at
 4 the second Walgreens is able to see the refusal to fill notation in the patient comment
 5 section. Id. at 2421:1–2424:2.

6 **c. Walgreens’ Good Faith Policy**

7 Tasha Polster, Walgreens’ Head of Pharmaceutical Integrity Team, explained that
 8 the “guiding principle” underlying Walgreens’ controlled substance dispensing policies is
 9 that pharmacists are “licensed professionals who must exercise their own professional
 10 judgment in deciding whether to fill a prescription for a controlled substance.” Polster
 11 Decl. ¶ 12. To guide pharmacists in the exercise of their professional judgment, the
 12 company has a policy regarding controlled substance dispensing called the Good Faith
 13 Dispensing Policy (“Good Faith Policy”). Id. at ¶ 13. The Good Faith Policy has been in
 14 place at Walgreens for over 30 years, though it has changed over time. Polster, June 2,
 15 2022, Trial Tr. at 2282:1–10. One of the main purposes of the Good Faith Policy is to
 16 provide pharmacists with guidance on how to identify and resolve red flags. See Polster
 17 Decl. ¶¶ 12–13.

18 Four different iterations of the Good Faith Policy were introduced at trial: the 1998,
 19 2006, 2011, and 2012 policies. See WAG-MDL-00018; WAG-MDL-01756; WAG-MDL-
 20 00211; WAG-MDL-00304. While all four versions of the Good Faith Policy include
 21 guidance on how to identify and resolve red flags, the guidance became significantly more
 22 detailed over time. See Polster Decl. ¶ 14. The following sections describe how the Good
 23 Faith Policy’s guidance on red flags evolved from 1998 to 2012.

24 **i. 1998 Policy**

25 The 1998 Good Faith Policy is a one-page policy that states that a “pharmacist must
 26 determine if a prescription for a controlled substance is dispensed for a legitimate medical
 27 purpose.” See WAG-MDL-00018. The policy includes examples of various “questionable
 28 circumstances” that should alert a pharmacist to a suspicious prescription. Id. The

1 questionable circumstances include high volume prescribers, frequent filling patients, large
2 volumes or dosages, traveling unusual distances, and regular prescribing of habit-forming
3 drugs. Id. The policy states that if a pharmacist becomes aware of questionable
4 circumstances that they cannot resolve, they should “[n]ot dispense the drug” and should
5 “[n]otify the pharmacy supervisor.” Id.

6 **ii. 2006 Policy**

7 Walgreens updated the Good Faith Policy in 2006. WAG-MDL-01756. The 2006
8 policy is a two-page policy that lists the same “questionable circumstances” as the 1998
9 policy. Id. However, the 2006 policy provides updated guidance on how pharmacists
10 should handle prescriptions that present “questionable circumstances.” Id. The policy
11 directs pharmacists to “[c]ontact the prescriber to confirm or clarify the prescription,” and
12 “[i]f the prescriber confirms the validity of the prescription, document this on the hard
13 copy and process the prescription as normal.” Id. If a prescriber informs the pharmacist
14 that the prescription is not authorized, the pharmacist should not dispense the prescription
15 and should keep a copy of the prescription. Id. The policy allows the pharmacist to return
16 the original prescription “to the patient upon the patient’s request.” Id.

17 **iii. 2011 Policy**

18 Walgreens updated the Good Faith Policy again in 2011. The 2011 policy is also
19 two pages, but it includes additional examples of “questionable circumstances” that should
20 alert a pharmacist to a potentially suspicious prescription. See WAG-MDL-00211. The
21 additional questionable circumstances include “[c]onsistent requests for early refills” and
22 “[u]nusual presentation – prescriber’s handwriting too legible, written in different color
23 inks, different handwriting or with erasure marks.” Id. The policy also includes updates
24 on the steps that a pharmacist should take to resolve questionable prescriptions. Id. The
25 policy states that before calling a prescriber to confirm a prescription, the pharmacist
26 should verify the identity of the patient and verify the validity of the prescriber’s
27 information “including the DEA number and state license number.” Id. If both are
28 confirmed, the pharmacist should contact the prescriber to verify the prescription. Id. The

1 policy states that if the prescriber “confirms the validity of the prescription,” the
2 pharmacist should “then process the prescription as normal.” Id.

3 **iv. 2012 Policy**

4 The 2012 policy runs seven pages and includes extensive revisions compared to the
5 earlier iterations of the policy. See WAG-MDL-00304; Polster, June 2, 2022, Trial Tr. at
6 2287:2–13. The policy expands the procedures that pharmacists must use to validate a
7 prescription, including more detailed directions on the process for checking prescription
8 drug monitoring programs.¹¹ WAG-MDL-00304. In addition to the validation process,
9 the policy adds a non-exhaustive list of indicators of suspicious prescribing that a
10 pharmacist should consider in evaluating a prescription. Id. The indicators include
11 patient-related concerns (e.g. “Consistently request early refills? Exhibit ‘drug seeking’
12 type behaviors?”), prescriber-related concerns (e.g. “Operate as a ‘cash only’ business and
13 not accept government or 3rd party insurance as payment? Abusive or threatening?”), and
14 prescription-related concerns (e.g. “Appear to be altered or forged? Contain
15 misspellings?”). See id. (cleaned up).

16 In addition, although earlier versions of the Good Faith Policy state that verifying a
17 prescription with a prescriber is sufficient due diligence, the 2012 Good Faith Policy states
18 that “[e]ven if the prescriber verifies that the prescription is valid, it is the pharmacist’s
19 responsibility to confirm that the elements of good faith dispensing are satisfied prior to
20 dispensing.” WAG-MDL-00304.00002. If a pharmacist determines that the good faith
21 elements are not met, they should not dispense the prescription, even if the prescriber
22 informs the pharmacist that the prescription is valid. Id. at 00304.0004. The 2012 policy
23 further states that “[i]t is imperative that pharmacists document all efforts used to validate
24 good faith dispensing.” Id. The policy lists examples of the type of information that

25 _____
26 ¹¹ A prescription drug monitoring program (“PDMP”) is a statewide electronic database that is
27 maintained by a state agency and contains data on controlled substance dispensing across the state.
28 WAG-MDL-03189.00012. California’s PDMP is called CURES. Polster Decl. ¶ 28. Checking a
PDMP is part of the process of determining a prescription’s legitimacy. See Besinque Decl. ¶¶
19–21. For example, checking CURES would show whether a patient has received the same
prescription from different prescribers. See id.; Besinque, June 6, 2022, Trial Tr. at 2574:7–14.

1 Walgreens expects its pharmacists to document, including prescriber information, patient
2 information, and “any information pertaining to the elements of good faith.” Id.

3 **d. Monitoring Compliance with The Good Faith Policy**

4 Walgreens’ field leadership is key to overseeing compliance with the company’s
5 Good Faith Policy. See Polster Decl. ¶ 30. The field leadership team includes pharmacy
6 supervisors and district managers who oversee the operation of pharmacies. Id. One of
7 the main responsibilities of the field leadership team is to visit the pharmacies within an
8 assigned territory to review pharmacy operations and compliance measures. Id. The visits
9 are known as “Store Walks,” and members of the field leadership team use a “Store Walk
10 Summary” checklist to guide their review of a store. See, e.g. WAG-MDL-03098. With
11 regard to dispensing practices, the summary checklists ask, “Is the pharmacy following the
12 Good Faith Dispensing policy?” See id.

13 **3. DEA Actions against Walgreens Pharmacies**

14 In the late 2000s and early 2010s, Walgreens was subject to multiple DEA
15 enforcement actions based on charges that its pharmacies failed to implement and maintain
16 adequate policies to prevent dispensing of suspicious prescriptions. In September 2009,
17 the DEA issued an order for Walgreens to show cause as to why the certificate of
18 registration for a San Diego, California pharmacy should not be revoked. P-20642 at
19 00001. The show cause order was based on the charges that:

- 20
- 21 • Since at least January 2007, Walgreens dispensed controlled substances to
22 individuals located in California based on prescriptions issued by physicians
23 who were not licensed to practice medicine in California. Id. at 00001.
 - 24 • Walgreens dispensed controlled substances to individuals located in California
25 based on purported prescriptions issued by physicians for other than a legitimate
26 medical purpose and/or outside the usual course of professional practice in
27 contravention of 21 C.F.R. § 1306.04(a). Id. at 00002.
 - 28 • Controlled Substance Utilization Review and Evaluation System (“CURES”)
data revealed that Walgreens also dispensed controlled substances to individuals

1 that Walgreens knew or should have known were diverting the controlled
2 substances. Id.

3 In 2011, Walgreens entered a memorandum of agreement with the DEA to resolve
4 the September 2009 show cause order. See P-19651 at 00008. The terms of the agreement
5 applied “to all current and future Walgreens walk-in, retail pharmacy locations registered
6 with the DEA to dispense controlled substances” (i.e., Walgreens nationally), and required
7 Walgreens to strengthen its due diligence policies and improve the training and resources
8 that it provides to pharmacists regarding how to identify and resolve suspicious
9 prescriptions. Id. at 00002.

10 In 2012, the DEA issued multiple show cause orders to Walgreens’ pharmacies in
11 Florida, based in part on the charge that its pharmacies “ignored readily identifiable red
12 flags that controlled substances were being diverted and dispensed controlled substances
13 despite unresolved red flags.” See P-19716 at 00002, 000010–11, and 00016. The red
14 flags identified by the DEA included “multiple patients coming with prescriptions for the
15 same drugs in the same quantities coming from the same doctor; patients traveling long
16 distances to the pharmacy; patients with the same address presenting substantially similar
17 prescriptions; and patients presenting combinations of controlled substances known to be
18 highly abused, such as oxycodone and alprazolam.” See id. at 00016, 00023, and 00034.

19 In 2013, Walgreens entered into a memorandum of agreement with the DEA to
20 resolve the charges that its pharmacies in Florida violated the CSA by filling illegitimate
21 prescriptions for controlled substances. See generally P-00015. In the memorandum of
22 agreement, Walgreens acknowledged that “certain Walgreens retail pharmacies did on
23 some occasions dispense certain controlled substances in a manner not fully consistent
24 with its compliance obligations under the CSA.” Id. at 0002. To resolve the charges,
25 Walgreens agreed to:

- 26 • Implement and maintain policies and procedures to ensure that prescriptions for
27 controlled substances are only dispensed to authorized ultimate users pursuant to
28 federal and state law and regulations.

- 1 • Direct and train its pharmacists that their corresponding responsibility under
- 2 federal law requires them not to fill a prescription that such pharmacist knows or
- 3 has reason to know was issued for other than a legitimate medical purpose or by
- 4 a practitioner acting outside the usual course of professional practice.
- 5 • Remove controlled substance prescriptions from the dispensing volumes used to
- 6 calculate bonuses for pharmacists.

7 P-00015 at 00006; P-17195; Polster, June 2, 2022, Trial Tr. at 2356:12–18.

8 **4. Walgreens Pharmaceutical Integrity Team**

9 The 2013 DEA settlement required Walgreens to create a Pharmaceutical Integrity
 10 Team to develop and implement policies and procedures around controlled substance
 11 dispensing. Polster, June 2, 2022, Trial Tr. at 2354:3–2356:3. The team’s mandate was to
 12 develop training programs and processes to better enable pharmacists to fulfill their
 13 corresponding responsibilities when dispensing controlled substances. See id.; Stahmann
 14 Tr. at 14:22–31:24.

15 Walgreens appointed Tasha Polster as the Head of the Pharmaceutical Integrity
 16 Team. See Polster Decl. ¶ 2. Even though the 2013 DEA memorandum of agreement set
 17 forth in detail the violations of the CSA that Walgreens pharmacies committed, Polster
 18 only read 13 pages of the 349-page agreement. See Polster, June 2, 2022, Trial Tr. at
 19 2362:4–12. When asked “do you understand in the next 336 pages that there is significant
 20 detail walking through the numerous problems at Walgreens,” Polster testified, “I haven’t
 21 read this entire document.” Polster I Tr. at 61:17–22. In response to the question “[y]ou
 22 didn’t read over 90% of this document, correct,” Polster answered, “Correct.” Id. at
 23 75:22–24.

24 The Pharmaceutical Integrity Team developed the Target Drug Good Faith
 25 Dispensing Policy (“Target Drug list”), which Walgreens began implementing in 2013.
 26 See Polster Decl. ¶ 20; see also WAG-MDL-00365; WAG-MDL-00547. The Target Drug
 27 list required pharmacists to complete a due diligence checklist before dispensing three
 28 “target drugs”: oxycodone, methadone, and hydromorphone. Stahmann Tr. at 38:3–19;

1 Polster II Tr. at 30:10–16; WAG-MDL-00547. Walgreens expected its pharmacists to
2 apply both the Good Faith Policy and the Target Drug list before dispensing the target
3 drugs. Polster Decl. ¶ 20. In explaining how Walgreens selected the three drugs that it
4 placed on the checklist, Polster testified that the DEA “had expressed the greatest concern
5 for diversion and overdose risk” for oxycodone, hydromorphone, and methadone and that
6 the checklist served “to ensure consistency among our pharmacists in documenting the
7 process for these drugs.” Id.

8 In fact, the Target Drug list omitted some of the most frequently dispensed and
9 widely abused opioids in the United States. Catizone Decl. ¶43. The most conspicuous
10 omission from the Target Drug list was hydrocodone, which “was the number one
11 prescribed, dispensed, and abused drug in the United States” at the time the Target Drug
12 list was created. Catizone, May 12, 2022, Trial Tr. at 810:17–811:6. From 2012 to 2013,
13 the DEA gave a series of regional presentations around the country to alert registrants
14 about the risks of opioid abuse and diversion. Polster, June 2, 2022, Trial Tr. at 2374:23–
15 2375:7. These presentations identified hydrocodone as the most “commonly abused
16 controlled pharmaceuticals.” P-19656 at 00004, 00046. The presentation described
17 hydrocodone as a frequent starting point in a “circle of addiction,” where opioid users
18 progress from abuse of hydrocodone to more potent and dangerous opioids, including
19 heroin. See id. The DEA presentation identified oxycodone as a commonly abused
20 controlled substance, but it does not identify the other two drugs on Walgreens’ Target
21 Drug list—methadone and hydromorphone—as among the commonly abused opioids. Id.
22 at 00004. As the Head of the Pharmaceutical Integrity Team, Polster attended one of the
23 DEA presentations, and she circulated takeaways from the presentation among the “highest
24 levels” of Walgreens. See Polster, June 2, 2022, Trial Tr. at 2375:1–18.

25 Despite being aware that hydrocodone was a frequently prescribed and commonly
26 abused opioid, the Pharmaceutical Integrity Team did not include it on the Target Drug
27 list. Polster, June 2, 2022, Trial Tr. at 2380:3–20; Stahmann Tr. at 40:19–41:1. Polster
28 testified that the decision was based in part on the fact that adding hydrocodone to the

1 target drug list “would have increased the number of paper forms that the pharmacist had
2 to fill out.” See Polster II Tr. at 313:24–314:7; Polster, June 2, 2022, Trial Tr. at 2385:4–
3 24. Financial considerations also influenced the creation of the Target Drug list, because
4 adding frequently prescribed drugs would have increased the time and labor costs
5 associated with performing due diligence. See Polster, June 2, 2022, Trial Tr. at 2385:4–
6 2386:3; 2387:2–16; see also P-20639 at 00011–12.¹² From January 2006 to June 2020,
7 hydrocodone prescriptions accounted for 49.1% of the opioid prescriptions dispensed at
8 Walgreens pharmacies in San Francisco. P-29837 at 00002.

9 In addition to omitting the most commonly abused opioid in the country, the Target
10 Drug list was cumbersome to use, because pharmacists were required to complete a paper
11 checklist—as opposed to an electronic document—until 2019. Polster II Tr. at 46:21–52:6
12 (“The checklist is not in the computer system.”). Because the checklist was a paper record
13 rather than an electronic file, information that pharmacists collected during the due
14 diligence process—which included information relating to red flags—was not stored in
15 any centralized computer system that was accessible to pharmacists across different
16 Walgreens pharmacies. Id. at 52:19–53:11; 71:2–13. Instead, completed Target Drug
17 checklists were stored in literal file cabinets at each pharmacy. Id. at 53:24–54:12.
18 Because the paper checklists were stored in file cabinets at individual pharmacies, the
19 information on the checklist was not readily accessible to pharmacists outside of the store
20 where the checklist was kept. See id. at 53:12–23; 58:25–59:9; 73:2–13; Polster, June 2,
21 2022, Trial Tr. at 2396:14–24; 2398:1–20.

22 In fact, information collected through the Target Drug checklists was not even
23 readily accessible to pharmacists at the store where the checklist was kept. The checklists
24 were difficult to access because pharmacists, pursuant to Walgreens’ policy, organized the
25 checklists by prescription number, not patient name. See Polster II Tr. at 57:18–58:24.

26 _____
27 ¹² Polster also testified that hydrocodone was not added to the Target Drug list because it was a
28 Schedule III drug, but shortly after the Target Drug list was created, the DEA reclassified
hydrocodone as a Schedule II drug. Polster II Tr. at 299:3–9. Walgreens did not add it to the
Target Drug list.

1 Locating a paper checklist required a pharmacist to look up the patient’s name, identify the
2 prescription number for the past prescription that had an associated checklist, and retrieve
3 the checklist from the file cabinet. See id. From 2013 to 2019, a pharmacist who wanted
4 to locate the Target Drug list associated with a previously dispensed prescription had to
5 complete this manual process to retrieve the paper checklist from a file cabinet. See id.

6 Walgreens’ executives repeatedly denied requests from the Pharmaceutical Integrity
7 Team to develop an electronic Target Drug checklist. See P-20795; Polster II Tr. at 52:7–
8 18. Shortly after taking the helm of the Pharmaceutical Integrity Team in 2012, Polster
9 requested an electronic record-keeping process “to make things efficient and easier for the
10 filling pharmacist.” Id. at 62:11–21. The request was denied. Id. Polster testified that
11 digitizing the due diligence process “did not get priority.” Polster II Tr. at 263:13–18;
12 267:5–19; see also P-20795 at 00001 (November 2019 email in which Polster states “I
13 have been wanting to do this from day one and Kermit wouldn’t let me so this is a huge
14 win for my team and the field.”). The main reason was cost. See Polster, June 2, 2022,
15 Trial Tr. at 2396:24–2397:25. Polster testified that “year after year,” she submitted a
16 budget request that included funding to digitize the Target Drug list, but Walgreens’
17 President repeatedly denied the requests. See id. at 2396:7–2397:25. Instead, Walgreens
18 pharmacists used paper checklists—stored in file cabinets—for six years. See id. at
19 2396:7–13; Polster II Tr. at 52:7–53:11.

20 In response to questions about why it took Walgreens six years to implement an
21 electronic record-keeping system “to make things better, simpler, faster for our pharmacy
22 team members,” Polster testified that Walgreens was in the process of waiting for a “new
23 computer system” and that it did not want to perform “throw-away work” by creating an
24 electronic record-keeping system before the “new computer system” was ready. See
25 Polster II Tr. at 256:24–267:19. But Polster provided no details as to why it took six years
26 for Walgreens to develop a “new computer system,” nor did she provide any detail about
27 what other functionality the “new computer system” provided. Although developing a
28 “new computer system” may partly explain the delay, the evidence established that at least

1 part of the reason it took Walgreens six years to implement an electronic Target Drug
2 checklist was that spending additional money on compliance was not a priority for the
3 company, even though it would have made “things better, simpler, faster” for Walgreens
4 pharmacists. See P-20795.

5 Pharmacists faced additional challenges in attempting to follow the Target Drug list.
6 Walgreens’ policy directed pharmacists who refused to fill a prescription for a target drug
7 to note the refusal in the Patient Comment section of Walgreens’ IC+ computer system.
8 See P-20789 at 00038. Adding notations to the Patient Comment section enabled one
9 pharmacy to see that another pharmacy had refused to fill a prescription. Polster II Tr. at
10 321:20–322:8. But the Patient Comment section only held 320 characters, which limited
11 pharmacists’ ability to note their due diligence. See Catizone Decl. ¶ 48. In April 2013,
12 pharmacists expressed concern that they were “running out of room” to add notations to
13 the Patient Comment section. P-20801 at 00001. In response, the Pharmaceutical Integrity
14 Team directed pharmacists to “delete older comments or refusals.” Id.; Polster II Tr. at
15 321:10–18; 328:11–329:21.

16 Polster testified that even though historical comments were being actively deleted,
17 pharmacists could still look up hardcopy paper files stored in the file cabinets at their store
18 to locate previously completed refusal to fill forms. See Polster II Tr. at 328:11–329:6.
19 She also testified that they could call other pharmacies to ask the pharmacists to look
20 through the hardcopy paper files stored in the file cabinets at their store to determine
21 whether a prescription from a particular prescriber had previously been refused. See id.
22 None of the evidence at trial established that either was a reasonable substitute for
23 lengthening the comment field. As Catizone explained, “As a pharmacist, I’m filling
24 prescriptions. Even in the same store, I may not know that the pharmacist who worked
25 three days before me refused to dispense a prescription because I don’t have an electronic
26 record of that prescription. It’s paper.” See Catizone, May 12, 2022, Trial Tr. at 803:16–
27 24.

28 Deleting the existing patient comments also made it more challenging to investigate

1 the legitimacy of new prescriptions. See, e.g., Lo Decl. ¶ 19 (“I remember very clearly
2 that one day all of my prescriber comments disappeared. This was very frustrating and
3 made my job much harder.”); Kamali Tr. at 69:17–70:5 (“[O]ne day I noticed they were all
4 wiped out.”). Members of the Pharmaceutical Integrity Team recognized that the character
5 and storage limitations created barriers for pharmacists performing due diligence. See
6 Stahmann Tr. at 83:8–84:1. But Walgreens did not expand the comment field beyond 320
7 characters or develop other ways for pharmacists to better preserve the records of their due
8 diligence.

9 Walgreens also instructed pharmacists not to write any comments that were critical
10 of prescribers in the IC+ system, even though these comments were intended to flag
11 concerns about a doctor’s prescribing practices. See Lo Decl. ¶¶ 16–19 (“Walgreens
12 instructed pharmacists to keep notes brief and to omit anything potentially negative.”); P-
13 27332 at 00001 (“[P]lease note the comment of ‘Candy Doc’ has been removed from all
14 prescriber profiles.”); P-17229 at 00001 (“Any comments such as ‘prescriber under
15 investigation’ in the prescriber’s profile should be removed.”).

16 **a. Impediments to Identifying Suspicious Prescribers**

17 There was no standard process for alerting other Walgreens pharmacies about
18 suspicious prescribers. Lo Decl. ¶¶ 16–19 (“Even when suspicious prescribers were
19 identified, Walgreens offered no effective way to spread that information.”). The inability
20 to share information about suspicious prescribers across Walgreens pharmacies made it
21 challenging to perform consistent due diligence. See Mathews Porter Tr. at 103:16–104:5.
22 Several Walgreens pharmacists testified that one pharmacy would stop filling prescriptions
23 for a particular prescriber only to learn that nearby Walgreens pharmacies were filling
24 prescriptions from the same prescriber. Mathews Porter Tr. at 103:16–104:5; Yagar Tr. at
25 69:17–75:20. Walgreens pharmacies operated in information silos.

26 This need not have been so. Walgreens had access to large volumes of prescribing
27 data that could have been used to identify suspicious prescribing trends. See Polster, June
28 2, 2022, Trial Tr. at 2303:7–21. In 2014, the Pharmaceutical Integrity Team developed

1 “an internal portal” that provided insights on prescriber’s prescribing patterns. Stahmann
2 Tr. at 67:3–20. The portal included data indicative of red flags, like high quantity
3 prescriptions or early refills. Id. at 79:17–80:14. But Walgreens chose to make the portal
4 available only to “field leadership,” not to store pharmacists. Id. at 67:21–68:8. Eric
5 Stahmann, a Manager on the Pharmaceutical Integrity Team, testified that Walgreens did
6 not provide the data directly to pharmacists out of a concern that it would “cloud” their
7 decisions about “whether or not to fill or not to fill a prescription.” Id. at 68:9–1. In
8 addition, Polster claimed that there was no need to provide pharmacists with a tool that
9 flagged high frequency prescribers because if a pharmacist was filling prescriptions
10 “multiple times in a day for the same prescriptions for the same prescriber,” that would
11 naturally be a red flag for a pharmacist. Polster II Tr. at 144:12–145:11. But Polster
12 conceded that a pharmacist “wouldn’t have easy visibility” into prescriptions from a high
13 prescriber that were filled by other pharmacists, including pharmacists who worked in the
14 same store. See id. at 145:13–146:17.

15 The Pharmaceutical Integrity Team also had access to information about prescribers
16 across the entire chain of Walgreens stores. Stahmann Tr. at 102:15–103:2. The data
17 included the total number of prescriptions filled by a prescriber as well as the percentage
18 of prescriptions for controlled substances versus non-controlled substances. Id. at 104:22–
19 105:6. The Pharmaceutical Integrity Team could rank prescribers based on their rates of
20 prescribing relative to their peers. See id. at 106:2–15. Access to information regarding
21 prescribing rates and related data would have helped pharmacists perform dispensing due
22 diligence. As one example, before dispensing a prescription for a controlled substance, the
23 Good Faith Policy required pharmacists to consider information such as “whether or not
24 the prescriber prescribes the same diagnosis for the majority” of prescriptions and
25 “whether the prescriber commonly writes narcotic prescriptions for individuals between 18
26 and 35.” See Polster II Tr. at 148:12–24. These criteria require consideration of aggregate
27 information, but there were no automated tools at the pharmacy-level for pharmacists to
28 use in making these assessments. Polster II Tr. at 148:25–15. Pharmacists lacked

1 resources that would enable them to follow Walgreens’ policy.

2 Unlike Walgreens, other retail pharmacy chains—like Walmart and Rite Aid—
3 prohibited their pharmacies from filling prescriptions from certain prescribers determined
4 to be suspicious. See Stahmann Tr. at 132:22–134:15; Mathews Porter Tr. at 106:16–
5 107:02. In contrast, Walgreens’ policy is to not “block a prescriber that had an active DEA
6 and state license,” regardless “of [the] prescriber’s prescribing history.” Stahmann Tr. at
7 14:01–06; 134:03–06; P-25638 at 00001. Its exceptions to the policy are extremely
8 limited. Polster testified that Walgreens may block pharmacies from filling prescriptions
9 from an individual prescriber if the prescriber’s “office was indeed raided, it was
10 completely shut down, we may potentially block their prescriptions from being filled.”
11 Polster, June 2, 2022, Trial Tr. at 2305:01–2306:01. With the limited exception of DEA
12 raids that resulted in a prescriber’s office being completely shut down, Walgreens did not
13 block prescriptions from specific prescribers, no matter the volume of controlled substance
14 prescriptions that they wrote.¹³ See id.

15 Because it did not implement a program for categorically blocking prescriptions
16 from suspicious prescribers, Walgreens pharmacies continued to fill prescriptions from
17 prescribers whom other retail pharmacy chains blocked. For example, Eric Stahmann, a
18 Manager on the Pharmaceutical Integrity Team, received a question from a Walgreens
19 Regional Healthcare Director about how to handle a doctor whose prescriptions were
20 categorically blocked at three other chain pharmacies. P-29904 at 00002. Despite
21 determining that 4,134 opioid prescriptions written by the doctor had been filled at
22 Walgreens pharmacies in the past 90-day period and that the doctor ranked in the “100th
23 percentile for oxycodone, 99th percentile for hydrocodone, and 98th percentile for
24 buprenorphine” prescribing, Stahmann instructed that the doctor’s prescriptions should
25

26 ¹³ Walgreens ran a pilot program to test blocking certain prescribers, but it did not adopt the
27 program. Polster, June 2, 2022, Trial Tr. at 2305:01–2306:01; Polster Decl. ¶ 24. Polster testified
28 that the company did not implement the program nationwide largely out of concern that it would
intrude on pharmacists’ ability to exercise their own judgment in evaluating prescriptions. Polster
Decl. ¶ 24; Stahmann Tr. at 127:20–131:13.

1 continue to be evaluated on a case-by-case basis. Id. at 00001–02. Stahmann further
 2 directed the Regional Healthcare Director to “advise the pharmacy staff to refrain from
 3 entering any slanderous comments in the prescriber’s IC+ profile and stick with generic
 4 comments such as ‘verify GFD.’” Id. at 00001.

5 **5. Walgreens’ Systemic Failure to Perform Due Diligence on Opioid** 6 **Prescriptions**

7 The DEA actions brought in the late 2000s and early 2010s against Walgreens
 8 identified systemic deficiencies in Walgreens’ due diligence policies and processes. The
 9 creation of the Pharmaceutical Integrity Team did not resolve these systemic deficiencies,
 10 and these deficiencies continued to hamstring pharmacists’ ability to perform adequate due
 11 diligence before dispensing prescription opioids. The evidence at trial established that
 12 Walgreens failed to provide its San Francisco pharmacists with the time, training, and
 13 resources needed to consistently perform adequate due diligence on opioid prescriptions
 14 before dispensing them. The evidence at trial established that pharmacists experienced
 15 constant time pressure, inadequate staffing, lack of training, insufficient resources, and
 16 misaligned incentives, all of which severely limited their ability to perform due diligence.

17 **a. Time Pressure**

18 Intense time pressure impeded pharmacists’ ability to perform due diligence. The
 19 time pressure largely resulted from the promised times assigned to each prescription.
 20 Because the pharmacies received such high volumes of prescriptions, pharmacists had to
 21 work through breaks and limit their due diligence in an attempt to keep up with demand.

22 From 2010 to 2021, Victor Lo worked as a pharmacist at a Walgreens store in San
 23 Francisco’s Bayview neighborhood. Lo Decl. ¶ 1. The Bayview pharmacy was “very
 24 busy” and to stay on top of the prescriptions they were receiving, pharmacists had to work
 25 “morning to evening non-stop.” Lo, May 12, 2022, Trial Tr. at 915:7–23. Completing
 26 prescriptions by the assigned “promised time” was a “monumental” task. Id. at 918:14–
 27 919:4. Lo testified that he “operated under tremendous pressure to fill prescriptions and
 28 fill them quickly” and that the working environment prevented him “from devoting the

1 time needed for thorough due diligence, which put our patients in danger.” Lo Decl. ¶ 1;
2 Lo, May 12, 2022, Trial Tr. at 918:17–919:4 (“Everything was about numbers, always.”).

3 Rebecca Gayle worked as a Walgreens staff pharmacist at six different stores in San
4 Francisco’s Mission neighborhood from October 2012 to January 2016. Gayle Tr. (dkt.
5 1340–1) at 9:15–11:18. Like Lo, Gayle testified that she “constantly felt like there was a
6 pressure to fill, fill, fill and that was what the company cared about most, was the message
7 that I got.” Id. at 17:1–4. In an effort to fill the high volumes of prescriptions that the
8 pharmacy received, Gayle “skipped virtually all of [her] breaks for years” and “also I
9 would routinely work off the clock.” Id. at 16:5–19:15; 38:4–12. She testified that
10 “[t]oward the end of my time at Walgreens, I worked most days off the clock probably for
11 an hour extra unpaid.” See id. She explained that:

12 “[I]f you spent too long doing things that didn’t result in dispensing of a
13 prescription I felt that your manager – your relationship with your manager would
14 be negative. And you worked alongside with them every day. So the potential for
15 retaliation and just the horrible daily work life if your manager didn’t like you or
16 thought you were prioritizing the wrong thing, that potential for retaliation and just
17 making an already hard day that much harder was very real.”

18 Id. at 35:4–15.

19 Christy Mathews Porter worked as a pharmacist at Walgreens stores in Redding,
20 California.¹⁴ Mathews Porter Tr. at 134:24–137:4. Like Lo and Gayle, she experienced
21 time pressures at Walgreens pharmacies “all the time.” Id. at 54:6–8. The time pressure
22 stemmed in part from the “promised time” that was assigned to the prescriptions sent to the
23 pharmacies. Id. at 19:19–20:8. The promised time created an intensely demanding work
24 environment, as pharmacists rushed to manage the constant inflow of new prescriptions.

25 _____
26 ¹⁴ In addition to pharmacists who worked at Walgreens stores in San Francisco, the Court heard
27 testimony from three pharmacists who worked at Walgreens pharmacies elsewhere California—
28 Golnaz Kamali, Robert Yagar, and Christy Mathews Porter. Taken alongside the other evidence
presented at trial, the testimony from these pharmacists supports the finding that many of the
issues that prevented Walgreens pharmacies from performing adequate due diligence were
systemic and impacted pharmacies across the country. See, e.g., Mathews Porter Tr. at 13:13–
14:10 (testifying that the policies in place across Walgreens stores are the same).

1 See id. at 24:22–25:17. In addition, pharmacists’ ability to meet the promised time was a
2 factor that Walgreens used in their reviews, that impacted their bonuses, and that affected
3 their relationships with their supervisors. See id. As a result, Mathews Porter testified that
4 pharmacists are “strapped for time all the time. You work in flight or fight mode. It’s
5 constant stress.” Id. at 68:24–69:2.

6 Robert Yagar has worked as a pharmacist at Walgreens pharmacies in Southern
7 California for over two decades. Yagar Tr. (dkt. 1363–1) at 8:24–10:10. Yagar testified
8 that there is a constant pressure to fill prescriptions that affects pharmacists’ ability to
9 perform due diligence. Id. at 54:1–55:11. Like Lo, Gayle, and Mathews Porter, Yagar
10 attributed the pressure to the desire to provide good customer service and to the “promised
11 times” assigned to prescriptions. Id. at 54:1–55:11. Yagar described the pace of work as
12 “trying to squeeze 7 gallons of water into a 5-gallon bucket.” Id. at 20:12–22:8.

13 Walgreens executives knew that the pressure cooker work environment created
14 significant stress for pharmacists. In a February 2013 email, Mike Umbleby, Walgreens
15 Director of Health & Wellness Initiatives, emailed a Divisional Vice President and Group
16 Vice President of Pharmacy Operations after visiting Walgreens pharmacies. See P-
17 27333. Umbleby wrote that “[f]atigue and sustainability of our pharmacists is a real
18 concern. We’re asking them to do a lot but how long can they continue?” Id. at 00002. A
19 Weekly Performance dashboard from May 2013 included comments from pharmacy
20 managers that the “[f]ocus is on profit and not on patient care. Example of lack of middle
21 shifts saves labor but reduces patient care.” P-17218 at 00005. The dashboard reported
22 that pharmacy managers are “[s]truggling to keep our heads above water let alone
23 manage.” Id. Discussing the dashboard, Mark Wagner, Walgreens’ President of
24 Operations and Community Management, wrote that “I am concerned with the pharmacy
25 manager comments regarding lack of hours. I heard this loud and clear in San Francisco
26 this past week.” Id. at 00001.

27 Walgreens corporate received internal complaints from pharmacy employees about
28

1 these same issues.¹⁵ See P-27296 at 00002 (“Pharmacy Manager . . . has been bypassing
2 safety checks with the customer’s prescriptions . . . to meet the promise time.”); P-27300 at
3 00002 (“Dispensing medications ASAP was the companies [sic] priority and I was to
4 dispense the medications immediately and contact the prescriber for verification and
5 complete [Good Faith Dispensing] form later at a more convenient time. [Pharmacy
6 manager] said that our GFD files would never be audited by the company, so it was OK to
7 do so in apparent violation of policy.”); P-27328 at 00003 (“Vice President . . . informed
8 District Manager . . . that all Pharmacists would be required to work twelve hour days
9 without lunches or breaks . . . Walgreens could have more prescription errors . . . because
10 the Pharmacists will be overworked.”); P-27295 at 00002 (“Promise Time has a target
11 percentage goal that is not realistic giving [sic] the staffing level at most Walgreens . . .
12 The company seems to be more concerned with speed and making more profits than the
13 safety of the patients that we serve.”).

14 The work environment stressors did not improve over time. A December 2019
15 internal report titled “Rx Fulfillment” included a section titled “Errors resulting from
16 stress.” P- 20793 at 00034. The section described how pharmacists “expressed a high
17 level of stress in trying to meet promise time and the belief that, given current levels of
18 staffing, promise time was unreasonable while following proper procedure.” Id. The
19 “Errors resulting from stress” section noted “multiple reports of improper behavior which
20 was largely attributed to the desire to keep below promise time,” including “that pill
21 bottles had been found to contain more than one medication.” Id. Consistent with the
22 testimony of Walgreens pharmacists, the section described pharmacists’ concerns about
23 “taking their lunch break[,] as they feel they are judged for not making promise time
24 following the lunch break and cut their break short.” Id.

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26
27 ¹⁵ While the internal complaints include complaints from pharmacies outside of California, they
28 are persuasive evidence of how Walgreens pharmacies operate in practice because the staffing,
policies, and procedures across Walgreens pharmacies are the same or highly similar. See
generally Polster Decl. ¶¶ 12–17, 25–36 (describing policies and practices across Walgreens
pharmacies); Mathews Porter Tr. at 13:13–14:10.

b. Inadequate Staffing

1 Inadequate staffing compounded the time pressure and further limited the ability of
2 pharmacists to perform adequate due diligence before dispensing opioids.

3 Lo testified that inadequate staffing at Walgreens pharmacies “impacted patient care
4 and pharmacists’ ability to perform prescription due diligence[.]” Lo Decl. ¶ 4; Lo, May
5 12, 2022, Trial Tr. at 917:13–22 (“And so many times there were prescriptions that were
6 let out that I just hoped they were not wrong.”). Lo was often the only pharmacist on duty
7 and was responsible for filling large volumes of prescriptions by himself. See id. ¶ 5. He
8 worked through breaks to keep up with the prescription volume and spent much of his time
9 on tasks other than due diligence. Id. ¶ 6. Lo “called Walgreens’ employee hotline several
10 times to complain about dangerously low staffing levels.” Id. ¶ 10. He warned that “we
11 were at risk of ‘killing’ a patient.” Id. ¶ 10. But rather than improve, Lo testified that the
12 staffing issues “got worse, not better.” Id. ¶ 4. Lo testified that he asked his district
13 manager for additional staffing, and she told him that if he filled additional prescriptions,
14 his store would be eligible to receive additional staffing. See Lo, May 12, 2022, Trial Tr.
15 at 919:25–920:12 (“[S]he came back with a response saying, ‘All you have to do is, you
16 know, average another 25 or 50 prescriptions a day. You’ll reach a new tier and you’ll get
17 more hours.’”).

18 Like Lo, Gayle testified that the lack of adequate staffing created a “very stressful”
19 work environment that caused her to experience “situations where I was afraid I made a lot
20 of mistakes that could result in, you know, severe patient harm, potentially, or even death,
21 depending on the medication and the type of error.” Gayle Tr. at 17:9–16; see also id. at
22 19:6–7. The risks created by the working environment made her so concerned that she
23 began telling “friends and family” who filled prescriptions at Walgreens “please, please
24 double-check your medicines,” because she was so worried that given “how severely
25 understaffed the pharmacies are,” pharmacists would make mistakes in filling their
26 prescriptions. Id. at 22:07–22:19; see also id. at 22:17–19 (“And even strangers on the
27 street I would recommend it to them.”).

1 Golnaz Kamali worked as a pharmacist in Walgreens stores throughout Southern
2 California from 2011 to 2015. She testified that inadequate staffing was a “chronic
3 problem” at the stores where she worked. Kamali Tr. at 61:23–63:3. The volumes of
4 prescriptions at the pharmacies where Kamali worked were so high that it reached “the
5 point that [she] could not even take a bathroom break.” Id. at 62:1–15. Though she and
6 her fellow pharmacists repeatedly told supervisors and district managers that the
7 pharmacies needed more staff, Walgreens did not increase staffing levels. Id. at 63:7–
8 64:3. Walgreens’ managers told Kamali that Walgreens corporate set the staffing levels at
9 the pharmacies and that “[w]e could not go beyond those hours.” Id. at 63:20–63:25. The
10 chronic lack of staffing impacted Kamali’s ability to fulfill her responsibilities as a
11 pharmacist. Id. at 62:16–20. She testified that “we had to cut corners because there was
12 no time.” Id.

13 Mathews Porter testified that inadequate staffing exacerbated the time pressures,
14 and hindered her ability to perform prescription due diligence. Mathews Porter Tr. at
15 66:16–69:5. Time pressures and understaffing caused her to cut corners when filling
16 prescriptions, including not calling prescribers to verify prescriptions and not reviewing
17 the CURES database. Id. at 59:16–21; 71:6–11. Among other things, reviewing the
18 CURES database enables pharmacists to see whether a patient is receiving multiple
19 prescriptions for the same drug from different prescribers. See Besinque Decl. ¶¶ 19–21.
20 Mathews Porter testified that there were “definitely” times when prescriptions had been
21 dispensed even though the red flags associated with the prescription had not been resolved.
22 Id. at 63:18–25. She testified that, “I’m sure that I filled prescriptions with red flags at
23 some point, but you do the best you can do.” Id. at 65:16–66:4.

24 Yagar testified that the working environment has become increasingly stressful over
25 the past ten years because stores were increasingly understaffed. Yagar Tr. at 22:9–14;
26 50:5–51:1. In an attempt to address the understaffing, some Walgreens stores assigned
27 employees from other parts of the store (e.g. “somebody from photo”) to help take in
28 prescriptions in the pharmacies. Id. at 51:2–11. These employees “are given some

1 training,” but “they’re not officially licensed as technicians,” let alone as pharmacists. Id.
 2 see also P-27304 at 00002 (“[T]he pharmacy has been short staffed . . . They can’t service
 3 customer[s] properly and are at a higher risk to make mistakes because they are constantly
 4 rushing to try to get caught up.”); P-27327 at 00003 (“The lack of adequate staffing pos[es]
 5 risks to patient safety and standards of customer service.”).

6 **c. Lack of Training**

7 The 2012 memorandum of agreement that Walgreens entered with the DEA to
 8 resolve charges that its pharmacies violated the CSA by dispensing illegitimate controlled
 9 substance prescriptions required Walgreens to implement increased due diligence training
 10 across its pharmacies. See P-00015 at 00006. The evidence established that before 2012,
 11 Walgreens did not have controlled substance training for its pharmacists. After 2012, the
 12 training that Walgreens provided to its pharmacists was limited, at best. The lack of
 13 training affected pharmacists’ ability to perform due diligence.

14 Lo testified that he did not receive adequate training on due diligence policies or
 15 practices. He could not recall receiving any training on identifying red flags before “2012
 16 or 2013.” Id. ¶ 11; see also Lo, May 12, 2022 Trial Tr. at 914:14–19. Consistent with
 17 Lo’s testimony, Cheryl Creek, Walgreens’ Manager of Pharmacy Training, testified that
 18 the company did not do regular training before 2012. See Creek Tr. at 14:9–14; 28:19–
 19 29:1; 67:11–20 (Q. “In this time period, 2011, is there any training for pharmacists or other
 20 pharmacy employees regarding the dispensing of controlled substances?” A. “I do not
 21 believe that we had any training that was assigned to pharmacist regarding this
 22 specifically.”).

23 The 2012 DEA settlement required Walgreens to implement periodic controlled
 24 substance training for its pharmacists. See Creek Tr. at 75:11–21. Jeremy Gerspacher
 25 started working at Walgreens in 2014. He testified that Walgreens’ due diligence training
 26 “was basically a one-page brochure that you kind of read through and then you check a
 27 box in the training module[.]” Gerspacher Tr. 30:16–32:10. Gerspacher worked as a
 28 floater pharmacist at pharmacies throughout San Francisco. See id. at 8:25–9:2. Though

1 he began working at Walgreens “right out of pharmacy school,” Gerspacher was the only
2 pharmacist working on his shifts at least 75% of the time. Id. at 27:3–9. He recalled a
3 specific time when the lack of training failed him: a customer came in late at night to fill
4 an opioid prescription that presented red flags, and after Gerspacher filled the prescription,
5 he realized, “I shouldn’t have done that.” Id. at 33:16–34:8.

6 Contrary to the testimony of Walgreens pharmacists, Polster testified that the
7 company made training readily available. Polster Decl. ¶ 25. The Court assigns this
8 testimony little weight. In 2010—following Walgreens’ 2009 settlement with the DEA
9 over its San Diego, California pharmacy’s alleged failure to prevent diversion of opioids—
10 Polster wrote that Walgreens needed to develop “periodic training of all Walgreens retail
11 employees for dispensing controlled substances.” P-19566. She stated: “No such training
12 exists today.” Id.; see also Creek Tr. at 65:21–66:15. Creek also testified that Walgreens
13 did not have regular or “formal” training on controlled substance dispensing before 2012.
14 Creek Tr. at 65:21–67:20.

15 In 2012, Walgreens began developing controlled substance training materials, but
16 even then, the training resources consisted largely of materials or guidance that
17 pharmacists had to affirmatively seek out. See Polster, June 2, 2022 Trial Tr. at 2431:23–
18 2434:16. With respect to the training materials available to pharmacists, Polster testified,
19 “We have documents on our intranet. Sometimes there’s various continuing educations
20 that, you know, we’ll post on the intranet. My team is a source of help and coaching and
21 answering questions. That’s a form of training.” Id. at 2298:15–24.

22 In September 2012, Walgreens launched a training module on controlled substance
23 dispensing that pharmacists were required to complete within 60 days of beginning work at
24 Walgreens. See Creek Tr. at 425:5–14; P-20633. The materials cover a broad range of
25 subjects, including administering flu shots, responding to robberies, and safely storing
26 vaccines. See id. at 00006. The time assigned for the training on controlled substance
27 dispensing is 10 minutes. Id. In comparison, the time assigned for training on Walgreens’
28 “Prescription Savings Club” is 20 minutes, while the time assigned for “Gift Card Training

1 and Policy” is 40 minutes. See id.; Creek Tr. at 425:22–426:7.

2 **d. Lack of Resources**

3 Walgreens pharmacists also testified that they lacked the tools and resources to fully
4 investigate suspicious prescriptions and to alert their colleagues to suspicious prescribing
5 patterns.

6 There was no effective way to share concerns among pharmacies about suspicious
7 patients. As a result, patients could move from one pharmacy to another and seek to fill
8 the same prescriptions. Lo recalled an instance where he saw a patient “hopping back and
9 forth” between Walgreens stores, making payments for prescription narcotics with cash
10 and filling “overlapping narcotic prescriptions of the same strength and quality.” Lo Decl.
11 ¶ 15. He raised concerns about the patient with his Pharmacy Supervisor, but no action
12 was taken. Id. Walgreens continued to fill the patient’s prescriptions. Id.

13 Consistent with the evidence showing that the Pharmaceutical Integrity Team
14 provided pharmacists with inadequate resources to identify suspicious prescribing,
15 pharmacists testified that the tools for identifying suspicious prescribers were also “very
16 limited.” Lo Decl. ¶ 16. For example, the pharmacies’ computer system “did not list the
17 prescriber’s most recent prescriptions, what percentage were for narcotics, or how many
18 had been filled.” Id. For most of Lo’s time at Walgreens, the company blocked
19 pharmacists’ access to external websites, preventing them from doing basic internet
20 research on prescribers whose prescriptions gave them pause. Id. Lo raised concerns
21 about certain doctors he believed were overprescribing to his Pharmacy Supervisor, but
22 Walgreens did not meaningfully address his concerns. Lo Decl. ¶¶ 17–18; Lo, May 12,
23 2022, Trial Tr. at 917:23–918:10. Lo also testified that there was no process for
24 pharmacists at one store to share their concerns with other pharmacists in the city. Lo
25 Decl. ¶ 20.

26 Gayle similarly testified that the lack of tools made due diligence more difficult.
27 She testified that Walgreens could have used its own data to identify doctors who might
28 have been overprescribing opioids. Gayle Tr. at 67:17–68:6. She described times when

1 she saw “patterns of unusual prescribing” from particular doctors but she would still fill
2 an opioid prescription, even though she “felt like [she] didn’t have all the information”
3 about the prescriber. Id. at 68:08–69:12. She would “go home and look up the provider
4 and then find a lot of complaints online or things with the [American Medical Association]
5 about current disciplinary actions with their license that was in progress.” Id. Gayle
6 believed that Walgreens could have made this information available to her and other
7 pharmacists. See id.

8 Gayle testified that the pharmacy where she worked after leaving Walgreens
9 regularly performed analyses of prescribing trends to screen for suspicious prescribers.¹⁶
10 Gayle Tr. at 87:4–10. Like Gayle, Mathews Porter testified that the pharmacy where she
11 worked after leaving Walgreens provides its pharmacists with analyses that identify
12 suspicious prescribing trends. Mathews Porter Tr. at 111:7–111:25. Walgreens did not
13 provide its pharmacists with similar tools. Instead, Gayle testified that, on her own
14 initiative, she kept a sticky note in the pharmacy with a list of prescribers whose
15 prescribing patterns raised suspicion. Gayle Tr. at 69:15–70:6. Gayle testified about why
16 it was important to alert colleagues to suspicious prescriptions:

17 “[G]enerally what would happen is, if I refused it at my store, patients would
18 likely attempt to walk down the street along Mission Street and try it at each
19 subsequent store along Mission Street and then I assume that if everyone denied it
20 along Mission Street they would probably continue until they found a pharmacy
that might fill it for them.”

21 Gayle Tr. at 70:6–13.

22 Yagar testified that the lack of tools makes due diligence harder. Like Gayle, Yagar
23 keeps a list of suspicious prescribers “on a piece of paper,” which he references when
24 reviewing prescriptions. Yagar Tr. at 102:18–103:1. Yagar testified that it would be
25 helpful if Walgreens had a standardized way of providing information on suspicious
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27 ¹⁶ In response to a question from Walgreens’ counsel about why Walgreens did not provide
28 prescriber data to pharmacists, Polster testified, “That’s just not how pharmacy is practiced.”
Polster II Tr. at 428:3–7. But the evidence at trial showed that other chain pharmacies provided
more data to pharmacists and blocked prescriptions from suspicious prescribers.

1 prescribers, but “I have to take it upon myself, really.” Id.

2 Like Lo, Yagar testified that he has refused to fill opioid prescriptions because of
3 concerns about their legitimacy—only to see that pharmacists at nearby Walgreens filled
4 the prescriptions. Yagar Tr. at 69:17–21. For example, Yagar testified that he refused to
5 fill an opioid prescription in December 2021 based on the doctor’s “extremely bad pattern
6 of writing” prescriptions. Id. at 70:1–17. Shortly after he refused to fill the prescription
7 because he believed that it was “not a legitimate prescription,” Yagar discovered that the
8 prescription “got filled at another Walgreens.” Id. at 70:1–73:23. He testified, “I think
9 this happens quite frequently.” Id. at 75:17–20.

10 As another example, Yagar recalled that Walgreens management sent an email
11 telling pharmacies that they should not categorically block Lisa Tseng’s prescriptions,
12 despite her established patterns of suspicious prescribing. See Yagar Tr. at 94:20–95:7.
13 Yagar’s pharmacy had begun to refuse to fill Tseng’s prescription because of concerns
14 about their legitimacy, but other Walgreens pharmacies had continued to fill them. Id. at
15 101:10–20. Yagar testified that after Walgreens management sent the email directing
16 pharmacies to continue to receive Tseng’s prescriptions, Tseng was arrested, charged, and
17 sentenced to prison for writing grossly excessive opioid prescriptions that caused multiple
18 fatal overdoses. See id. at 95:1–101:20.

19 **e. Misaligned Incentives**

20 Filling prescriptions generates revenue for Walgreens, and multiple pharmacists
21 testified that the company prioritized increasing the volume of prescriptions filled over
22 performing due diligence that might result in prescriptions being denied.

23 Gayle testified that she felt pressured to fill prescriptions because “filling
24 prescriptions is what drove the profits.” Gayle Tr. at 32:10–20. She received feedback
25 during her evaluations that she should reduce the time spent on other tasks “to focus more
26 on filling prescriptions.” Id. The pressure to fill prescriptions impacted her ability to
27 perform due diligence before dispensing. See id. at 34:17–21. Spending too much time
28 performing due diligence negatively impacted her relationship with her managers and

1 created the prospect of “the horrible daily work life if your manager didn’t like you.” Id.
2 at 34:23–35:15. As a result of the pressure to fill, Gayle would sometimes “cut corners”
3 on due diligence, including the “due diligence into red flag opioid prescriptions.” Id. at
4 37:12–20. She testified that it was “well known” among “our pharmacy managers that
5 corners were being cut because everyone was cutting them to survive.” Id. at 37:24–38:23.

6 Gayle testified that in 2013 or 2014, Walgreens’ policy changed with respect to the
7 mandatory qualifications for district managers. Gayle Tr. at 130:8–130:24. When she
8 started at Walgreens, the company required district managers to be licensed pharmacists.
9 Id. Walgreens subsequently dropped that requirement. Id. Dropping the requirement
10 created a “potential conflict” because the managers overseeing the pharmacists did not
11 always fully appreciate or understand their role and duties. Id.

12 Kamali also had concerns about the incentive structure at Walgreens pharmacies.
13 She testified that the managers at Walgreens stores are primarily driven by quotas,
14 including for prescription fill volume. Kamali Tr. at 71:1–21. In her view, the quotas
15 presented a conflict because they “would force the pharmacist to not be concerned with the
16 patient’s health; rather, to be concerned with sales amounts.” Id. at 72:5–72:8; see also id.
17 at 39:17–23. Pharmacists exercising their professional judgment and declining to fill a
18 prescription that they believed was illegitimate under the Good Faith Policy were at risk of
19 being reprimanded for poor customer service by refusing to fill prescriptions. Id. at 23:10–
20 19. The tension between due diligence and customer service created pressure to fill
21 prescriptions despite the presence of unresolved red flags. Id. at 24:3–27:7.

22 For Kamali, this tension became outright conflict. After refusing to fill opioid
23 prescriptions that had red flags that she could not resolve, Kamali received critical
24 feedback from her supervisors for poor customer service. Kamali Tr. at 35:9–37:11; 44:4–
25 9. She raised concerns with pharmacy supervisors and district managers that she was
26 being unfairly disciplined for her good faith due diligence, but Walgreens management did
27 not address her concerns. Id. at 30:16–31:20. She felt that Walgreens’ policies forced her
28

1 to make a choice between “a patient’s health and being written up and being fired.”¹⁷ Id.
2 at 60:22–61:3.

3 Similar conflicts caused Mathews Porter to leave Walgreens. She testified that
4 conducting due diligence often resulted in negative customer service reviews because
5 customers would complain about having to wait or about not having their prescription
6 filled. Mathews Porter Tr. at 28:18–29:2 (“But, yeah, every time we refused a
7 prescription, it – it resulted in a complaint”). In her final year at the store, Mathews Porter
8 was deemed ineligible for a pay raise because of her low customer review scores. Id. at
9 120:7–122:21. She sent an email to her manager explaining that there was significant
10 “doctor shopping and overprescribing in our town” and that she felt she was being unfairly
11 penalized for performing due diligence on controlled substance prescriptions. Id. In her
12 mind, Walgreens appeared to be prioritizing profit over due diligence. Id. at 123:15–22.
13 She testified that it was not surprising that there were complaints when she refused to fill
14 suspicious prescriptions because “[t]hat’s what happens when you tell drugs addicts no.”
15 Id. at 126:12–19. Matthews Porter ultimately resigned from Walgreens because she felt
16 that her concerns about the conflict between due diligence and customer service were not
17 being meaningfully addressed. See id. at 126:12–127:3.

18 Yagar also filed an internal complaint expressing his concern with how the due
19 diligence polices were being applied. See Yagar Tr. at 127:18–131:4. The complaint
20 stemmed from an incident in which Yagar refused to fill a customer’s prescription because
21 it appeared illegitimate. Id. at 131:5–132:13. After the customer complained, two non-
22 pharmacist store managers began to instruct Yagar on how to assess the legitimacy of a
23 prescription. Id. at 138:13–20. Yagar considered it to be a conflict of interest that non-
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¹⁷ After she made several complaints about the conflict between customer service and due diligence, Walgreens fired Kamali on September 24, 2015—two weeks after she filed an internal complaint raising concern that Walgreens pharmacies were committing legal and ethical violations by filling illegitimate prescriptions. Kamali Tr. at 56:6–60:8; 168:15–23. In response, Kamali sued Walgreens for wrongful termination. Id. at 16:10–24:16. She alleged that Walgreens unlawfully terminated her for flagging concerns about violations of state and federal law. Id. Walgreens settled Kamali’s claims, paying her \$437,500. Id. at 50:21–51:3.

1 pharmacist managers—whose performance is assessed in part based on the volume of
2 drugs dispensed at the stores they oversee—were instructing pharmacists on how to
3 comply with their obligations under the CSA. Id. at 138:17–22; 155:17–160:7. In
4 response to Yagar’s complaint, Walgreens’ compliance personnel informed him that they
5 had investigated the matter and found “no evidence of a systemic issue regarding GFD
6 policy compliance.” Id. at 176:6–177:2. Yagar did not believe that Walgreens performed
7 a meaningful investigation. Id. at 184:11–18.

8 Other pharmacists across Walgreens stores have made similar complaints about the
9 conflict between generating revenue by filling volumes of prescriptions and performing
10 due diligence on those prescriptions. P-27297 at 00002 (“The caller said [the doctor] was
11 running a ‘pill mill’ . . . Management was trying to fill every prescription possible after an
12 account was lost. The caller did not want to be pressured to fill prescription from [the
13 doctor] knowing the circumstances.”); P-27298 at 00003 (“Caller . . . reported that . . .
14 Store Manager . . . violated Walgreen’s National Target Drug Good Faith Dispensing
15 Policy, when she overrode and removed his decision not to dispense a prescription to
16 customer . . . [The manager] told him that she could not afford to lose a customer who
17 spends \$6,000 a month in her store.”); P-27305 at 00002 (“[The caller] feels pressured by
18 [the managers] because they want her to fill narcotic prescriptions without verification
19 first.”).

20 In 2012, the DEA expressed concerns to Walgreens executives “that pressure from
21 owners/operators to fill scripts is driving the problem” of prescription drug abuse. See P-
22 19827 at 00001. A year later, Tasha Polster wrote to Walgreens’ Vice President of
23 Pharmacy Services that the message being delivered to pharmacies was that Good Faith
24 dispensing “concerns [don’t] relieve you from trying to attain the numbers that have been
25 set for you.” See P-00060 at 00002. Pharmacists understood this message all too clearly.

26 6. Walgreens’ Systemic Failure to Perform Due Diligence Caused 27 Harm in San Francisco

28 Pharmacies are the “last line of defense” against the diversion of controlled

1 substances. Catizone Decl. ¶ 10. Pharmacists experiencing relentless pressure and lacking
2 adequate support are at risk of missing red flags and failing to completely investigate the
3 red flags that they do identify. See id. ¶¶ 63–66. And pharmacies that maintain such
4 working environments are at a heightened risk of filling illegitimate prescriptions because
5 the pharmacists lack the ability to fully investigate them before dispensing. See id.

6 Walgreens pharmacists testified that as a result of the obstacles that prevented them
7 from performing due diligence, they dispensed opioid prescriptions that should not have
8 been filled. In response to the question, “[c]an you tell us whether or not you believe that
9 you filled some prescriptions that you probably should not have,” Lo testified, “I know that
10 I did.” Lo, May 12, 2022, Trial Tr. at 919:22–24. Gerspacher testified that he filled a
11 prescription and only afterwards realized, “I shouldn’t have done that . . . the red flags
12 were there, it just wasn’t engrained in me at the time.” Gerspacher Tr. at 33:16–34:8; see
13 also id. at 82:1–82:8 (testifying that “soon after filling [the prescription at a San Francisco
14 pharmacy], it was being sold in the parking lot”). In response to the question, “[d]oes that
15 mean, Dr. Kamali, that some prescriptions were being filled at Walgreens that should not
16 have been,” Kamali answered, “Yes.” Kamali Tr. at 24:13–16. When asked “did you
17 identify instances in which a prescription for a controlled substance, an opioid, had been
18 filled, but it did not appear that red flags had been resolved,” Mathews Porter testified,
19 “Definitely.”¹⁸ Mathews Porter Tr. at 63:18–25.

20 Dispensing opioid prescriptions without resolving red flags was not limited to the
21 pharmacists who testified. The evidence at trial demonstrated that from 2006 to 2020,
22 Walgreens pharmacies in San Francisco received over one million opioid prescriptions that
23 presented red flags and dispensed many of these prescriptions without first resolving the
24 red flags. The evidence further supports the conclusion that a significant number of the

25 _____
26 ¹⁸ Throughout trial, Walgreens pointed to evidence that Walgreens pharmacists testified that they
27 followed the Good Faith Policy. But the testimony was qualified. Consistent with the extensive
28 evidence showing the hurdles that pharmacists faced in performing due diligence, pharmacists
testified that they followed Walgreens’ Good Faith Policy “to the best of [their] ability.” See
Gayle Tr. at 164:18–165:3; Yagar Tr. at 217:13–21; Kamali Tr. at 82:3–17; Mathews Porter Tr. at
65:16–66:4.

1 opioid prescriptions dispensed with unresolved red flags were illegitimate.

2 **a. Red Flag Analysis**

3 Red flags are objective warning signs that indicate that a prescription may not be
 4 legitimate. Catizone Decl. ¶ 16. Plaintiff’s expert Carmen Catizone identified fourteen red
 5 flags that are commonly used to identify controlled substance prescriptions that may be at
 6 risk for diversion.¹⁹ See Id. ¶ 18. Catizone testified that he based his red flags on several
 7 sources, including Walgreens’ own policies, DEA and state board of pharmacy guidance,
 8 and DEA administrative actions. Catizone, May 12, 2022, Trial Tr. at 799:10–24;
 9 Catizone Decl. ¶¶ 4–22. The red flags fall into the following categories.

Category	Flag No. ²⁰
Long Distance Travel	(1) An opioid was dispensed to a patient who traveled more than 25 miles to visit the pharmacy (2) An opioid was dispensed to a patient who traveled more than 25 miles to visit their prescriber
Doctor-Shopping	(3) Patient was dispensed opioid prescriptions with overlapping days of supply that were written by two or more prescribers
Pharmacy-Shopping	(4) Patient was dispensed opioid prescriptions with overlapping days of supply at two or more pharmacies
Drug Cocktail	Patient was dispensed: (5) An opioid, a benzodiazepine, and a muscle relaxer for overlapping days of supply

19 Catizone is well-qualified to offer opinions on pharmacists’ corresponding responsibilities as well as on their identification and resolution of red flags. He is a licensed pharmacist with experience working in chain and retail pharmacy settings, he worked for the National Association of Board of Pharmacies for 35 years developing pharmacy regulation, and he has lectured, presented, and testified regarding pharmacy regulations, including those related to pharmacists’ corresponding responsibilities. See generally Catizone, May 12, 2022, Trial Tr. at 790:22–796:4.
 20 Catizone originally identified 16 red flags, but subsequently removed two. See Catizone Decl. ¶ 18, fn. 4. For purposes of consistency, however, the original numbering schemes were preserved.
Id.

1		(6) An opioid, a benzodiazepine, and a muscle relaxer on the same day, and all the prescriptions were written by the same prescriber
2		(7) An opioid and a benzodiazepine within 30 days of one another
3		(8) An opioid and a benzodiazepine on the same day, and both prescriptions were written by the same prescriber
4		(9) Patient was dispensed two short-acting opioid drugs on the same day
5		(11) Patient was dispensed an opioid prescription of over 200 MME per day on or before December 31, 2018 or over 90 MME per day after December 31, 2018
6	Excessive Dispensing	(15) A patient was dispensed more than 210 “days of supply” of all opioids combined in a 6-month period
7		(12) An opioid was dispensed to at least 4 different patients on the same day and the opioid prescriptions were for the same base drug, strength, and dosage form and were written by the same prescriber
8	Pattern Prescribing	(14) An opioid prescription was refilled more than 5 days before the patient’s previous prescription should have run out
9		(16) A patient was dispensed an opioid and paid cash
10	Early Refills	
11		
12	Cash Payment	
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22 The red flags that Catizone identified are indeed consistent with the red flags set
 23 forth in Walgreens’ Good Faith Policy. See, e.g., P-19745 at 00002; Catizone, May 12,
 24 2022, Trial Tr. at 799:10–24; Catizone Decl. ¶¶ 18–22. For example, the 2012 Good Faith
 25 Policy identifies the following as red flags: “unusual geographical distances between the
 26 patient, pharmacist and/or prescriber,” which is consistent with red flags (1) and (2);
 27 “controlled substance prescriptions from several different prescribers,” which is consistent
 28 with red flag (3); “unusual dosages, directions, or quantities beyond those normally

1 prescribed,” which is consistent with red flags (4), (9), (11), and (15); “frequent
2 combination prescriptions for known drug ‘cocktails,’” which is consistent with red flags
3 (5)–(8); “prescriber consistently write[s] prescriptions for controlled substances,” which is
4 consistent with red flag (12); “consistently request early refills,” which is consistent with
5 red flag (14); and “request to pay by cash or by using a cash discount card,” which is
6 consistent with (16). See WAG-MDL-00304 (cleaned up).

7 The “most challenging” red flag for a pharmacist is a prescription for a drug
8 “cocktail.” Polster Decl. ¶ 17. Drug cocktails consist of prescriptions for an opioid and a
9 benzodiazepine, and may also include a muscle relaxant. Id. These drug combinations
10 “can be abused and present special risks for patients.” Id.

11 Pharmacists disagree about whether it is ever appropriate to dispense prescriptions
12 for an opioid, benzodiazepine, and muscle relaxant, a combination known as the “holy
13 trinity.” Compare Catizone, May 12, 2022, Trial Tr. at 839:3–9 (testifying that a “trinity
14 cocktail” should never be dispensed) with Polster II Tr. at 176:19–180:15 (testifying that a
15 “trinity cocktail” may be appropriate in some circumstances). Eric Stahmann, a Manager
16 on the Pharmaceutical Integrity Team, testified that based on DEA guidance, pharmacists
17 should not fill prescriptions for the three-drug cocktail. Stahmann Tr. at 145:13–17. In an
18 email providing guidance to Walgreens pharmacists, Stahmann explained, “It isn’t
19 specifically stated in the GFD policy however it is publically [sic] documented that
20 the ‘trinity’ or ‘cocktail’ of an opioid, benzodiazepine and a muscle relaxer is a major red
21 flag in the eyes of the DEA and NABP.” P-19677 (original emphasis). Relatedly, Polster
22 testified that the “DEA has gone on the record saying that they do not feel that there is a
23 clinically significant reason as to why a cocktail combination would need to be
24 prescribed.” Polster II Tr. at 176:2–10.

25 Nonetheless, the DEA has not taken the formal step of prohibiting pharmacies from
26 dispensing trinity cocktails. See Besinque, June 6, 2022, Trial Tr. at 2590:19–2591:1.
27 And Walgreens has not imposed a blanket ban filling prescriptions for opioid cocktails,
28 including for the “holy trinity.” See Polster Decl. ¶ 17. The company’s policy is to have

1 pharmacists exercise their professional judgment and independently assess the legitimacy
2 of each prescription for an opioid cocktail. Id. Based on her experience as a dispensing
3 pharmacist, Polster testified without elaboration that “there are occasions where it may
4 appropriate” to dispense an opioid cocktail, including a “trinity” cocktail. Polster II Tr. at
5 176:19–180:15; see also Besinque, June 6, 2022, Trial Tr. at 2587:14–2591:5.

6 **i. Red Flags Trigger a Duty to Investigate**

7 The presence of one or more red flags does not establish that a prescription is
8 illegitimate. Catizone, May 12, 2022, Trial Tr. at 829:3–836:1. Rather, the presence of a
9 red flag triggers a pharmacist’s duty to perform a reasonable inquiry to determine whether
10 the prescription is legitimate before dispensing it. Catizone Decl. ¶¶ 19–27; Park Decl. ¶
11 7. Pharmacists should not dispense a prescription if they cannot resolve the red flags.
12 Catizone Decl. ¶ 15.

13 **ii. Red Flags Are Both Over and Underinclusive**

14 Red flags are not perfect proxies for identifying suspicious prescriptions. As
15 Polster testified, “[o]f necessity, any list of red flags in our Good Faith Dispensing Policies
16 (or elsewhere) will be both underinclusive and overinclusive.” Polster Decl. ¶ 15.

17 Some prescriptions may trigger red flags that are easily resolvable. In those
18 situations, the red flag is overinclusive, flagging prescriptions that are not in fact being
19 diverted. For example, the distance that a patient travels to a pharmacy triggers a red flag.
20 Catizone Decl. ¶¶ 18–22. However, a patient may commute over 25 miles to work and
21 may fill their prescription at a pharmacy near their office where they regularly interact with
22 the same pharmacist. See Polster ¶ 15. The initial prescription may trigger a red flag, but
23 if the patient explains the reason for the red flag and continues to fill prescriptions with the
24 same pharmacist, the red flag presented by later prescriptions would be easily resolved.
25 See id. The pharmacist knows why the patient is filling a prescription from an out-of-the
26 area prescriber.

27 On the other hand, red flags are also underinclusive because there “will always be
28 unique circumstances, which will not be captured on any list, that make a pharmacist

1 uncomfortable filling a prescription without additional information.” Polster ¶ 15. For
2 example, Walgreens’ Good Faith Policy directs pharmacists to consider whether a patient
3 exhibits “‘drug seeking’ type behaviors,” a circumstantial assessment that a pharmacist can
4 only make in the context of their interaction with a particular patient. See WAG-MDL-
5 00304. These types of subjective red flags are not included in Catizone’s list of fourteen
6 red flags.

7 Walgreens’ expert Kathleen Besinque opined that Catizone’s red flags cannot
8 reliably identify suspicious prescriptions. The Court assigns this testimony little weight.
9 One of Besinque’s main criticisms is that no list of red flags can completely reflect the
10 judgment that a prescriber must make in the circumstances when evaluating a prescription.
11 See Besinque Decl. ¶¶ 9–11. This criticism is unpersuasive. Although Catizone’s red
12 flags are not a foolproof means of identifying suspicious prescriptions, the red flags are an
13 overall reliable way to screen for suspicious prescriptions and they are consistent with
14 Walgreens’ policies. See Catizone Decl. ¶¶ 16–27; Catizone, May 12, 2022, Trial Tr. at
15 799:10–800:21.

16 During cross-examination, Besinque was pressed on the overlap between Catizone’s
17 red flags and Walgreens’ Good Faith Policy, and her responses were lacking. For
18 example, Catizone’s red flags one and two identify prescriptions as suspicious when a
19 customer travels more than 25 miles to a prescriber or a pharmacy. See Catizone Decl. ¶
20 18. Besinque criticized the 25-mile threshold as “arbitrary,” even in a dense city
21 environment like San Francisco. Besinque, June 7, 2022, Trial Tr. at 2637:7–2638:22.
22 She testified that she was not aware of authority that considered 25 miles to be indicative
23 of a potentially suspicious prescription. Id. at 2642:10–24. But then Besinque was
24 presented with evidence that both the DEA and Walgreens have considered distances of 25
25 miles and 30 miles, respectively, to be a red flag. See id. at 2644:2–2648:4; 2653:10–
26 2657:19. Despite the evidence, she continued to maintain that the 25 mile threshold was
27 “arbitrary.” See id. at 2658:6–11. Besinque’s unwillingness to confront evidence that
28 directly undermined her opinions casts serious doubts on her credibility.

1 Further, Besinque opined that many of the prescriptions that hit on one of
 2 Catizone’s red flags “did not present an actual red flag.” Besinque, June 7, 2022, Trial Tr.
 3 at 2658:21–2659:2; 2672:4–15. But she did not perform any analysis to show how many
 4 of the prescriptions did not, in her view, “present an actual red flag.” See id. In fact, over
 5 1,200,000 opioid prescriptions dispensed at San Francisco Walgreens between 2006 and
 6 2020 hit on one of Catizone’s red flags, and Besinque identified only two that she claimed
 7 did not present an actual red flag. See id. at 2672:16–22; see McCann Rebuttal Decl. (dkt.
 8 1521) ¶ 4. Besinque’s opinions generally suffered this shortcoming. See id. at 2672:23–
 9 2674:13. She broadly criticized Catizone’s analysis, but she did not support her criticisms
 10 with evidence. Her testimony thus carries little weight.

11 **b. Red Flags Applied to Walgreens’ Dispensing Data**

12 From 2006 to 2020, Walgreens pharmacies in San Francisco filled 2,478,103 opioid
 13 prescriptions, with the average prescription containing approximately 60 pills.²¹ See
 14 McCann Decl. ¶ 57, 85. Plaintiff’s expert Dr. Craig McCann applied Catizone’s red flags
 15 to Walgreens’ dispensing data to calculate the number of opioid prescriptions that hit on at
 16 least one red flag. Id. ¶ 85. McCann calculated that the total number of red flagged
 17 prescriptions dispensed at Walgreens pharmacies from 2006 to 2020 was 1,428,393. Id.
 18 The below table sets forth the total number of prescriptions and the number of red flag
 19 prescriptions dispensed each year.

20

21 Year	22 Total Number of Opioid Pills	23 Total Number of Opioid Prescriptions	24 Number of Red Flag Opioid Prescriptions	25 Percentage of Red Flag Opioid Prescriptions
26 2006	4,374,538	77,260	41,809	54%
27 2007	10,146,416	180,670	103,353	57%
28 2008	11,344,092	194,543	110,957	57%

21 The dispensing data that Walgreens produced was for eight opioids—fentanyl, hydrocodone, hydromorphone, methadone, morphine, oxycodone, oxymorphone, and tapentadol. McCann Decl. ¶ 20. Walgreens also produced dispensing data for benzodiazepines and muscle relaxers. Id.

2009	12,827,071	212,331	122,892	58%
2010	14,705,471	230,318	137,973	60%
2011	15,467,823	239,767	143,437	60%
2012	14,450,471	217,328	131,679	61%
2013	13,793,950	210,989	124,596	59%
2014	12,115,575	187,900	105,422	56%
2015	11,313,749	168,725	94,169	56%
2016	10,367,883	157,527	88,640	56%
2017	9,192,814	142,345	79,958	56%
2018	7,371,633	118,425	65,189	55%
2019	5,834,356	99,132	56,225	57%
2020	2,457,289	40,843	22,094	54%
Totals:	155,763,131	2,478,103	1,428,393	

McCann Decl. ¶ 57, 85.

At trial, Walgreens demonstrated that McCann's analysis overstated the number of opioid prescriptions that hit on red flags by 177,086 prescriptions. Brunner, June 6, 2022, Trial Tr. at 2483:15–2486:15. Walgreens' expert Robert Brunner showed that red flags 3, 4, 5, 7, 12, and 14 all involve multiple prescriptions, and that McCann incorrectly counted the first prescription in his totals, although that prescription by itself would not have triggered a red flag. See McCann Rebuttal Decl. ¶¶ 2–3. For example, red flag 4 identifies prescriptions where the patient was dispensed opioid prescriptions with overlapping days of supply at two or more pharmacies. See Catizone ¶ 18. Brunner demonstrated that McCann's red flag analysis counted both prescriptions under red flag 4. See Brunner Decl. ¶¶ 11–12; see also Brunner, June 6, 2022, Trial Tr. at 2486:7–15. But for red flag 4 (and related red flags), the first prescription should not be counted as suspicious. The second prescription is suspicious because of the first prescription, but, assuming the first prescription does not trigger another a red flag, there is nothing about that prescription that

1 is suspicious. The result is overcounting.

2 According to Brunner, this error led McCann to overcount 437,786 red flag
3 prescriptions. See Brunner, June 6, 2022, Trial Tr. at 2485:23–2486:2. But Brunner
4 overcounted the overcounting. He did not go on to analyze whether the first prescription
5 for red flags 3, 4, 5, 7, 12, and 14 hit on a separate red flag. See McCann Rebuttal Decl. ¶¶
6 1–5. As McCann demonstrated in his rebuttal testimony, 260,700 of the first prescriptions
7 that Brunner claimed were overcounted did in fact hit on separate red flags. Id. As a
8 result, the total number of red flag prescriptions that were overcounted was 177,086. Id.

9 In light of this adjustment, the total number of Walgreens opioid prescriptions that
10 hit on red flags between 2006 and 2020 was 1,251,307. See McCann Rebuttal Decl. ¶ 4.
11 The downward adjustment of 177,086 prescriptions affects the number of prescriptions
12 listed in the above table, but Plaintiff did not submit an updated table that corrects for the
13 overcounting. Some number of the red flag prescriptions in the fourth column should be
14 reduced, but it is unclear which ones. Nonetheless, the reduction would not remove more
15 than 177,086 red flag prescriptions from the table. Because the corrected analysis shows
16 that Walgreens still distributed over 1.2 million red flag prescriptions in a fifteen-year
17 period, the Court finds that McCann’s initial methodological error was immaterial.
18 McCann’s initial methodology flagged 61.5% of prescriptions for opioids and opioid
19 cocktails; the adjusted methodology flagged 55.4% of the prescriptions for opioids and
20 opioid cocktails. See McCann Rebuttal Decl. ¶¶ 4–5. Even with the adjustment, the data
21 shows that Walgreens pharmacies in San Francisco dispensed on average 83,420 red flag
22 prescriptions per year from 2006 to 2020. See id. ¶¶ 3–4.

23 In an attempt to show that Plaintiff’s red flag analysis was overinclusive, Walgreens
24 offered evidence that many of the prescriptions written by three doctors who work for the
25 city of San Francisco would trigger large volumes of red flags. Brunner Decl. ¶ 6. But
26 this evidence does not undermine Plaintiff’s red flags because of the high-risk patient
27 population with whom these doctors work. Dr. Claire Horton, for example, testified that
28 she works “in a really high-risk setting with really high-risk patients,” that she would

1 expect many of her prescriptions to trigger red flags, and that she would expect a
2 pharmacist to perform due diligence before filling her prescriptions. See Horton Tr. at
3 48:21–49:16; 149:19–150:21; 159:22–160:16; 170:19–171:11 (“I am just going to say that
4 . . . it would not surprise me to know that the majority of my prescriptions over my
5 prescribing life would trigger a safety review on behalf of a dispensing pharmacist.”).

6 In addition, over 1.2 million opioid prescriptions dispensed by Walgreens triggered
7 at least one red flag, and the city-employed prescribers that Walgreens cites to accounted
8 for a small fraction of these prescriptions. See WAG-MDL-03591 (1,582 of Dr. Zevin’s
9 prescriptions triggered red flags); WAG-MDL-03596 (2,042 of Dr. Horton’s prescriptions
10 triggered red flags); WAG-MDL-03606 (2,910 of Dr. Pace’s prescriptions triggered red
11 flags). Walgreens’ argument comes up short for this reason as well. Even if Walgreens
12 could establish that Catizone’s red flags were somewhat overinclusive—despite being
13 consistent with Walgreens’ policy and DEA guidance—that would not change the factual
14 findings discussed in detail below. See infra I.C.6.c. & I.C.7. As will be discussed, the
15 evidence established that hundreds of thousands of red flag prescriptions were written by
16 prescribers other than doctors working for the city of San Francisco, including several
17 whose medical licenses were later suspended or who would go to prison. These, in
18 particular, are the prescribers that the red flags are meant to identify, and the evidence
19 established that the vast majority of their prescriptions triggered red flags. See id.
20 Walgreens dispensed them anyway.

21 Finally, the fact that prescriptions written by well-regarded prescribers triggered red
22 flags does not demonstrate that Catizone’s red flags are unreliably broad. Red flags apply
23 to controlled substances that pose high risks of harm if used inappropriately. That many
24 opioid prescriptions trigger red flags reflects the importance of pharmacies’ regulatory
25 obligation to perform due diligence before dispensing them. As Dr. Horton testified, “I
26 have reconsidered my prescriptions based on discussions with pharmacists in the past.”
27 See Horton Tr. at 151:2–14. Pharmacies are the last line of defense against diversion, and
28 the fact that a well-respected doctor wrote a prescription does not relieve pharmacies of the

1 independent obligation to perform due diligence before dispensing it. See 21 C.F.R. §
2 1306.04(a).

3 **c. Red Flags Were Not Resolved before Opioid Prescriptions**
4 **Were Dispensed**

5 On average, Walgreens pharmacies in San Francisco dispensed a total of 83,420 red
6 flag prescriptions each year from 2006 to 2020. See McCann Rebuttal Decl. ¶¶ 3–4. Red
7 flag prescriptions are not necessarily illegitimate. Park Decl. ¶ 7. But a pharmacist must
8 resolve the suspicions presented by a red flag prescription before dispensing it, and
9 pursuant to Walgreens’ policy and California standard of practice, pharmacists must
10 document the steps that they took to resolve the red flags before the prescriptions is
11 dispensed. Catizone Decl. ¶¶ 23–27; Park Decl. ¶ 10.

12 **i. Documenting The Resolution of Red Flags**

13 Walgreens’ Good Faith Policy states that it is “[i]t is imperative that pharmacists
14 document all efforts used to validate good faith dispensing.” WAG-MDL-00304.00004
15 (emphasis added). Pharmacies are expected to comply with their own dispensing policies
16 under the standard of practice in California. Park Decl. ¶ 6. Pharmacies and pharmacists
17 fall below the standard of practice if they do not identify “the existence of red flags,”
18 perform “a reasonable inquiry,” and document “the resolution of every red flag.” Id. at ¶
19 10. As a general matter, documenting the resolution of a prior red flag does not relieve a
20 pharmacist of the obligation to resolve red flags present in subsequent prescriptions. Id. ¶
21 12; see also Besinque Decl. ¶ 16.

22 Documenting resolution of red flags is a critical part of the due diligence process.
23 Documentation provides pharmacists with information that can be helpful to assessing the
24 legitimacy of a prescription. See Catizone, May 12, 2022, Trial Tr. at 801:2–802:17. And
25 it provides proof that a pharmacist performed proper due diligence before dispensing a
26 prescription. See id. A guiding principle of pharmacy is that “if you didn’t document it, it
27 didn’t happen.” Gayle Tr. at 51:21–22; Mathews Porter Tr. at 72:14–16 (“if you didn’t
28 document it, it didn’t happen”); Park Decl. ¶ 10. If there is no record of documentation, it

1 is likely that due diligence did not occur. See Mathews Porter Tr. at 74:9–15.

2 Eric Stahmann, a Manager on the Pharmaceutical Integrity Team, testified that
3 documenting resolution of red flags is part of Walgreens’ “standard operating procedures.”
4 Stahmann Tr. at 97:8–15. Stahmann testified that Walgreens pharmacists “are supposed to
5 document any activity they did to either clear red flags or not able to clear a red flag [sic].”
6 Id. Consistent with his testimony, Stahmann told Walgreens Regional Healthcare Director
7 that “[r]egardless if the decision is to fill or refuse, make sure [the pharmacists] properly
8 document the steps taken to reach that decision either on the prescription hardcopy or IC+
9 image/profile.” P-29904 at 00001. While Walgreens’ pharmacy expert Kathleen Besinque
10 testified that no state or federal laws or regulations “list any specific actions that must be
11 taken by the pharmacist or specify documentation that needs to be completed prior to
12 dispensing,” she also testified that “documentation of red flag resolution is a good
13 practice” and that Walgreens Good Faith Policy included a documentation requirement
14 starting in 2006. Besinque Decl. ¶¶ 11, 16; see also Besinque, June 6, 2022, Trial Tr. at
15 2618:2–2619:24.

16 In support of its contention that pharmacy best practices do not necessarily require
17 documenting due diligence, Walgreens offered evidence that the ZSFG pharmacy does not
18 have a written policy requiring pharmacists to document resolution of red flags. See Patel,
19 May 19, 2022, Trial Tr. at 1310:5–8. The evidence is not persuasive. Swati Patel, ZSFG’s
20 Director of Pharmacy, testified that ZSFG pharmacists must resolve any red flag presented
21 by a prescription before dispensing it. Id. at 1325:5–1326:2. She testified that pharmacists
22 meet daily to discuss pharmacy operations, including any questions that have come up
23 regarding the legitimacy of prescriptions. See id. at 1335:11–1336:4. And she testified
24 that while there is no written provision, ZSFG pharmacists are expected to document
25 resolution of red flags as a matter of policy. Id. at 1346:1–1348:3.

26 In addition, the ZSFG pharmacy operates in a different environment and serves a
27 different patient population than Walgreens pharmacies. See, e.g., Patel, May 19, 2022,
28 Trial Tr. at 1292:20–1293:3; 1326:3–23; 1332:23–24. For example, the ZSFG pharmacy

1 only dispenses medications to patients at the ZSFG hospital or patients at health clinics
2 affiliated with the ZSFG hospital. Id. at 1329:4–1331:23; 1340:16–1341:12. Most opioid
3 prescriptions that the ZSFG pharmacy dispenses are short duration prescriptions to patients
4 being released from the hospital. Patel Decl. ¶ 5. Between 2017 and 2020, for example,
5 “approximately 80% of opioid prescriptions the pharmacy dispensed were at discharge
6 from a hospital stay with an average days’ supply of between 4 and 5 days.” Id.

7 The evidence at trial overwhelmingly established that Walgreens pharmacists
8 understood that the company’s policies along with pharmacy best practices required
9 documentation of the resolution of red flags prior to dispensing a prescription for
10 controlled substances.

11 **ii. Walgreens San Francisco Pharmacies Dispensed Red
12 Flag Prescriptions without Performing Due Diligence**

13 Plaintiff’s pharmacy expert Elizabeth Park reviewed due diligence materials from
14 Walgreens pharmacies to evaluate the extent to which the pharmacies documented the
15 resolution of red flags. Specifically, Park reviewed the due diligence documentation for
16 2,265 prescriptions for opioids and opioid cocktails that 12 Walgreens pharmacies in San
17 Francisco dispensed from 2010 to 2019.²² See Park Decl. ¶ 16; Park, June 16, 2022, Trial
18 Tr. at 963:11–21; McCann Decl. ¶ 63. Each of the prescriptions included in the sample
19 review hit on one or more of Catizone’s red flags. Park Decl. ¶ 17. The data that Park
20 reviewed included all of the electronic data fields and scanned images associated with each
21 prescription that Walgreens pharmacists performed before dispensing the prescription. Id.
22 ¶ 18. Her opinion was limited to whether there was adequate documentation of due
23 diligence for the prescriptions—she did not opine on the medical legitimacy of any of the
24 prescriptions. Park, June 16, 2022, Trial Tr. at 1015:6–25.

25 Based on her review of the due diligence materials produced by Walgreens, Park

26 _____
27 ²² During discovery, a magistrate judge ordered Walgreens to produce 5,000 prescriptions along
28 with the due diligence materials that accompanied the prescriptions. Ultimately, it only produced
the due diligence materials for 2,265 prescriptions because it could not reasonably locate the due
diligence materials for all 5,000 prescriptions. See Park, June 16, 2022, Trial Tr. at 964:2–18.

1 found “evidence of an appropriate effort to resolve red flags in fewer than 5% of cases.”
 2 Park Decl. ¶ 24. Put another way, for over 95% of the 2,265 prescriptions she reviewed
 3 that hit on at least one red flag, the documentation was either non-existent or insufficient to
 4 establish that the red flag had been identified or resolved before the pharmacist dispensed
 5 the prescription. See id. ¶¶ 24–26 (“[T]he notes I reviewed from Walgreens’ computer
 6 system provide little to no information that any reasonable pharmacist or pharmacy would
 7 interpret as documentation that red flags were identified or resolved.”). Based on Park’s
 8 findings, McCann determined that the results of Park’s analysis for the 12 San Francisco
 9 pharmacies—namely, that adequate due diligence existed for less than 5% of red flag
 10 opioid prescriptions—could be extrapolated to all Walgreens pharmacies in San Francisco.
 11 See McCann ¶ 67.

12 In addition to finding that adequate documentation did not exist for many of the
 13 opioid prescriptions dispensed at the twelve Walgreens pharmacies, Park found that the
 14 vast majority of the comment fields in the IC+ system where pharmacists are expected to
 15 document their due diligence were blank. Park Decl. ¶ 26. Polster testified that Walgreens
 16 expects its pharmacists to document red flags in the “Annotation Text” field in the IC+
 17 system. See Polster, June 2, 2022, Trial Tr. at 2414:23–2415:4. However, the Annotation
 18 Text field was blank for 89% of prescriptions and the Patient Comments field was blank
 19 for 86% of the prescriptions that Park reviewed. See Park Decl. ¶ 26. For the small
 20 number of prescriptions that Park reviewed where these fields included comments, the
 21 comments were largely unrelated to due diligence. See id. Of the 319 prescriptions where
 22 the Patient Comments field included a notation, “266 (83%) included nothing more than an
 23 email address.” Id. Consistent with Park’s findings, Walgreens’ pharmacy expert
 24 Kathleen Besinque reviewed the Annotation Text field for fifty of the prescriptions that
 25 Park reviewed, and for forty-four of the fifty prescriptions, the Annotation Text field was
 26 blank.²³ Besinque, June 7, 2022, Trial Tr. at 2676:1–18.

27 _____
 28 ²³ In the six instances where the Annotation Text field did have a note, only 3 of the notes, at most,
 appeared related to due diligence. See Besinque, June 7, 2022, Trial Tr. at 2677:16–2680:19.

iii. Failure to Perform Due Diligence

1 The evidence presented at trial demonstrated why Walgreens pharmacies failed to
 2 perform due diligence before dispensing prescriptions. See supra I.C.5.a–e. Walgreens
 3 pharmacists operated under intense time pressure that forced them to skip breaks, work off
 4 the clock, and dispense prescriptions with limited or no review. Walgreens pharmacists
 5 repeatedly requested additional staffing to help mitigate these challenges, but Walgreens
 6 did not provide it. The evidence showed that Walgreens pharmacies were chronically
 7 understaffed. The inadequate resources made a hard job even harder. Walgreens required
 8 its pharmacists to complete paper due diligence checklists and store them in file cabinets.
 9 Its pharmacists had no effective way to share concerns about suspicious prescribers. Their
 10 comments regarding suspicious prescribing practices were deleted, and they had to resort
 11 to keeping “sticky notes” posted in the pharmacy to track prescribers they considered to be
 12 suspicious. In this environment, pharmacists “had to cut corners because there was no
 13 time.” Kamali Tr. at 62:16–20. As Gayle testified, “it was well known anyway among []
 14 our pharmacy managers that corners were being cut because everyone was cutting them to
 15 survive.” Gayle Tr. at 38:22–23.

16 In addition, the evidence established that Walgreens’ due diligence practices from
 17 2003 to 2012 meant only one thing: contact the prescriber. See P-19613 at 00012; P-
 18 15119 at 00011. Walgreens’ Good Faith Policy through this period stated that “[i]f the
 19 prescriber confirms the validity of the prescription, document this on the hard copy and
 20 process the prescription as normal.” P-15119 at 00011; P-19613 at 00012. Directing
 21 pharmacists to defer to prescribers abdicated the pharmacies’ corresponding responsibility
 22 to independently ensure that controlled substance prescriptions were legitimate. See
 23 Catizone Decl. ¶ 37.

24 Polster testified that it was never Walgreens’ policy that pharmacists should defer to
 25 the judgment of a prescriber. Polster, June 2, 2022, Trial Tr. at 2285:4–2286:13. This
 26 testimony receives no weight. The words of Walgreens’ policies squarely contradict
 27 Polster’s testimony, and Polster herself conceded that the policies do not direct
 28

1 pharmacists to conduct additional due diligence after verifying a prescription with a
 2 prescriber. Id. at 2425:14–2426:21. Polster’s own words further undermine her testimony.
 3 In 2012—after the DEA issued multiple show cause orders charging that Walgreens
 4 pharmacies violated the CSA by filling illegitimate prescriptions—Polster wrote, “The
 5 game has changed; we can no longer rely on the ‘I spoke to the prescriber and he said it
 6 was okay’ . . . We are going down a different path now and we have to make sure that we
 7 are prepared.”²⁴ P-20639 at 00009. Consistent with Polster’s statement that the “game has
 8 changed” and that the company was “going down a different path,” Walgreens amended its
 9 Good Faith Policy to state: “there are also circumstances in which calling the prescriber
 10 will not resolve the red flags because the red flags indicate that the prescriber is
 11 collaborating with the patient to divert drugs.” P-15085 at 00007. The amendment
 12 demonstrates that under prior policies, Walgreens considered simply verifying a
 13 prescription with a prescriber to be adequate due diligence. Instructing pharmacists in
 14 2012 that they should not rely solely on the words of a prescriber was a “different path” for
 15 Walgreens.

16 **iv. Walgreens Corporate was Aware of The Lack of Due**
 17 **Diligence**

18 One of the main functions of the Pharmaceutical Integrity Team was “to ensure that
 19 our pharmacists were being consistent when they were documenting their corresponding
 20 responsibility when filling prescriptions.” Polster II Tr. at 25:19–26:16. After the
 21 Pharmaceutical Integrity Team instituted the Target Drug checklists, Polster testified that
 22 “field leadership would follow up to ensure that the checklists were being used.” Id. at
 23 348:13–349:20.

24 Walgreens’ internal audits, however, found deficiencies in pharmacies’ compliance
 25 with the Target Drug checklist. See P-15095 at 00006. A December 2014 audit—

26 _____
 27 ²⁴ In her testimony at trial, Polster attempted to walk back these statements, explaining that they
 28 were “not all I said” and that they “were my personal speaker notes.” Polster, June 2, 2022, Trial
 Tr. at 2427:6–2429:18. The Court finds this testimony to be nothing more than a bald denial and
 assigns it no weight.

1 performed almost two years after Walgreens implemented the Target Drug checklist—
2 found that there was “no corporate reporting” process in place to monitor compliance with
3 the Target Drug checklist. P-25492; see also Polster II Tr. at 350:4–353:24. The audit
4 found that the only compliance process in place was a “Store Walk” program. P-25492 at
5 00015. As part of the “Store Walk” process, “questions are asked” about compliance with
6 the Target Drug checklist, but Walgreens management did not formally document any
7 responses to the compliance questions, nor did they otherwise follow a process for
8 documenting pharmacies’ compliance with Walgreens’ policies. P-25492 at 00015
9 (“[T]here is no monitoring performed outside of the Store Walk program to determine
10 whether Pharmacists across the chain are adhering to the requirements set forth by the
11 Target Drug Good Faith Dispensing policy.”). The “Store Walk” audits consisted of a
12 manual spot check of the hardcopy due diligence checklists that were stored in the file
13 cabinets at Walgreens pharmacies. See Polster II Tr. at 355:3–357:2.

14 In 2015, Walgreens audited 2,407 pharmacies to check compliance with the due
15 diligence policies. P-15085. Regarding the audit results, Polster wrote to Managers on the
16 Pharmaceutical Integrity Team, “put your seat belts on . . . I hope that the results are not as
17 bad as I am thinking they will be.” P-20803. The audit results were “unfavorable.” P-
18 15085 at 00006. The audit found that 1,432 stores out of 2,407 “correctly had a completed
19 TD GFD Checklist attached to the filled TD prescription hard copies” for a “59.5%
20 compliance rate.” Id. at 00007; see also id. at 00008 (“Number of stores that correctly had
21 completed TD GFD Checklist attached to the refused TD prescription hard copies or
22 copies [sic]” were “1,820 stores (75.7% compliance rate).”). Even though Walgreens
23 pharmacies directed its pharmacies to retain the prescriptions for the Target Drugs that
24 they refused to fill, the audit found that 1,160 out of 2,407 stores had failed to retain any
25 refused prescriptions. Id. at 00009.

26 Walgreens’ internal audit results were consistent with the results of analyses based
27 on due diligence materials produced during discovery. Walgreens produced the Target
28 Drug checklists for twelve of its San Francisco pharmacies. See P-29849. From 2013 to

1 2020, the twelve pharmacies dispensed 82,507 prescriptions for target drugs. Id. at 00001.
 2 There were Target Drug checklists for only 32,566 of those prescriptions. Id. In other
 3 words, for 60.53% of prescriptions over an eight-year period, there was no record that due
 4 diligence had been performed through the Target Drug checklist. See id.

5 Polster testified that Walgreens pharmacists are diligent about documenting steps
 6 they take to resolve concerns posed by a prescription. See Polster Decl. ¶ 23. She testified
 7 that if a prescription triggered a red flag and there is nothing documenting its resolution,
 8 then “the pharmacist simply did not believe the circumstances gave rise to any real concern
 9 that they had to take steps to resolve[.]” Id. ¶ 23. The Court assigns this testimony no
 10 weight. Polster has not worked as a pharmacist since 2003, she provided no explanation
 11 for the basis of this testimony, and she has no foundation to provide such sweeping
 12 testimony about all Walgreens pharmacies. See Polster, June 6, 2022 Trial Tr. at 2446:20–
 13 2454:16; see also Polster ¶ 19. The testimony is no more than say-so.

14 Further, the Court finds that Polster’s long tenure at Walgreens and her position as
 15 Head of Pharmaceutical Integrity colored her testimony. In the face of significant
 16 evidence showing that Walgreens pharmacists faced systemic pressures and challenges that
 17 prevented them from consistently performing due diligence, Polster’s unsupported claims
 18 that Walgreens pharmacists always fulfilled their corresponding responsibility as a matter
 19 of course are not credible. Along this line, throughout her testimony, Polster was shown
 20 documents identifying issues involving Walgreens pharmacies, and rather than confront
 21 the document, she repeatedly testified, “That’s what it says.” See, e.g., Polster II Tr. at
 22 361:9–12 (Q. “In the roughly [] 2400 stores that were audited, the results were
 23 unfavorable, correct?” A. “That’s what it says.”); id. at 353:17–24 (Q. “[T]here is no
 24 monitoring performed outside of the store walk program to determine whether pharmacists
 25 across the chain are adhering to the requirements set forth by the Target Drug Good Faith
 26 Dispensing Policy. Did I get that right?” A. “Yeah, that’s what it says there.”); id. at
 27 365:5–9 (Q. “40 percent of the stores did not correctly complete the TD GFD checklist,
 28 correct?” A. “That is what it says.”). Polster’s repeated refusal to engage with unfavorable

1 documents that undermine her testimony casts doubt on her credibility as a whole. To the
2 extent Polster tried to explain away the documents, her explanations were unconvincing.

3 Ronda Lowe worked as a Walgreens pharmacy supervisor and district manager.
4 Lowe Decl. ¶¶ 3, 7–8. In these roles, she oversaw several stores in San Francisco from
5 1993 to 2019. Id. ¶¶ 1–4, 7–8. One of her responsibilities as both a pharmacy supervisor
6 and district manager was to ensure that the stores under her supervision were complying
7 with Walgreens’ Good Faith Policy and Target Drug checklist. Lowe, June 13, 2022, Trial
8 Tr. at 3010:2–16. To check compliance, she would visit stores, speak with staff, and work
9 through a Store Walk Summary. Id. at 3017:6–3021:2. The Store Walk Summary
10 contained questions to guide a supervisor during a compliance check and space for the
11 supervisor to document answers. Id. Lowe testified generally that she believed that the
12 stores she oversaw in San Francisco complied with Walgreens controlled substance
13 dispensing policies. See Lowe Decl. ¶¶ 11–14; Lowe, June 13, 2022, Trial Tr. at 3028:23–
14 3029:4; 3037:15–3038:4.

15 The Court finds Lowe’s testimony unpersuasive. The evidence showed that store
16 supervisors and district managers performed a review that included “40-plus tasks,” only
17 one of which directly involved good faith dispensing. Lowe, June 13, 2022, Trial Tr. at
18 3041:1–3042:8; WAG-MDL-03100. During their store walks, Walgreens expected its
19 supervisors and district managers to cover dozens of broad questions across a range of
20 topics with store employees. See WAG-MDL-03100. The questions included:

- 21 • “Is the pharmacy manager and/store manager recognizing team members for doing
22 their best work?”
- 23 • “Are store leaders sharing the store’s FY Delight target AND monthly Delight
24 scores?”
- 25 • “Does the RXM and/store manager have an effective plan to sustain Extraordinary
26 Customer Care?”
- 27 • “Talk about your high performers. What is being done to help develop, make them
28 feel challenged and grow their careers?”

1 Id. (original emphasis). The one question regarding the Good Faith Policy was: “Is the
2 pharmacy following the Good Faith Policy?” Id. The general nature of the questions and
3 the broad subject matter do not show that supervisors and district managers performed
4 thorough audits of pharmacy operations. See id.

5 Indeed, Lowe’s testimony demonstrated that the store walks consisted largely of
6 cursory spot checks that involved little more than briefly monitoring and speaking with
7 pharmacy employees. See Lowe, June 13, 2022, Trial Tr. at 3042:16–3043:14 (“I did do
8 audits when I was at the store. I looked over the shoulders of the pharmacists as they were
9 filling prescriptions.”); see also id. at 3043:3–14. One would expect that employees would
10 take a more proactive approach to complying with a corporate policy when a supervisor
11 with a checklist was present. Moreover, because Lowe only visited each store under her
12 supervision once or twice a month, she lacks foundation to offer meaningful testimony
13 about how the stores ran on a usual day. See id. at 3043:3–20. Lowe’s periodic store
14 walks do not establish that Walgreens pharmacies were policy compliant.

15 Additional evidence showed that Lowe’s oversight of her stores was imperfect. In
16 April 2019, one of the pharmacies under Lowe’s supervision noted that it was refusing all
17 prescriptions from a suspicious doctor named Guido Gores who was prescribing enormous
18 volumes of opioids. Lowe, June 13, 2022, Trial Tr. at 3050:4–3051:8. At trial, Lowe did
19 not recall the refusal to fill, but she testified that she would have seen it. Id. at 3051:8–17.
20 In October 2020, another Walgreens pharmacy stopped filling prescriptions for Gores
21 because of his suspicious prescribing patterns. See id. at 3051:25–3053:7. During this
22 time, Walgreens also learned that Gores was under DEA investigation based on his
23 prescribing. Id. at 3053:19–24. Even though Lowe knew about the concerns around
24 Gores’ prescribing and that two pharmacies had stopped filling his prescriptions, she
25 testified that she did not alert the other pharmacies that she supervised to be on the lookout
26 for Gores’ prescriptions. See id. at 3055:10–3057:4. The available dispensing data
27 showed that after the first San Francisco Walgreens pharmacy began refusing to fill Gores’
28 prescriptions, other San Francisco Walgreens pharmacies went on to dispense 86,904

1 opioid pills pursuant to his prescriptions.²⁵ See id. at 3057:3–24. Lowe conceded that if
 2 she had sent out an email directing pharmacies not to fill his prescriptions, the 86,904
 3 opioid pills would not have been dispensed. Id. at 3058:5–3062:5. Clearly no email was
 4 ever sent.

5 **7. Illegitimate Prescribing in San Francisco**

6 Illegitimate prescriptions helped to fuel the opioid epidemic. See Keyes Decl. ¶ 88.
 7 An illegitimate prescription is one that is not written by a prescriber or not filled by a
 8 patient for the purpose of medical treatment. See 21 C.F.R. § 1306.04(a). People who
 9 take opioids for non-medical purposes often obtain them from doctors. See Keyes Decl. ¶¶
 10 65–67, 81; Keyes, June 1, 2022, Trial Tr. at 2232:9–17. Approximately 25% of people
 11 who take opioid prescriptions non-medically report receiving an opioid prescription from a
 12 physician. Keyes Decl. ¶ 82. One study found that as many as 75% of non-medical users
 13 obtained a prescription for opioids during the course of their use.²⁶ Id. ¶ 67. In another
 14 recent study of individuals undergoing treatment for opioid addiction, 25% reported that
 15 doctors were their primary ways of obtaining opioids, and over 50% reported that doctors
 16 were among the various ways in which they obtained opioids. Id. ¶ 82.

17 Diversion of prescriptions occurs in many ways. Two of the main ones are through
 18 unscrupulous doctors and individuals who doctor shop. See Keyes Decl. ¶ 81, 88. High
 19 volume, unprincipled prescribers—often known as “pill mills”—write opioid prescriptions
 20 that are not medically necessary in exchange for payment. See id. In addition, individuals
 21 engage in “doctor shopping” and manipulation. Id.; Keyes, June 1, 2022, Trial Tr. at
 22 2232:14–17. Doctor shopping involves deceiving prescribers into writing medically
 23 unnecessary prescriptions, including by going to multiple doctors for the same treatment
 24

25 _____
 25 ²⁵ Walgreens dispensing data was available through June 2020.

26 ²⁶ The terms “illegitimate” and “non-medical use” are used interchangeably to describe
 27 prescription opioids that a person has obtained without a legitimate medical prescription. In these
 28 cases, a prescriber has written a user a prescription despite a lack of medical need, a user has
 deceived a doctor into writing a prescription despite lack of medical need, or a user has obtained
 prescription opioids from a third party, such as a friend or drug dealer. In all of these cases, the
 user has no legitimate medical need for the opioid.

1 and feigning symptoms. See Keyes Decl. ¶ 81.

2 Walgreens presented evidence at trial suggesting that most prescribers write
3 medically appropriate prescriptions. The Court assigns the evidence moderate weight.
4 The evidence comes from former DEA deputy Joe Rannazzisi. Rannazzisi testified that
5 “[t]he overwhelming majority of prescribing done by physicians in America is conducted
6 responsibly” and “I think that, if you are talking about 99.5% of the prescribers, no, they
7 are not overprescribing.” Rannazzisi II Tr. at 188:14–21; 192:6–19. But there was no
8 evidence that either statement is based on a study, survey, or analysis, as opposed to
9 Rannazzisi’s general impressions. Further, while it may be reasonable to conclude that
10 most prescribers act in good faith and write prescriptions with the intention of providing
11 medical benefits to their patients, there is no dispute that some unscrupulous prescribers
12 write prescriptions for financial gain, even though the drugs being prescribed have no
13 medical benefit for the person taking them. Indeed, Rannazzisi testified that the focus of
14 the DEA was on “rogue pain clinics and rogue doctors who are overprescribing.” Id. at
15 191:8–192:14. And Keyes testified that illegitimate prescribing by pill mill prescribers
16 was a substantial cause of the opioid epidemic. Keyes, June 1, 2022, Trial Tr. at 2232:9–
17 13.

18 At trial, Plaintiff presented specific evidence that “rogue pain clinics and rogue
19 doctors” prescribed large volumes of opioids and that tens of thousands of these opioid
20 prescriptions were filled at Walgreens San Francisco pharmacies. For example, from 2006
21 to 2020, Walgreens pharmacies in the Bay Area filed 161,696 opioid prescriptions for
22 suspicious and high-volume prescribers, all of whom faced discipline for their prescribing
23 practices and several of whom lost their medical licenses.²⁷ See P-18323a; Catizone Decl.
24 ¶¶ 73–86. Over these fifteen years, Walgreens dispensed more than 6 million opioid pills
25 pursuant to prescriptions written just by these thirty-one prescribers in San Francisco, and
26

27
28 ²⁷ The “Bay Area” includes San Francisco and the surrounding counties for which Walgreens produced dispensing data, namely Alameda, Contra Costa, Marin, Napa, San Mateo, Santa Clara, Solano, and Sonoma. See P-18323a.

1 more than 20 million opioid pills across the Bay Area. See P-18323a; P-28506b. During
2 this period, these thirty-one prescribers accounted for 7.8% of the opioid MMEs dispensed
3 at Walgreens stores in San Francisco. See P-18323a; P-28506b. Four specific
4 prescribers—each of whom ultimately lost their medical license—are discussed below.
5 Most of the opioid prescriptions that these prescribers wrote triggered red flags, but
6 Walgreens nonetheless filled them.

7 **a. Guido Gores**

8 In February 2021, Gores surrendered his medical license after agreeing that the
9 Medical Board of California could establish that he engaged in gross negligence by
10 overprescribing controlled substances, including prescription opioids. See generally P-
11 22297. In particular, Gores prescribed opioids to patients for multi-year periods without
12 any meaningful investigation of the pain they claimed to be suffering. See id. at 000011–
13 13. Gores prescribed opioids to a patient who also received opioid prescriptions from
14 other prescribers and tested positive for heroin use. Id. Another patient complaining of
15 hip pain received an opioid prescription from Gores, even though Gores did not examine
16 his hip. Id. at 00014–15. For over two years, Gores prescribed a third patient over 500
17 milligrams of oxycodone per day—well over five times the 90-milligram daily threshold
18 above which CDC guidelines recommend exercising caution in prescribing—without an
19 examination of the patient’s back pain. Id. at 00020–21. One day after visiting Gores for a
20 refill, a third patient died of an accidental drug overdose. Id. at 00021. Gores continued to
21 increase the dosage of opioid prescriptions for a fourth patient without appropriate
22 examination. Id. at 00022–23. And he wrote the patient a new opioid prescription when
23 the patient claimed—well before he was due for a refill—that his pills had been stolen.
24 See id.

25 Data available to Walgreens showed that Gores was the second highest opioid
26 prescriber in San Francisco and that he was in the ninety-ninth percentile of opioid
27 prescribers nationwide. Keller (dkt. 1392) Decl. ¶¶ 18–20. From 2006 to 2020, nearly
28 10,000 opioid prescriptions written by Gores were filled at Walgreens’ pharmacies, and

1 approximately 82% of these prescriptions triggered at least one red flag. P-28506b.

2 As discussed above in connection with Lowe’s testimony regarding Store Walk
 3 summaries, in 2019, one Walgreens pharmacy in San Francisco stopped filling Gores’
 4 prescriptions because “[h]e has red flag prescribing habits that do not satisfy GFD.” P-
 5 27265 at 00002 (“We have not filled controlled substances from this doctor since 2019.”).
 6 Another Walgreens pharmacy in San Francisco similarly “[r]efused all controls from this
 7 MD beginning 4/2019.” See P-27532 at 0003 (noting “High Qtys of opioids. Not a pain
 8 MD.”). Nonetheless, almost all other Walgreens pharmacies in San Francisco continued to
 9 fill Gores’ opioid prescriptions until he was forced to surrender his license. P-28506b.

10 **b. Andrew Giovannini**

11 In May 2012, Giovannini surrendered his medical license for gross negligence
 12 based on overprescribing of opioids. P-27514. For one patient, Giovannini prescribed
 13 over 530 milligrams of OxyContin each day. Id. at 00011. Records for the patient show
 14 that Giovannini’s examinations were “limited and inadequate” and many of “his office
 15 notes are virtual duplicates.” Id. at 00012. For a second patient, Giovannini prescribed
 16 over 800 milligrams of oxycodone per day, despite having information showing that the
 17 patient obtained opioid prescriptions from other physicians. Id. at 00013. Four days after
 18 another healthcare provider informed Giovannini that the patient was receiving opioids
 19 from multiple prescribers, Giovannini prescribed the patient “250 oxycodone 30 mg
 20 tablets, 120 OxyContin 80 mg tablets, and 180 oxycodone 40 mg tablets[.]” Id. For a
 21 third patient, Giovannini prescribed 1,110 milligrams of oxycodone per day, and he
 22 prescribed “well over a thousand” milligrams per day to a fourth. Id. at 00014–16.

23 The volume of Giovannini’s annual opioid prescriptions increased thirteen-fold
 24 between 2006 to 2010, going from 306 in 2006 to 3,960 in 2010. Catizone Decl. ¶ 79.
 25 From 2006 to 2010, Walgreens pharmacies in San Francisco filled nearly 9,000 opioid
 26 prescriptions written by Giovannini. See P-28506b. Approximately 94% of Giovannini’s
 27 opioid prescriptions filled in San Francisco triggered at least one red flag, and almost 25%
 28 of the opioid prescriptions were paired with a prescription for a benzodiazepine. P-

1 28506b.

2 As with Gores, Walgreens pharmacists expressed concern about the legitimacy of
 3 Giovannini’s prescriptions. Gayle Tr. at 97:7–15 (“I believe that most everyone in the area
 4 knew he was a real fishy doctor to fill for”); Lo Decl. ¶ 22 (testifying that his store had “an
 5 informal policy” of not filling Giovannini’s prescriptions because of his “prescribing
 6 patterns and patients’ suspicious behaviors”). Gayle recalled a suspicious incident that
 7 stuck with her “even now [] six years later” when three patients carpooled to her pharmacy
 8 with prescriptions from Giovannini that were “very, very similar, if not the same.” Gayle
 9 Tr. at 92:8–94:25. She testified that the prescriptions were all for the holy trinity and that
 10 the patients had traveled from Oakland and paid cash, all of which are red flags. *Id.* at
 11 94:16–95:22. Despite the numerous concerns around Giovannini’s prescribing, Walgreens
 12 pharmacies continued to fill his prescriptions. *See* P-28506b.

13 **c. Collin Leong**

14 Leong surrendered his medical license in 2014 after criminal charges were filed
 15 against him. *See* P-27610; P-27568. The criminal complaint alleged that he wrote opioid
 16 prescriptions to homeless people who would fill the prescriptions and turn them over to
 17 Leong’s co-conspirator who would sell them on the street. *See* P-27568. In addition to
 18 being charged with engaging in a criminal enterprise, the California State Medical Board
 19 revoked Leong’s license for acting with gross negligence in writing controlled substance
 20 prescriptions. *See* P-27610. One of Leong’s patients was a 22-year-old who paid cash for
 21 each visit and to whom Leong prescribed “large quantities” of opioids and muscle relaxers
 22 without any evidence of any medical examination. P-27610 at 00011 (“[Leong’s] medical
 23 record for [that patient] fails to document physical examination or findings, and contains
 24 insufficient physical findings to support his clinical diagnosis.”). A second patient was a
 25 20-year-old who also paid cash and received large quantities of prescription opioids. *Id.* at
 26 00014 (“[Leong] prescribed Vicodin, Norco, oxycodone, Soma, Valium, and promethazine
 27 with codeine cough syrup. Respondent’s chart fails to document any rationale for the
 28 prescriptions.”). A third patient was a 27-year-old who received several opioid

1 prescriptions without physical examination. Id. at 00019. Leong also prescribed opioids
 2 for patients in their 50's and 60's without meaningful examination of the patients' medical
 3 conditions. Id. at 00016–17, 00021–22, 00023–24.

4 Between 2006 and 2013, Walgreens pharmacies in or near San Francisco filled
 5 almost 2,200 of Leong's opioid prescriptions, almost 79% of which hit on red flags. P-
 6 28506b. As was the case with Giovannini, some San Francisco Walgreens pharmacies
 7 adopted an informal policy of refusing Leong's prescriptions because of his suspicious
 8 prescribing practices, but the majority continued to fill them. See Lo Decl. ¶ 22; P-
 9 28506b.

10 **d. John Pierce**

11 In December 2019, Pierce agreed to surrender his medical license in response to
 12 charges of gross negligence in overprescribing controlled substances, including opioids.
 13 See P-28430. Without performing any meaningful medical examination, Pierce and his
 14 physician assistant prescribed high volumes of opioids and muscle relaxers to one patient
 15 who had several underlying health conditions and a history of alcohol abuse. Id. at 00016–
 16 17 (“There was no documentation of the patient's complaints of pain, history of present
 17 illness, no details of physical features/symptoms, and no vital signs were taken.”). Pierce
 18 continued to prescribe another patient morphine sulfate and Fentanyl patches “without
 19 documenting findings to support the prescribing.” Id. at 00018–19. He later began
 20 prescribing the patient benzodiazepines as well, despite the high risks presented by taking
 21 benzodiazepines at the same time as opioids. See id. Pierce wrote the patient several
 22 prescriptions for early refills after the patient claimed that his opioids prescription had
 23 been stolen. Id. at 00020.

24 Walgreens pharmacies in or near San Francisco dispensed more than 10,000
 25 prescriptions written by Pierce, 75% of which hit on at least one red flag. See P-28506b.
 26 Gayle testified that Pierce “frequently” prescribed “a triad of medications that were
 27 suspicious that I mentioned earlier, Soma, which is a muscle relaxant, a benzodiazepine
 28 like clonazepam, and then I believe like a Norco, hydrocodone /acetaminophen.” Gayle

1 Tr. at 74:17–75:3. This is a “pretty serious” red flag. Id. at 75:4–75:10.

2 In August 2019, the Walgreens Pharmaceutical Integrity Team received the
 3 question: “Should we stop filling control substances for this provider if the CA BOP sent
 4 out this email that John WINTHROP Pierce (CA license G45225) license has been
 5 suspended (see copy of email below) – but showing current on the CA Medical board’s
 6 website?” P-28997 at 00001. Lowe, a district manager of Walgreens San Francisco
 7 pharmacies at the time, testified that it would surprise her that Walgreens pharmacies in
 8 San Francisco would continue to fill Pierce’s prescription despite his admission of gross
 9 negligence. Lowe, June 13, 2022, Trial Tr. at 3064:1–20. The record does not contain a
 10 response from the Pharmaceutical Integrity Team. But even though Pierce’s license was
 11 suspended, Walgreens San Francisco pharmacies continued filling his prescriptions for
 12 several more months. See P-28506b.

13 **D. Walgreens Substantially Contributed to The Opioid Epidemic in San**
 14 **Francisco**

15 As detailed above, the evidence presented at trial supports a reasonable inference
 16 that from 2006 to 2020, Walgreens pharmacies in San Francisco filled a significant volume
 17 of illegitimate opioid prescriptions that caused more than negligible or theoretical harm in
 18 the city.

19 The CSA and its implementing regulations create a “closed system of distribution”
 20 in order to guard against diversion of controlled substances. See Catizone Decl. ¶ 6. In
 21 exchange for the authority to deal in controlled substances, every entity that operates
 22 within this system must take reasonable steps to prevent diversion. See Rannazzisi I Tr. at
 23 410:13–411:15. Within this system, pharmacies are “the last line of defense.” Catizone
 24 Decl. ¶ 10. Pharmacies that fill illegitimate opioid prescriptions directly contribute to
 25 opioid diversion. See Rannazzisi II Tr. at 190:10–195:9; Keyes Decl. ¶ 88. To prevent the
 26 harms that result from illegitimate prescribing, pharmacies and pharmacists have a
 27 “corresponding responsibility” to develop and maintain effective systems to identify and
 28 prevent dispensation of illegitimate prescriptions. See 21 C.F.R. § 1306.04(a). Walgreens

1 did not honor this responsibility.

2 A decade ago, the DEA issued multiple show cause orders to Walgreens based on
3 findings that several Walgreens pharmacies filled illegitimate opioid prescriptions. See P-
4 20642; P-19716. The memorandums of agreement that Walgreens entered into to resolve
5 those actions identified systemic deficiencies in Walgreens’ due diligence policies and
6 procedures. See P-19651; P-00015. The memorandums of agreement required Walgreens
7 to develop more effective controls for preventing fulfillment of illegitimate prescriptions.
8 See id. The evidence at trial showed that Walgreens did not hold up its end of the
9 agreement.

10 Following the DEA settlements, Walgreens created the Pharmaceutical Integrity
11 Team in a purported effort “to ensure that our pharmacists were being consistent” when
12 they were fulfilling their corresponding responsibility. See Polster II Tr. at 25:19–26:16.
13 The Pharmaceutical Integrity Team’s efforts were inadequate window dressing. The due
14 diligence policies that the Pharmaceutical Integrity Team implemented excluded some of
15 the most widely abused opioids in the country, and the due diligence processes that the
16 team developed were both impractical and inadequate. See supra I.C.4. Pharmacists
17 completed due diligence on paper checklists, had inadequate tools to identify suspicious
18 prescribers even when Walgreens corporate had such information on hand, and lacked the
19 ability to share concerns about suspect prescribers that they identified. Id. In addition,
20 pharmacists continued to face systemic obstacles that prevented them from consistently
21 performing due diligence. See supra I.C.5.a–e. These obstacles included understaffing,
22 intense time pressure, insufficient resources, lack of training, and misaligned incentives.
23 See id. The evidence presented at trial showed that Walgreens corporate was more
24 concerned about increasing the volumes of prescriptions that its pharmacies filled than it
25 was with ensuring that its pharmacies performed adequate due diligence before dispensing
26 drugs that carry high risks of abuse.

27 Walgreens’ failure to support its pharmacists resulted in those pharmacists
28 dispensing hundreds of thousands of red flag opioid prescriptions without adequate due

1 diligence. Walgreens’ “fill, fill, fill” culture prevented pharmacists from consistently
2 resolving red flags before dispensing prescriptions. See Gayle Tr. at 17:1 –4; Lo, May 12,
3 2022, Trial Tr. at 915:7–919:4. Walgreens’ Good Faith Policy states that it is “imperative”
4 that pharmacists document resolution of red flags before dispensing a prescription. WAG-
5 MDL-00304.00004 (emphasis added); see also P-29904 at 00001 (“Regardless if the
6 decision is to fill or refuse, make sure they properly document the steps taken to reach that
7 decision either on the prescription hardcopy or the IC+ image/profile.”). Yet the evidence
8 of documentation was exceedingly thin. The evidence demonstrated that Walgreens
9 pharmacists in San Francisco performed adequate due diligence for less than 5% of opioid
10 prescriptions that hit on red flags. See Park Decl. ¶¶ 24–26 (“[T]he notes I reviewed from
11 Walgreens’ computer system provide little to no information that any reasonable
12 pharmacist or pharmacy would interpret as documentation that red flags were identified or
13 resolved.”); see also McCann Decl. ¶ 67.

14 Walgreens’ multi-decade-long failure to take reasonable steps to ensure that its
15 pharmacies could perform adequate due diligence on controlled substance prescriptions is
16 especially striking given the enormous volume of opioid prescriptions that Walgreens
17 pharmacies dispensed in San Francisco. From 2006 to 2020, Walgreens pharmacies in San
18 Francisco filled 2,478,103 opioid prescriptions. See McCann Rebuttal Decl. ¶ 4. Of these
19 prescriptions, 1,251,307 (or 50%) hit on at least one red flag. See id. Each year,
20 Walgreens pharmacies in San Francisco dispensed an average of 83,420 red flag opioid
21 prescriptions each year. Id. In total, the red flag opioid prescriptions dispensed each year
22 contained an average of 5,005,200 opioid pills. Id.

23 That a prescription hit on one or more red flags does not prove that the prescription
24 was illegitimate. But the sheer volume of red flag prescriptions that Walgreens San
25 Francisco pharmacies dispensed without adequate due diligence supports a reasonable
26 inference that diversion occurred at those pharmacies. Further, the evidence established
27 that pill mill doctors were a substantial contributor to the opioid epidemic and that many
28 people who abuse opioids obtain prescriptions from prescribers. See Gayle Tr. at 74:17–

1 75:3; 92:8–92:15; Lo Decl. ¶ 22; Keyes Decl. ¶ 81, 82, 88. As an example, thirty-one
 2 prescribers—all of whom were subject to disciplinary action stemming from improper
 3 prescribing—wrote 161,696 opioid prescriptions that were filled at Walgreens pharmacies
 4 from 2006 to 2020. See P-18323a; Catizone Decl. ¶¶ 73–86. Multiple times, Walgreens
 5 pharmacists in San Francisco raised concerns about the legitimacy of the prescriptions
 6 written by these prescribers, but Walgreens pharmacies nevertheless continued to fill their
 7 prescriptions—in some cases even after disciplinary proceedings had been initiated against
 8 the prescriber. See supra I.C.7. This evidence further demonstrates the reasonableness of
 9 the inference that significant volumes of illegitimate prescriptions were written in and near
 10 San Francisco and filled at Walgreens pharmacies in San Francisco.

11 The nature and severity of the opioid epidemic in San Francisco also supports the
 12 inference that illegitimate prescriptions were being written and filled in the city. Over the
 13 course of little more than a decade, the volume of prescription opioids and rates of opioid
 14 misuse and addiction increased significantly. See supra I.A.2 & I.A.3. The growing rates
 15 of addiction and the presence of unscrupulous doctors bolsters the inference that
 16 illegitimate prescriptions were being written and filled in the city. The evidence presented
 17 at trial makes clear that Walgreens, the dominant retail pharmacy chain in San Francisco,
 18 which had a history of failing to comply with federal regulations, filled a significant
 19 volume of illegitimate opioid prescriptions. In so doing, Walgreens contributed directly to
 20 opioid diversion and made the opioid epidemic in San Francisco worse than it otherwise
 21 would have been.

22 **II. CONCLUSIONS OF LAW**

23 Plaintiff proved that Walgreens is liable for substantially contributing to the public
 24 nuisance—the ongoing opioid epidemic—in San Francisco. A nuisance is “[a]nything
 25 which is injurious to health . . . or is indecent or offensive to the senses, or an obstruction
 26 to the free use of property, so as to interfere with the comfortable enjoyment of life or
 27 property.” Cal. Civ. Code § 3479. A public nuisance “affects at the same time an entire
 28 community or neighborhood, or any considerable number of persons.” Id. § 3480.

1 Plaintiff is authorized to bring this action for abatement of a public nuisance
 2 existing within San Francisco. Cal. Civ. Code § 3494. To succeed on its public nuisance
 3 claim at trial, Plaintiff had the burden of proving by a preponderance of the evidence that
 4 Walgreens had knowledge that its unreasonable conduct caused a substantial interference
 5 with a right common to the public. See People v. ConAgra Grocery Prod. Co., 17 Cal.
 6 App. 5th 51, 78–112 (2017). Plaintiff carried its burden.

7 **A. Unreasonable Conduct with Knowledge**

8 Plaintiff proved that Walgreens engaged in unreasonable conduct by dispensing
 9 hundreds of thousands of red flag opioid prescriptions without due diligence in violation of
 10 21 C.F.R. § 1306.04(a). In addition, Plaintiff proved that Walgreens failed to implement
 11 an effective suspicious order monitoring system in violation of 21 C.F.R. § 1301.74.

12 Even though Walgreens engaged in two forms of unreasonable conduct, the Court’s
 13 finding of liability rests on Walgreens’ violation of 21 C.F.R. § 1306.04(a). This is
 14 because of the direct link from dispensing to diversion. The suspicious orders that
 15 Walgreens distribution centers failed to identify were sent to Walgreens pharmacies.
 16 Walgreens contributed to opioid diversion when its pharmacies filled red flag prescriptions
 17 without due diligence. Because Walgreens’ distribution centers did not ship opioids to
 18 pharmacies outside of Walgreens, there is no link to additional harm. The diversion
 19 happened at Walgreens pharmacies.

20 **1. Unreasonable Conduct**

21 Conduct encompasses any action that “assist[s] in creating a system that causes” an
 22 interference with a public right. City of Modesto Redevelopment Agency v. Superior
 23 Court, 119 Cal. App. 4th 28, 40–41 (2004); Restatement (Second) of Torts § 821B; see
 24 also ConAgra, 17 Cal. App. 5th at 79. Conduct is unreasonable if it violates a statute,
 25 ordinance, or administrative regulation. In re Firearm Cases, 126 Cal. App. 4th 959, 987
 26 (2005); Ileto v. Glock Inc., 349 F.3d 1191, 1210 (9th Cir. 2003). Conduct is also
 27 unreasonable if “the gravity of the harm outweighs the social utility of the defendant’s
 28 conduct.” San Diego Gas & Electric Co. v. Superior Court, 920 P.2d 669, 697 (1996).

1 Under the public nuisance safe harbor, “[n]othing which is done or maintained under the
2 express authority of a statute can be deemed a nuisance.” Cal. Civ. Code § 3482.

3 **a. 21 C.F.R. § 1306.04(a)**

4 Plaintiff proved that Walgreens violated 21 C.F.R. § 1306.04(a). Section
5 1306.04(a) states:

6 A prescription for a controlled substance to be effective must be issued for a
7 legitimate medical purpose by an individual practitioner acting in the usual course
8 of his professional practice. The responsibility for the proper prescribing and
9 dispensing of controlled substances is upon the prescribing practitioner, but a
10 corresponding responsibility rests with the pharmacist who fills the prescription.
11 An order purporting to be a prescription issued not in the usual course of
12 professional treatment or in legitimate and authorized research is not a prescription
13 within the meaning and intent of [21 U.S.C. § 829] and the person knowingly
14 filling such a purported prescription, as well as the person issuing it, shall be
15 subject to the penalties provided for violations of the provisions of law relating to
16 controlled substances.

17 21 C.F.R. § 1306.04(a).

18 “The corresponding responsibility to ensure the dispensing of valid prescriptions
19 extends to the pharmacy itself.” Holiday CVS, L.L.C., d/b/a CVS/Pharmacy Nos. 219 and
20 5195, Decision and Order, 77 FR 62316-01, 2012 WL 4832770, at *62341 (Oct. 12, 2012);
21 Top RX Pharmacy, Decision and Order, 78 FR 26069-01, 2013 WL 1838477, at *26082
22 (May 3, 2013) (citing cases). And “[t]he DEA has, in fact, found pharmacy-level
23 responsibility for failing to properly monitor the dispensing practices of pharmacists[.]”
24 Cherokee Nation v. McKesson Corp., No. CIV-18-056-RAW, 2021 WL 1200093, at *6
25 (E.D. Okla. Mar. 29, 2021).

26 The CSA’s corresponding responsibility requirement requires pharmacists and
27 pharmacies to identify and resolve objective signs “arising during the presentation of a
28 prescription” that create “a reasonable suspicion that the prescription is not, on its face,
legitimate.” United States v. City Pharmacy, LLC, No. 3:16-CV-24, 2017 WL 1405164, at
*4 (N.D.W. Va. Apr. 19, 2017); Pharmacy Doctors Enterprises d/b/a Zion Clinic
Pharmacy, Decision and Order, 83 FR 10876-01, 2018 WL 1252035, at 10896 (March 13,

1 2018).

2 To prove a violation of the corresponding responsibility, a plaintiff must show that
 3 (1) a pharmacy dispensed a controlled substance, (2) “a red flag was or should have been
 4 recognized at or before the time the controlled substance was dispensed,” and (3) “the
 5 question created by the red flag was not resolved conclusively prior to the dispensing of
 6 the controlled substance.” Holiday CVS, L.L.C., 77 FR 62316-01, 2012 WL 4832770, at
 7 *62341. Prescriptions with unresolved red flags cannot be dispensed. See City Pharmacy,
 8 LLC, No. 3:16-CV-24, 2017 WL 1405164, at *4.

9 At trial, Plaintiff proved that Walgreens pharmacies violated 21 C.F.R. § 1306.04(a)
 10 for fifteen years. This is unreasonable conduct sufficient to support a public nuisance
 11 claim. The CSA and its implementing regulations strike a bargain with registrants. In
 12 exchange for the privilege of dispensing powerful controlled substances, pharmacies are
 13 required to take reasonable steps to prevent those substances from being diverted and
 14 harming the public. In connection with this system, § 1306.04(a) requires pharmacies to
 15 take reasonable steps to prevent the dispensation of illegitimate prescriptions. Walgreens
 16 failed to fulfill this duty.²⁸ The evidence established that it was more likely than not that
 17 Walgreens pharmacies failed to perform due diligence on opioid prescriptions for fifteen
 18 years. From 2006 to 2020, Walgreens San Francisco pharmacies were presented with over
 19 1,200,000 red flag prescriptions. The evidence showed that Walgreens pharmacists only
 20 resolved a fraction of the red flags present in these prescriptions before dispensing them.
 21 There is no social utility in violating a federal regulation designed to protect the public
 22 from harm. See In re Firearm Cases, 126 Cal. App. 4th at 987. Walgreens’ fifteen-year
 23

24 ²⁸ The Court previously held that “[p]ublic nuisance claims require the existence of a duty.” City
 25 & Cnty. of San Francisco v. Purdue Pharma L.P., 491 F. Supp. 3d 610, 669 (N.D. Cal. 2020).

26 Upon further consideration, the authority cited by the Court stands for the narrower proposition
 27 that engaging in lawful though potentially “risky” behavior does not support a nuisance claim
 28 without a showing that the harms produced by the behavior outweigh the benefits, and that there is
 link between the behavior and a significant interference with a public right. See In re Firearm
Cases, 126 Cal. App. 4th at 988. This clarification is not necessary to the Court’s conclusions of
 law, which rest on the holding that Walgreens violated the duty imposed by § 1306.04(a).

1 violation of § 1306.04(a) is unreasonable conduct sufficient to support a public nuisance
2 claim.

3 2. Knowledge

4 California’s public nuisance claim has a knowledge requirement. But the California
5 Supreme Court has not squarely addressed the extent to which a plaintiff must prove that a
6 defendant has knowledge of the harm resulting from its unreasonable conduct. The
7 California Court of Appeal articulated the knowledge requirement clearly in People v.
8 ConAgra Grocery Prod. Co., 17 Cal. App. 5th 51, 83–86 (2017).

9 In ConAgra, the California Court of Appeal held that to prove that a defendant
10 acted with the requisite knowledge, a plaintiff must show that the defendant acted “with
11 knowledge of the hazard” that the defendant’s conduct would create. ConAgra, 17 Cal.
12 App. 5th at 84. The ConAgra court explained that acting “with knowledge of the hazard”
13 requires that the evidence be sufficient to support an inference that a defendant “must have
14 known” that its conduct contributed to the alleged harm, not simply that it “should have
15 known.” Id. at 84–85. A plaintiff may “rely exclusively on circumstantial evidence” to
16 prove that a defendant “must have known” that their conduct substantially contributed to a
17 public nuisance. See id.

18 In ConAgra, the court held that the plaintiff presented sufficient evidence to
19 establish that the defendants acted with the requisite level of knowledge because the record
20 “indicated that the defendants had learned about the harms and hazards of lead exposure by
21 the 1920s, yet still promoted its lead products.” ConAgra, 17 Cal. App. 5th at 85. There,
22 the court found that the defendants must have known that lead paint posed a serious risk of
23 harm to children because defendants received publications from congressional hearings
24 and trade associations detailing the hazards of lead paint. Id. at 87. This evidence was
25 sufficient to show that defendants “must have known” about the harms that would result
26 from promoting lead paint for interior use. See id. 85–87.

27 Applying ConAgra here, Plaintiff proved that Walgreens “must have known” of the
28

1 harms that would result from violating its regulatory duties for over a decade.²⁹ The CSA
2 and its implementing regulations reflect the dangers posed by the controlled substances
3 that Walgreens dispenses. The regulations that apply to Walgreens were put in place
4 precisely because of the harms that result when opioids are diverted. Based on the
5 regulatory scheme alone, it is reasonable to infer that Walgreens “must have known” that
6 failing to prevent diversion of opioids would result in harm in San Francisco. Beyond the
7 regulatory scheme, Walgreens received ample notice of the harms caused by opioid
8 diversion. In 2006, the DEA sent distributors of controlled substances, including
9 Walgreens, a letter stating that “[a]s each of you is undoubtedly aware, the abuse
10 (nonmedical use) of controlled prescription drugs is a serious and growing health problem
11 in this country.” P-00035 at 00005. The letter was one part of a broader public awareness
12 campaign that began in the mid-2000s to alert DEA registrants to the rapidly growing
13 nationwide opioid epidemic. Three years after the letter was sent, the DEA found that a
14 Walgreens pharmacy filled “prescriptions issued by physicians for other than a legitimate
15 medical purpose and/or outside the usual course of professional practice in contravention
16 of 21 C.F.R. § 1306.04(a).” P-20642 at 00002. Three years after that, the DEA initiated
17 enforcement actions against several more Walgreens pharmacies based on findings that the
18 pharmacies “consistently failed” to exercise their corresponding responsibility. P-19716 at
19 00001, 00009, 00016.

20 Throughout the 2010s, Walgreens executives recognized the harms that result from
21 the abuse of prescription drugs. In 2012, Polster attended a DEA presentation discussing
22 the severe harms that the diversion of prescription opioids was inflicting across the
23 country. Polster, June 2, 2022, Trial Tr. at 2375:12–18. Polster circulated the takeaways
24 among the “highest levels” at Walgreens. *Id.* The DEA presentation warned, among other
25 things, that “more Americans abuse prescription drugs than the number of: cocaine,
26

27 ²⁹ As in its order on the motions to dismiss, the Court does not decide whether California law
28 incorporates an actual knowledge requirement because the facts proved at trial satisfy the actual
knowledge requirement. See City & Cnty. of San Francisco., 491 F. Supp. 3d at 673.

1 hallucinogen, heroin, and inhalant abusers combined!!!” P-19656 at 00009 (cleaned up).
2 That same year, a Walgreens executive delivered an internal presentation on how the “new
3 hot topic in the news is the epidemic America has: ‘Prescription Pain Drug Abuse.’” See
4 P-20639 at WAG-MDL-01013473. A few years later, Walgreens executives continued to
5 recognize that “[p]rescription drug abuse is a serious social and health problem.” WAG-
6 MDL-03189.00002. Viewed as a whole, the evidence presented at trial established that
7 Walgreens “must have known” that violating its regulatory obligations to prevent diversion
8 of opioids would substantially contribute to the opioid epidemic in San Francisco.

9 **B. Factual and Legal Causation**

10 “The elements of a cause of action for public nuisance include ... causation.” See
11 Melton, 183 Cal. App. 4th at 542. A plaintiff must prove factual causation, which requires
12 proving that a defendant’s conduct was a “substantial factor in bringing about” the
13 nuisance. ConAgra, 17 Cal. App. 5th at 101. Additionally, a plaintiff must establish that
14 the defendant’s wrongful conduct was not “too remote from the current hazard to be its
15 ‘legal cause,’” i.e., proximate causation. Id. at 103.

16 **1. Factual Causation**

17 Unreasonable conduct must be a substantial factor in contributing to the public
18 nuisance. ConAgra, 17 Cal. App. 5th at 101; Citizens for Odor Nuisance Abatement v.
19 City of San Diego, 8 Cal. App. 5th 350, 359 (2017). “The substantial factor standard is a
20 relatively broad one, requiring only that the contribution of the individual cause be more
21 than negligible or theoretical. Thus, a force which plays only an ‘infinitesimal’ or
22 ‘theoretical’ part in bringing about injury, damage, or loss is not a substantial factor, but a
23 very minor force that does cause harm is a substantial factor.” ConAgra, 17 Cal. App. 5th
24 at 101 (citations and internal quotations omitted).

25 The substantial factor test subsumes “but for” causation. Rutherford, 16 Cal. 4th at
26 969. It also addresses situations “involving independent or concurrent causes in fact.” See
27 id. Conduct may substantially contribute to a nuisance even where there are “independent
28 or concurrent causes in fact.” See id. If a defendant’s conduct operated concurrently with

1 other forces to produce the harm, it is a substantial factor, so long as “the injury, or its full
2 extent, would not have occurred but for that conduct.” In re Ethan C., 54 Cal. 4th 610, 640
3 (2012); see also City of Modesto, 19 Cal. App. 5th at 158 (“[T]he plaintiff need only
4 introduce evidence which affords a reasonable basis for the conclusion that it is more
5 likely than not that the conduct of the defendant was a cause in fact of the result.”)
6 (citations and internal quotations omitted).

7 “Although a finding of causation may not be based on mere speculation or
8 conjecture, such finding may be predicated on reasonable inferences drawn from
9 circumstantial evidence.” City of Modesto, 19 Cal. App. 5th at 153 (quoting Smith v.
10 Lockheed Propulsion Co., 247 Cal. App. 2d 774, 780 (1967)). “Direct proof of each link
11 in a chain of causation is not required.” Id.

12 California courts have repeatedly held that causation may be reasonably inferred
13 from circumstantial evidence in the context of mass torts. In ConAgra, plaintiff filed a
14 public nuisance claim against manufacturers of lead paint, alleging that the manufacturers
15 promoted the use of lead paint for the interior of homes and buildings, despite knowing of
16 the health hazards that it posed, thereby contributing to a public nuisance in California.
17 ConAgra, 17 Cal. App. 5th at 66. On appeal, defendants argued that plaintiffs failed to
18 prove causation because there was no direct evidence of any customer using lead paint
19 because they believed it was safe based on defendants’ marketing. Id. at 102–03. The
20 Court of Appeal rejected the argument. It held that “there was plenty of evidence that
21 defendants’ affirmative promotions of lead pain for interior residential use played at least a
22 ‘minor’ role in creating the nuisance that now exists.” Id. at 102–03. The evidence
23 established that defendants engaged in multi-year marketing campaigns, aimed at window
24 and door manufacturers as well as consumers, and promoted the use of lead paint for
25 residential interiors. Id. Based on the length of the marketing campaigns and the volume
26 of marketing materials, the Court of Appeal held that “the trial court could reasonably infer
27 that at least some of those who were targets of these recommendations heeded them. That
28 is all that the substantial factor test requires.” Id. at 103.

1 In City of Modesto, the plaintiffs sued manufacturers of dry-cleaning equipment,
2 alleging that they improperly instructed dry-cleaners that dry-cleaning chemicals could be
3 safely released into the environment; in fact, the dry-cleaning chemicals polluted the local
4 water supply and created a public nuisance.³⁰ 19 Cal. App. 5th at 136–42. During a bench
5 trial, plaintiffs offered evidence that for several decades, the manufacturers “took
6 affirmative steps directed toward the improper discharge of solvent wastes” by providing
7 guidance to dry-cleaners to discharge polluted water into sewers. Id. at 147–50. Despite
8 the significant volume of evidence, the trial court ruled that plaintiffs failed to prove
9 liability because they did not prove that a drycleaner “relied on” the manufacturers’
10 guidance or that a dry-cleaner relying on the guidance “caused the contamination.” Id. at
11 150–51.

12 The Court of Appeal reversed. It held that plaintiffs were not required to prove a
13 “chain of causation” with “direct evidence.” Id. The court explained: “We do not agree
14 that the substantial factor test of causation requires the kind of incontrovertible linkage
15 proposed by defendants.” Id. at 152. The court held that “circumstantial evidence of
16 sufficient substantiality from which reasonable inferences can be drawn will support a
17 finding of causation in fact.” Id. at 153 (citation omitted). The court held that plaintiffs’
18 evidence of manufacturers’ multi-year instructions to dry-cleaners to dispose of solvent
19 waste in sewers—despite being aware of the dangers the waste posed—could support a
20 finding of liability, even without direct evidence that any specific dry-cleaner followed a
21 manufacturer’s advice. See id. 152–58. The court vacated the trial court’s ruling on
22 causation and remanded the case with directions to apply the correct causation standard.

23
24
25 ³⁰ While the primary claim in City of Modesto was brought under the Polanco Act—which
26 “involves cleanup of the release of hazardous substances”—the Court of Appeal applied nuisance
27 law principles to interpret the Act’s provisions, explaining that “environmental legislation by
28 which government exercises its traditional power to regulate public nuisances should be construed
in light of common law principles bearing on nuisance.” City of Modesto, 19 Cal. App. 5th at
145. Accordingly, the legal principles discussed in City of Modesto—which are drawn almost
exclusively from nuisance case law—are equally applicable to a nuisance claim. See id. at 145–49
 (“The critical inquiry [was] whether the defendants’ actions, taken as a whole, created or assisted
in the creation of the nuisance.”) (cleaned up).

1 Id. at 159.

2 Here, Plaintiff presented “circumstantial evidence of sufficient substantiality” to
3 permit reasonable inferences that “support a finding of causation in fact.” See City of
4 Modesto, 19 Cal. App. 5th at 152. Plaintiff proved that Walgreens—the largest dispenser
5 of opioids in San Francisco—flouted its regulatory obligation to prevent opioid diversion
6 from 2006 to 2020. During this period, opioid abuse was rampant throughout the city,
7 unscrupulous doctors wrote significant volumes of suspect opioid prescriptions, and
8 Walgreens pharmacies filled tens of thousands of the prescriptions written by these
9 doctors. Walgreens San Francisco pharmacies received over 1,200,000 red flag opioid
10 prescriptions, yet they performed due diligence for less than 5% of these prescriptions
11 before dispensing them. The evidence presented at trial supports a reasonable inference
12 that Walgreens dispensed large volumes of illegitimate opioid prescriptions and that it
13 made the opioid epidemic in San Francisco worse than it otherwise would have been.

14 Throughout the trial, Walgreens repeatedly made the point that Plaintiff did not
15 directly prove that Walgreens San Francisco pharmacies dispensed any illegitimate
16 prescriptions. That argument fails because, as explained above, California law is crystal
17 clear that “[d]irect proof of each link in a chain of causation is not required.” See City of
18 Modesto, 19 Cal. App. 5th at 153. Indeed, in light of the overwhelming evidence
19 presented at trial, it is difficult to take seriously the argument that the failure to identify
20 specific illegitimate prescriptions is fatal to Plaintiff’s case.³¹ Walgreens gave short shrift
21 to its regulatory obligations for fifteen years, and its pharmacies failed to perform due
22

23 ³¹ Indeed, because Walgreens’ wrongful conduct took place over fifteen years, circumstantial
24 evidence is almost certainly more persuasive than direct evidence would have been. To proceed
25 by direct proof, Plaintiff would have had to trace each individual illegitimate prescription to each
26 unscrupulous prescriber, show that a Walgreens pharmacy filled the illegitimate prescription, and
27 show that the illegitimate prescription caused harm. And even if Plaintiff had successfully proved
28 up these causal chains, such evidence would have been rightly criticized by Walgreens as de
minimis. But the substantial factor test does not require “the kind of incontrovertible linkage
proposed by” Walgreens. See City of Modesto, 19 Cal. App. 5th at 152. Under the substantial
factor test, Plaintiff “need only introduce evidence which affords a reasonable basis for the
conclusion that it is more likely than not that the conduct of the defendant was a cause in fact of
the result.” See id. at 158 (citation and internal quotations omitted). Plaintiff did so here.

1 diligence on hundreds of thousands of red flag prescriptions, many of which were written
 2 by suspicious prescribers that Walgreens’ own pharmacists warned the company about.
 3 Based on the evidence presented at trial, it is unimaginable that many of the red flag
 4 prescriptions were not diverted. The aggregate evidence that Plaintiff presented at trial
 5 was not only adequate to establish Walgreens’ culpability—it was devastating.

6 **a. The Orange County and West Virginia Cases are Factually**
 7 **Inapposite**

8 In two recent decisions involving the nationwide opioid litigation, two separate
 9 courts held that the plaintiffs in those cases failed to prove causation. In November 2021,
 10 after a multi-month bench trial, judgment was entered in favor of various opioid
 11 manufacturer defendants in the Superior Court of California County of Orange. People v.
 12 Purdue Pharma L.P., No. 30201400725287CUBTCX, 2021 WL 5227329, at *2 (Cal.
 13 Super. Nov. 01, 2021) (“Orange County case”). In July 2022, after another multi-month
 14 bench trial, judgment was entered in favor of various opioid distributors in the Southern
 15 District of West Virginia. See City of Huntington v. Amerisource Bergen Drug Corp., No.
 16 CV 3:17-01362, 2022 WL 2399876, at *1 (S.D.W. Va. July 4, 2022) (“West Virginia
 17 case”). Walgreens was not a party to either case. Neither case involved a pharmacy
 18 defendant that dispensed opioids. The facts of both cases are materially distinguishable
 19 from the facts proven here. The cases do not help Walgreens.

20 Neither the Orange County case nor the West Virginia case involved a pharmacy
 21 defendant alleged to have violated a federal regulation by failing to consistently perform
 22 due diligence on opioid prescriptions over a fifteen-year period. The Orange County case
 23 centered on the allegation that various opioid manufacturers engaged in false and
 24 misleading marketing that deceived prescribers, causing them to write large numbers of
 25 “medically unnecessary” prescriptions.³² Orange County Case, 2021 WL 5227329, at *7.
 26 The West Virginia case involved allegations that three opioid distributors failed to identify

27 _____
 28 ³² Plaintiff brought claims against several opioid manufacturers in this case, but those claims have
 been settled or stayed.

1 and halt suspicious opioid orders and instead shipped the suspicious orders to pharmacies
2 where they were subsequently diverted. See West Virginia Case, 2022 WL 2399876, at
3 *13.

4 In both cases, the courts held that the plaintiffs’ theories of liability involved
5 extended chains of causation that the plaintiff failed to prove. In the Orange County case,
6 the plaintiffs’ theory of liability required proof that the defendants’ marketing contained
7 false and misleading statements about the safety and efficacy of opioids, that these
8 statements reached prescribers, and that the falsehoods in the statements caused prescribers
9 to write medically unnecessary prescriptions (i.e. prescriptions that the prescribers wrote
10 because they were deceived into believing that opioids are safer and more effective than
11 they actually are). See Orange County Case, 2021 WL 5227329, at *8–9. The Orange
12 County court held that plaintiffs failed to prove this claim because they offered “no
13 evidence of medically inappropriate prescriptions caused or induced by any allegedly false
14 or misleading marketing and promotion by Defendants[.]”³³ Id. at 10.

15 In the West Virginia case, the plaintiffs’ theory of liability required them to prove
16 that defendants failed to maintain adequate systems to identify suspicious opioid orders,
17 that defendants shipped suspicious opioid orders to pharmacies in violation of their duty to
18 halt the orders, and that the suspicious orders that they should have halted were
19 subsequently diverted at the pharmacy level. See West Virginia Case, 2022 WL 2399876,
20 at *13–25. As an initial matter, the court ruled that the plaintiffs did not prove that any of
21 the defendants failed to implement systems to identify suspicious orders. Id. (“Plaintiffs
22 did not prove that defendants failed to maintain effective controls against diversion and
23
24
25

26 ³³ The Orange County case is consistent with ConAgra and City of Modesto. The Orange County
27 court did not hold that plaintiffs were required to prove causation with direct evidence. See
28 Orange County Case, 2021 WL 5227329, at *11. Rather, the Orange County court ruled that
plaintiffs had failed to carry their burden of introducing sufficient evidence to prove a causal
connection between the defendants’ conduct and resulting harm. See id. at *10–11.

1 design and operate sufficient SOM systems to do so.”³⁴ In addition, the court ruled that
 2 plaintiffs failed to “identify a single pharmacy customer of defendants that was engaged in
 3 diversion.” Id. at 34. In other words, even if defendants failed to halt suspicious opioid
 4 orders, there was no evidence that those orders caused any harms because there was no
 5 evidence that any of the pharmacies that received the orders improperly dispensed them.
 6 See id.³⁵

7 The case that Plaintiff presented against Walgreens does not suffer similar
 8 evidentiary shortcomings. In the West Virginia case, the court found that the evidence
 9 established that the distributor defendants complied with their obligation to identify and
 10 halt suspicious orders. West Virginia Case, 2022 WL 2399876, at *13–25. In contrast, the
 11 evidence here established that Walgreens’ distribution centers failed to implement and
 12 maintain effective systems for monitoring suspicious orders. Further, unlike the West
 13 Virginia defendants, Walgreens dispensed the prescription opioids that its distribution
 14 centers shipped to its pharmacies. And the evidence established that for fifteen years,
 15 Walgreens San Francisco pharmacies failed to perform adequate due diligence and
 16 dispensed hundreds of thousands of red flag prescriptions. The link between Walgreens’
 17 violation of its regulatory duties and the resulting harm is direct. Walgreens pharmacies
 18 that fill illegitimate prescriptions contribute directly to opioid diversion. In the Orange
 19 County case, the court found that there was “no evidence of medically inappropriate
 20 prescriptions” caused by the defendants’ marketing. See Orange County Case, 2021 WL
 21 5227329, at *10. The causal link that Plaintiff had to prove here is much shorter. Plaintiff
 22 had to show that Walgreens’ unreasonable noncompliance with CSA regulations resulted
 23

24 ³⁴ Indeed, much of the evidence showed that the DEA considered the distributor defendants’
 25 suspicious order monitoring systems to be well above board. See West Virginia Case, 2022 WL
 26 2399876, at *29–35.

27 ³⁵ On August 4, 2022, Plaintiff filed a statement of recent decision with an order issued by the
 28 West Virginia Mass Litigation Panel on August 3, 2022 (“WVMLP order”). See Statement of
 Recent Decision (dkt. 1576). While the WVMLP order both disagrees with and distinguishes the
 West Virginia case, it involves claims brought in West Virginia state court under West Virginia
 state law. See Ex. A (dkt. 1576–1) at 26–37. As such, the Court does not consider the WVMLP
 order here.

1 in the filling of large volumes of illegitimate prescriptions that caused harm in San
2 Francisco. Ample evidence supports this conclusion.

3 2. Proximate Causation

4 Proximate cause involves “various considerations of policy that limit an actor’s
5 responsibility for the consequences of his conduct.” See Ferguson v. Lieff, Cabraser,
6 Heimann & Bernstein, 30 Cal. 4th 1037, 1045 (2003) (citation omitted). “Because the
7 purported causes of an event may be traced back to the dawn of humanity, the law has
8 imposed additional limitation on liability other than simple causality.” See ConAgra, 17
9 Cal. App. 5th at 104. There “is no bright line demarcating a legally sufficient proximate
10 cause from one that is too remote,” People v. Roberts, 2 Cal. 4th 271, 320 fn. 11 (1992),
11 but courts place great emphasis on “foreseeability of harm” in determining whether a
12 proximate cause has been established. Novak v. Cont’l Tire N. Am., 22 Cal. App. 5th 189,
13 196 (2018); see also Pac. Shores Properties, LLC v. City of Newport Beach, 730 F.3d
14 1142, 1168 (9th Cir. 2013).

15 At trial, Plaintiff proved that the numerous forms of harm resulting from
16 Walgreens’ unlawful dispensing of illegitimate opioid prescriptions were foreseeable. The
17 risks posed by opioids have been known to medical practitioners for decades and have
18 been codified in the Controlled Substances Act since 1970. The regulatory duties that the
19 CSA imposes on pharmacies to prevent diversion of opioids reflect the danger that opioids
20 pose. “A lack of reasonable care in the handling, distribution, and administration of
21 controlled substances can foreseeably harm the individuals who take them. That’s why
22 they’re controlled in the first place—overuse or misuse can lead to addictions and long-
23 term health problems.” See Dent v. National Football League, 902 F.3d 1109, 1119 (9th
24 Cir. 2018) (citing the CSA).

25 The evidence at trial established the severity of opioid addiction and the adverse
26 long-term health conditions that can result from prescription opioid abuse. The evidence
27 demonstrated that opioids are highly addictive and have the potential to affect individuals
28 from all walks of life. It further demonstrated the immense challenge of reducing opioid

1 use after a user’s brain has downregulated the amount of dopamine it naturally produces in
2 response to the additional dopamine that opioids cause to be released. Opioid abuse can
3 have extremely destructive effects on people’s lives, causing them to neglect health, family
4 and work. In extreme cases of addiction, they devote all available time, attention, and
5 resources to obtaining more opioids. There was also persuasive evidence showing how
6 abuse of prescription opioids often leads to the use of illicit opioids, including heroin and
7 fentanyl. As addiction becomes more severe, opioid users tend to seek out stronger,
8 cheaper, and more potent opioids. The cycle of addiction is foreseeable. The negative
9 downstream consequences that flow from opioid abuse—including crime, homelessness,
10 and destruction of city property—are also foreseeable. Given the immense difficulty of
11 reducing opioid use and the severe pain of withdrawal, it is foreseeable that individuals
12 suffering from addiction will experience increasingly adverse life events. The potential for
13 opioids to be abused is a risk of which the government has long warned of and of which
14 Walgreens has long been aware.

15 Courts in other jurisdictions have expressed concerns about “extending the law of
16 nuisance to the sale or distribution of opioids[.]” See, e.g., West Virginia Case, 2022 WL
17 2399876, at *56–59; see also State ex rel. Attorney General of Oklahoma v. Johnson &
18 Johnson, 499 P.3d 719, 730 (Okla. 2021). These courts have reasoned that nuisance law
19 traditionally applies only “in the context of conduct that interferes with public property or
20 resources.” See West Virginia Case, 2022 WL 2399876, at *57; State ex rel. Hunter, 499
21 P.3d at 727. These courts have also expressed concern that applying “the law of public
22 nuisance to the sale, marketing and distribution of products would invite litigation against
23 any product with a known risk of harm.” See West Virginia Case, 2022 WL 2399876, at
24 *59. Neither point is persuasive here.

25 Unlike nuisance law in other states, “California law has never imposed such a
26 requirement that there be some form of injury to land or property[.]” See Iletto, 349 F.3d at
27 1213 (“[T]he district court’s determination that a nuisance must be associated with
28 property is contrary to clearly established California law.”). Indeed, “California common

1 law consistently has defined nuisance in broad terms that encompass injuries to health, or
 2 acts that are ‘indecent or offensive to the senses’ or obstructions to the free use of property
 3 in any manner that might interference with the ‘comfortable enjoyment of life or
 4 property.’” Id. (quoting Acuna, 929 P.2d at 615). Further, this case does not raise concern
 5 that “floodgates” of litigation will open against a company that sells any product with a
 6 known risk of harm. Plaintiff’s case against Walgreens is not based on dispensing
 7 controlled substances with known risks of harm—it is based on Walgreens’ fifteen-year
 8 violation of federal regulations that were put in place to prevent the controlled substances
 9 that Walgreens dispenses from causing harm. See Iletto, 349 F.3d at 1214–15. Walgreens’
 10 conduct in dispensing opioids—not the opioids themselves—is the fundamental cause of
 11 the harm here.

12 **C. Substantial Interference with Public Rights**

13 Public nuisance law “protect[s] the quality of organized social life.” See People ex
 14 rel. Gallo, 14 Cal. 4th at 1090. “A public nuisance is one which affects at the same time an
 15 entire community or neighborhood, or any considerable number of persons, although the
 16 extent of the annoyance or damage inflicted up individuals may be unequal.” Cal. Civ.
 17 Code § 3480. “[P]ublic nuisances are offenses against, or interferences with, the exercise
 18 of rights common to the public.” People ex rel. Gallo, 14 Cal. 4th at 1103. The California
 19 Supreme Court has recognized five categories of public rights that can give rise to a claim
 20 for a public nuisance—“the public health, the public safety, the public peace, the public
 21 comfort or the public convenience.” Id.

22 Throughout this case, Walgreens has argued that a public nuisance claim requires
 23 Plaintiff to identify discrete conduct or conditions that are abatable. See, e.g., Joint Motion
 24 for Summary Judgment (dkt. 987–2) at 8–12. Walgreens contends that “every California
 25 public nuisance decision” involves “well-defined conduct” like “emitting noxious odors”
 26 or “a well-defined hazardous condition” like water pollution or lead paint in home. See id.
 27 at 8. Walgreens argues that to be actionable, a nuisance claim must involve discrete
 28 conduct or conditions that can be remedied through abatement. See id.

1 California courts have repeatedly rejected Walgreens’ “ability to abate” argument.
2 See ConAgra, 17 Cal. App. 5th at 109; see also Cnty. of Santa Clara v. Atl. Richfield Co.,
3 137 Cal. App. 4th 292, 306 (2006). “[L]iability for nuisance does not hinge on whether the
4 defendant owns, possesses or controls the property, nor on whether he is in a position to
5 abate the nuisance; the critical question is whether the defendant created or assisted in the
6 creation of the nuisance.” Santa Clara, 137 Cal. App. 4th at 306; People v. Purdue Pharma
7 L.P., 2021 WL 8154036, at *10 (Cal. Super. Mar. 12, 2021) (“The Court declines to limit
8 what qualifies as a nuisance to ‘discrete, identifiable conditions’ since it is not a
9 requirement in the public nuisance statute or the cases interpreting it.”).

10 Consistent with the case law, California statute broadly defines a nuisance as:

11 “Anything which is injurious to health, including, but not limited to, the illegal sale
12 of controlled substances, or is indecent or offensive to the senses, or an obstruction
13 to the free use of property, so as to interfere with the comfortable enjoyment of life
14 or property, or unlawfully obstructs the free passage or use, in the customary
15 manner, of any navigable lake, or river, bay, stream, canal, or basin, or any public
16 park, square, street, or highway, is a nuisance.”

17 Cal. Civ. Code § 3479 (emphasis added).

18 At trial, Plaintiff proved that the opioid epidemic, defined by high rates of opioid
19 abuse, addiction, and overdoses, constitutes a public nuisance. Plaintiff further proved that
20 the opioid epidemic interferes with all five categories of public rights recognized by the
21 California Supreme Court—“the public health, the public safety, the public peace, the
22 public comfort or the public convenience.” People ex rel. Gallo, 14 Cal. 4th at 1103. And
23 Plaintiff proved that Walgreens substantially contributed to the opioid epidemic in San
24 Francisco, which has caused widespread harm across the city and interfered with public
25 peace, comfort and convenience.

26 Plaintiff proved that Walgreens substantially contributed to an opioid epidemic with
27 far-reaching and devastating effects across San Francisco. Abuse of opioids, opioid-related
28 medical conditions, and opioid overdoses have increased markedly in the last twenty years.
People suffering from opioid addiction use opioids on streets and in parks throughout the
city. Widespread opioid use exacerbates crime and fuels the market for illegal opioids.

1 Patients suffering from various opioid-related conditions overwhelm the city's hospitals.
 2 The challenge of responding to daily calls of opioid overdoses taxes the city's emergency
 3 service teams. Many of the victims of opioid overdoses have previously received medical
 4 services but continue to battle addiction. The city has created special paramedic teams to
 5 respond to the severity of opioid abuse across its neighborhoods. Library staff have
 6 received special training on how to administer naloxone in response to opioid overdoses.
 7 Libraries have been forced to close after syringe-clogged toilets overflowed. Excrement
 8 and refuse attributable to opioid use can be found on streets across the city. The city has
 9 had to open new restrooms and syringe disposal sites in an effort to reduce the amount of
 10 waste on the streets. Streets, sidewalks, and parks throughout the city have nevertheless
 11 been forced closed due to opioid-related hazards. Dozens of syringes have been found in
 12 the sandbox at children's playgrounds and in the children's reading area at the city library.
 13 City staff have been stuck with syringes, encountered opioid users overdosing, confronted
 14 opioid-related violence, and found dead bodies. The effects of the opioid epidemic on San
 15 Francisco have been catastrophic. The city has fought hard and continues to do so, but the
 16 opioid epidemic, which Walgreens helped fuel, continues to substantially interfere with
 17 public rights in San Francisco.

18 **III. CONCLUSION**

19 For the foregoing reasons, Plaintiff has proven by a preponderance of the evidence
 20 that Walgreens substantially contributed to the public nuisance in San Francisco.³⁶ A
 21 subsequent trial will be held to determine the extent to which Walgreens must abate the
 22 public nuisance that it helped to create.

23 **IT IS SO ORDERED.**

24 Dated: August 10, 2022



25
 26 CHARLES R. BREYER
 United States District Judge

27
 28 ³⁶ In light of the findings stated herein, Walgreens' motion for judgment on partial findings is denied.