

**NOVATO SANITARY DISTRICT
SELF-MONITORING PROGRAM**

For: August 2020

COLLECTION SYSTEM OVERFLOWS FOR AUGUST 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in August 2020.

The No Spill Certification Confirmation number is: **2579330**.

For: July 2020

COLLECTION SYSTEM OVERFLOWS FOR JULY 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in July 2020.

The No Spill Certification Confirmation number is: **2576742**

For: JUNE 2020

COLLECTION SYSTEM OVERFLOWS FOR JUNE 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in June 2020.

The No Spill Certification Confirmation number is: **2575423**

For: MAY 2020

COLLECTION SYSTEM OVERFLOWS FOR MAY 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in May 2020.

The No Spill Certification Confirmation number is: **2572407**

For: April 2020

COLLECTION SYSTEM OVERFLOWS FOR APRIL 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in April 2020.

The No Spill Certification Confirmation number is: **2569824**

For: MARCH 2020
COLLECTION SYSTEM OVERFLOWS FOR MARCH 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in March 2020.

The No Spill Certification Confirmation number is: **2567981**

For: FEBRUARY 2020
COLLECTION SYSTEM OVERFLOWS FOR FEBRUARY 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in February 2020.

The No Spill Certification Confirmation number is: **2565984**

For: JANUARY 2020
COLLECTION SYSTEM OVERFLOWS FOR JANUARY 2020

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in January 2020.

The No Spill Certification Confirmation number is: **2563970**

For: DECEMBER 2019
COLLECTION SYSTEM OVERFLOWS FOR DECEMBER 2019

The Novato Sanitary District Collection System had one overflow in December 2019:

1. Friday, December 13, 2019, 760 Diablo Ave., Novato, CA, 10102-gallon SSO, CIWQS Event ID 863522, Certification ID 245419, Category II event.

EVALUATION OF OVERFLOWS FOR DECEMBER 2019

1. 760 Diablo Ave.: This SSO was categorized as a Category II event because the overflow volume was over 1,000 gallons, was mostly recovered and did not reach surface waters of the state. Staff and contractor recovered 9,602 gallons (95%) of the discharge. This discharge was determined to be the result of Root Intrusion from a private lateral.

Initial actions

1. On Friday, December 13, 2019 at 1:00pm, Robin Merrill received a call from Kevin Barie of Roy's Sewer reporting sewage coming out of a manhole at 760 Diablo Ave. Robin notified Bob Stiles, Collection System Worker II, of the possible overflow. Bob, contacted, Joe Moreno, CSW II and Nate Adams, CSW I, and directed them to respond immediately to the reported location.
2. Bob Stiles arrived on site first at 1:06pm and confirmed an overflow at 760 Diablo Ave. He pulled the downstream manhole(G17095) to find it flowing at half pipe. He then pulled the upstream manhole(G17041) to find it surcharged to within a foot of the lid. noticed that the overflow occurred under the house and some ponding around the perimeter.
3. Bob called Javier Vega, CSW Lead at 1:07pm and notified him of the situation.
4. Joe Moreno and Nate Adams arrived with the flusher truck at 1:12pm and set up the flusher on manhole G17095.
5. Bob Stiles called Field Services Manager, Jeff Boheim at 1:12pm to notify him of the SSO.
6. At 1:15pm, the stoppage was broken at approximately 15 feet upstream of the manhole. Roots, Rags and Grease were recovered immediately. It was determined to be the probable cause of the overflow.
7. Bob Stiles made contact with one of the residents of the duplex and collected contact information for her and the owner. She told him that she had noticed the SSO two days prior.
8. Jeff Boheim called Collection Systems Superintendent at 1:17pm to notify him of the SSO.
9. Restoration Management, a restoration contractor, was called in to remediate the affected area in the crawl space beneath the residence.
10. The Collections Crew started cleaning up debris around the perimeter of the house by raking up into piles at 1:45pm. Another crew went to pick up sump pumps to dewater any standing water.
11. Collections Crew began dewatering the standing water with the sump pumps and discharging it back into the collection system at approximately 2:30pm.
12. Restoration Management arrived at 2:45pm and immediately began pumping out the crawlspace and returning the sewage back into the collection system until 6pm.
13. Jeff A. arrived at 2:50pm walked around the site taking pictures and talking with the collections crew to get familiarized with the situation. He then began taking measurements to get the square footage of the house.

14. At approximately 3:00pm the collections crew finished recovering the standing water and debris which was a calculated total of 293.5 gallons and returned it to the collection system.
15. The following morning, Javier Vega and Restoration Management returned to finish recovering remainder of the overflow under the house. This was completed at 11:45am.
16. Recovery: As stated above, staff was able to recover 293.5 gallons (2.5%) of the discharge. Restoration Management was able to recover 9308.5 gallons (92%) for a total of 9809. It was estimated that approximately 500 gallons had adsorbed into the ground.
17. Volume Estimation: As described above, staff and reporting party observations, volumetric calculations, spill footprint tests and volumetric bucket tests were used to estimate the volume of the event.
18. After completing calculations, it was determined this was a category II SSO because it was fully contained on the property and did not reach any waters of the state.

Follow-up actions

1. The following Monday, December 16th, Jeff A. assigned the collections crew to perform a CCTV inspection of the districts mainline between Manholes G17095 and G17041. The observation identified there was a small rootball protruding out of the lateral of 760 Diablo Ave and that the lateral was packed full of roots.
2. Restoration Management provided Jeff A. photographs of the lateral in the crawlspace showing that there was a separation of the pipe which allowed for the sewage to fill up the crawlspace.
3. Jeff A. was finally able to make contact with Erik Miller, the property owner, after several calls and messages throughout the weekend. He was notified of situation at his property and the findings of his lateral separation issue and lateral full of roots. He made it clear he was going to get his lateral fixed.

Subsequent Analysis and Actions

1. This line segment was last cleaned using a hydro-flusher truck on August 12, 2019 and is on a 12-month frequency. The cleaning frequency will be increased to 6 months and the line segment will also be added to the rodder schedule.
 2. This event was reported into the CIWQS database on December 16, 2019 as a Category II event, SSO Event ID # 863522 and was certified in CIWQS on December 16, 2019, Certification ID # 245419.
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For: NOVEMBER 2019
COLLECTION SYSTEM OVERFLOWS FOR NOVEMBER 2019

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in November 2019.

The No Spill Certification Confirmation number is: **2559331**

For: OCTOBER 2019
COLLECTION SYSTEM OVERFLOWS FOR OCTOBER 2019

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in October 2019.

The No Spill Certification Confirmation number is: **2557376**

For: September 2019
COLLECTION SYSTEM OVERFLOWS FOR SEPTEMBER 2019

The Novato Sanitary District Collection System had no (0) sanitary system overflows (SSOs) in September 2019.

The No Spill Certification Confirmation number is: **2554040**