

## 48 - Actions taken to characterize, trace, and eliminate each illicit discharge found

All of the water quality complaints, regardless of the suspected cause, are responded to within three business days. The person reporting the potential violation is notified of investigation results if they leave contact information. Illicit connections are considered a top priority complaint and are most often responded to the same business day or within 24 hours.

A. Actions for Business Inspections		
Site Address	Initial Inspection Date	Corrective Action Requested
4747 1st Ave S	11/3/2016	Implement proper cleaning and washing practices
4500 7th Ave S	8/17/2016	Discontinue prohibited discharge
3601 6TH AVE S	8/18/2016	Implement proper cleaning and washing practices
2336 25TH AVE S	7/12/2016	Implement proper cleaning and washing practices
950 E Madison St	3/31/2016	Implement proper cleaning and washing practices
2021 S Grand St	11/30/2016	Implement proper cleaning and washing practices
1511 Rainier Ave S	6/14/2016	Discontinue prohibited discharge
816 Poplar Pl S	6/14/2016	Discontinue prohibited discharge
9001 LAKE CITY WAY NE	2/29/2016	Correct illicit connection
9001 LAKE CITY WAY NE	2/29/2016	Implement proper cleaning and washing practices
11323 Lake City WY NE	5/20/2016	Discontinue prohibited discharge
4800 SAND POINT WAY NE	9/29/2016	Correct illicit connection
13015 Lake City Wy NE	4/21/2016	Implement proper cleaning and washing practices
11525 Lake City Wy NE	5/20/2016	Implement proper cleaning and washing practices
11301 Lake City Wy NE	5/27/2016	Discontinue prohibited discharge
215 S Austin St	9/15/2016	Implement proper cleaning and washing practices
8135 1st Ave S	9/29/2016	Discontinue prohibited discharge
9607 AURORA AVE N	11/7/2016	Implement proper cleaning and washing practices
9632 Midvale Ave N	11/7/2016	Implement proper cleaning and washing practices
9471 Rainier Ave S	5/10/2016	Discontinue prohibited discharge
1900 4TH AVE S	7/20/2016	Discontinue prohibited discharge
1900 4TH AVE S	7/20/2016	Discontinue prohibited discharge
1600 E OLIVE WAY	4/5/2016	Implement proper cleaning and washing practices
1915 21st Ave S	11/8/2016	Implement proper cleaning and washing practices

12421 Greenwood Ave N	11/17/2016	Implement proper cleaning and washing practices
5000 15th Ave NW	1/14/2016	Discontinue prohibited discharge
6012 Martin Luther King Jr Wy S	6/2/2016	Implement proper cleaning and washing practices
9150 Rainier Ave S	6/2/2016	Implement proper cleaning and washing practices
4225 Fremont Ave N	9/29/2016	Discontinue prohibited discharge
149 SW Kenyon St	11/4/2016	Implement proper cleaning and washing practices
1000 NE Northgate Wy	4/12/2016	Implement proper cleaning and washing practices
2762 4th Ave S	4/15/2016	Correct illicit connection
2762 4th Ave S	4/15/2016	Implement proper cleaning and washing practices
7750 BEACON AVE S	1/14/2016	Correct illicit connection
3701 S NORFOLK ST	10/6/2016	Implement proper cleaning and washing practices
1902 S MAIN ST	4/15/2016	Implement proper cleaning and washing practices
222 S HOLTGATE ST	4/21/2016	Discontinue prohibited discharge
745 S MYRTLE ST	7/12/2016	Implement proper cleaning and washing practices
4224 FREMONT AVE N	3/4/2016	Implement proper cleaning and washing practices
8916 226th St SE	4/5/2016	Implement proper cleaning and washing practices
1948 OCCIDENTAL AVE S	4/18/2016	Correct illicit connection
432 S CLOVERDALE ST	6/16/2016	Implement proper cleaning and washing practices
1521 NW 50TH ST	4/21/2016	Discontinue prohibited discharge
1521 NW 50TH ST	4/21/2016	Implement proper cleaning and washing practices
4749 WEST MARGINAL WAY SW	4/28/2016	Implement proper cleaning and washing practices
8230 5TH AVE S	6/3/2016	Implement proper cleaning and washing practices
9411 AURORA AVE N	6/22/2016	Implement proper cleaning and washing practices
2411 6TH AVE S	12/14/2016	Implement proper cleaning and washing practices
309 S CLOVERDALE ST	8/15/2016	Discontinue prohibited discharge
3003 CALIFORNIA AVE SW	8/15/2016	Implement proper cleaning and washing practices
1124 PIKE ST	8/30/2016	Implement proper cleaning and washing practices
9105 LAKE CITY WAY NE	11/10/2016	Implement proper cleaning and washing practices
3714 S HUDSON ST	12/6/2016	Implement proper cleaning and washing practices
1005 BOREN AVE	12/7/2016	Implement proper cleaning and washing practices
12568 33RD AVE NE	12/6/2016	Implement proper cleaning and washing practices
1426 Broadway	12/30/2016	Implement proper cleaning and washing practices

## B. Actions for Spill Response

Case Type	Date	Problem	Summary
SPILL	1/12/2016	Leaking Vehicle (no repair)	A 5 gal transmission fluid spill was reported. The affected areas and drainage structures were cleaned. During the assessment of the spill, the spill responder discovered a separate existing spill. SPU had this issue addressed also.
SPILL	1/13/2016	Leaking Vehicle (no repair)	The Dept. of Ecology notified SPU of a sheen in street. The spill responder cleaned the spill.
SPILL	1/13/2016	Accidental Spill	A private citizen spilled 1/4 gallon of latex paint which reached the CB. The lot and CB were cleaned.
SPILL	1/15/2016	Leaking Vehicle (no repair)	Report of spill in private parking lot. Cleaned with granular and disposed to solid waste.
SPILL	1/20/2016	Construction	Turbid water reported as a discharge from a pipe outfall into Seaview Marina. No turbidity was seen at time of visit since the rain had stopped. During a rain event on the following day, this turbidity returned. The cause was found to be exposed soil at a work site east of the marina. The owner was notified of the situation and responded to a spill of petroleum product and implement soil erosion BMPs to reduce the turbidity. BMPs were implemented and the turbidity was reduced or eliminated.
SPILL	1/21/2016	Construction	SPU received a report of turbid water entering Littlebrook Creek. The SPU Environmental Compliance Inspector responded to the site to determine the cause of the turbid water. During the day, rain had fallen steadily and flow in the culvert was extremely muddy and opaque and near capacity. The inspector identified the source of turbidity coming from a construction site. The inspector contacted the site superintendent for this construction project. The site superintendent admitted that the source was from the construction site and likely due to his employees misappropriating sump pumps that would normally collect stormwater into a holding tank. Within an hour the discharge to the public drainage system of turbid water had stopped.
SPILL	1/21/2016	Leaking Vehicle (no repair)	A garbage truck leaked transmission fluid to the street. The driver did not notice and drove all over the neighborhood until the fluid ran out. Spill was on surface streets for blocks and entered numerous storm drains. The company hired a spill contractor to clean streets and drainage structures.

SPILL	1/15/2016	Broken/Blocked side sewer or pipe	A broken sewer main was impacting Piper's Creek. Notification of the discharge was posted at the beach and creek. Regulatory notifications were sent.
SPILL	2/4/2016	Unknown	Received a report of concrete slurry in CB. Slurry is very old, hardened, and weathered. Documented impacts and sent ERTS.
SPILL	2/5/2016	Leaking Vehicle (no repair)	A tour bus leaked about 30 gallons of diesel to a roadway, then drove off. Diesel pooled in roadway but did not impact drains. SDOT and SPU joint cleaned, with SDOT invoicing the owner.
SPILL	2/9/2016	Other	Fire suppression water was discharged to curb and CB. Water was hot and appeared murky. Source traced and called reporting party.
SPILL	2/10/2016	Mobile business not implementing BMPs	Contractor pouring concrete road panel allowed concrete and wash water to flow 1 block to drain. Cleaned drain and issued NOV for failure to implement BMP's.
SPILL	2/13/2016	Leaking Vehicle (no repair)	Hydraulic oil was spilled to pavement and drains. Spill was cleaned up with a spill kit and vactor truck.
SPILL	2/15/2016	Leaking Vehicle (no repair)	Hydraulic oil was spilled to street. Spill was cleaned up.
SPILL	2/12/2016	Construction	Sheen was emitted from a cold patch at an emergency road repair from a landside. BMP's were implemented by SDOT and SPU field crews to prevent stormwater contamination.
SPILL	2/16/2016	Accidental Spill	Spill of Sewage from an SPU vactor truck. Spill cleaned up by SPU field crews.
SPILL	2/18/2016	Broken/Blocked side sewer or pipe	Side Sewer issue at 13050 Linden Ave N impacting private CB at above address. The property manager was contacted. The site manager is aware of a NOV (Notice of Violation) letter being generated.
SPILL	2/10/2016	Motor Vehicle Accident	A delivery truck punctured a saddle tank and spilled 60 gallons to roadway. The road and affected structures were cleaned.
SPILL	2/26/2016	Leaking Vehicle (no repair)	A minor spill of oil was reported. The spill was cleaned with on hand materials. Oil that entered MS4 was unrecoverable.
SPILL	2/5/2016	Leaking Vehicle (no repair)	A vehicle parked in the apartments' lot is leaking to the pavement. Pads were placed under the leak and a door hanger note was left. The drain was not impacted.
SPILL	2/10/2016	Mobile business not implementing BMPs	Lube oil was spilled to the pavement in a parking lot at 212 S Brandon from a truck undergoing maintenance or possibly leaking the previous day. The trucking company performed a cleanup. There were no impacts to the drains. Separate business inspections will be pursued with the trucking company and mobile mechanic.

SPILL	3/4/2016	Accidental Spill	A homeowner had the driveway re-paved and a sheen was coming from it and going to the street and drain. The inspector arrived on site and used absorbent and boom to help cleanup sheen. There was no recoverable product in drain.
SPILL	3/9/2016	Other	There was a discharge of foam and debris to the stormwater system (secondary to fire and explosion). The MS4 was cleaned, and filter fabric was applied.
WQ	3/9/2016	Other	Foam in the creek was reported. The cause was fire fighting foam from a building explosion and fire.
SPILL	3/9/2016	Illegal Dumping	A paint spill to roadway was reported. The inspector arrived on site and found that paint was going to the drain due to heavy rain. The contractor was called in to clean up the paint and the impacted areas & structures.
WQ	3/10/2016	Construction	Received a report of sediment discharge from a permitted construction site. Referred the complaint to DCI for follow up.
SPILL	3/21/2016	Leaking Vehicle (no repair)	While delivering cars to the dealership, the car carrier had a hydraulic line break. Hydraulic fluid impacted streets and nearby CB's. The responsible party hired a contractor to clean all of the impacted areas and drainage structures.
SPILL	1/21/2016	Construction	A construction company allowed highly turbid stormwater to flow off site and into the public drainage. The company stopped the overflow once it was alerted. A NOV and penalty was issued for this violation.
SPILL	4/18/2016	Construction	There was a report of sediment coming from a construction site. The report was referred to DCI. It was requested to have the CB cleaned.
WQ	4/20/2016	Mobile business not implementing BMPs	Vehicle hood cleaning was causing a discharge to MS4. A penalty was issued.
WQ	4/26/2016	Illicit Connection	The engineering inspector discovered a cross connection while reviewing CCTV footage. Staff worked with the building owner. The cross connection was fixed, and the line was cleaned.
SPILL	5/3/2016	Home Auto Repair/Illegal Auto Repair	Received a report of used motor oil dumped into the CB. Verified the report; the CB and inlet were vacuored.

SPILL	5/4/2016	Broken/Blocked side sewer or pipe	<p>There was a report of a spill of sewage from a blocked sanitary line.</p> <p>The DWW crew on scene was contacted. A pump and bypass was set up. The estimate was that 1/2 gallon of sewage per minute (less than 50 gallons) had entered the MS4 for around an hour. The inspector tried to track this downstream, but it ou falls into a ditch/ wetland area along I-5, and it could not be accessed at the location. The inspector checked several manholes along the line and found nothing to clean or recover. The inspector also tried to notify King County Public Health.</p>
SPILL	5/6/2016	Illegal Dumping	<p>There was an illegal dumping of an strong base (pH12-13) wastewater into a catch basin at 14396 30th Ave NE on Seattle Housing property. SHA recovered waste and disposed of the waste at a King County Small Business Hazardous Waste Site. The waste material appeared to have been confined to the catch basin.</p>
SPILL	5/10/2016	Unknown	<p>There was a spill of an unknown rusty material in the right of way at 8th Ave S and S Portland St. The material left a powdery residue in the gutter and filled a catch basin with unknown waste. The road and catch basin were cleaned and the waste was properly dispose of.</p>
SPILL	5/22/2016	Broken/Blocked side sewer or pipe	<p>A hydrobreak was blocked in the sewer line, overflowed to a detention system and overflowed into the MS4. Sewage overflowed to Elliott Bay at Terminal 91 Port and Alaskan Way W at Elliott Bay Trail. Agencies were notified, and the shoreline was posted as closed.</p>
SPILL	5/21/2016	Motor Vehicle Accident	<p>A bus blew the coolant system on NE Pacific St, just east of emergency entrance to UW Hospital. The surface street and one CB was impacted. Absorbent was applied to the roadway surface and a vactor truck cleaned the affected storm drain.</p>
SPILL	6/7/2016	Illegal Dumping	<p>DWW crew discovered motor oil in drain. The drain was cleaned.</p>
WQ	5/31/2016	Illicit Connection	<p>SPU IDDE source traced elevated bacteria to 10341 44th Ave NE where a cross connection was discovered. The cross connection was repaired by the homeowner.</p>
WQ	5/23/2016	Illicit Connection	<p>The source of bacteria was traced to 4646 NE 89th St. where the homeowner had a cross connection. Staff worked with the owner to have the fix made.</p>
WQ	6/7/2016	Illicit Connection	<p>Elevated surfactant was found to be caused by a cross connection from 11323. The illicit connection was referred to the source control inspector, who has been working with the company to map all their drainage infrastructure, for resolution.</p>

SPILL	6/29/2016	Broken/Blocked side sewer or pipe	A partial sewer mainline backup caused a home to be flooded and ~100 gallons were discharged to the creek. There was surface cleaning, and the blockage was repaired.
WQ	7/1/2016	Construction	There was discharge of process wastewater from a tile saw into the stormdrain inlet. All waste was confined to the inlet. The responsible party cleaned the drain and set up containment for his saw.
SPILL	7/3/2016	Unknown	There was a report of gasoline odor coming from a culvert/creek that discharges to Puget Sound. The inspector arrived at the site and was shown the impacted culvert. The inspector could smell odor. The inspector checked the area but did not find any source for the odor. This was referred to the SWQ group for follow up investigation.
WQ	7/1/2016	Accidental Spill	Grease was found in a maintenance hole (MH) and the source was traced to a compactor. A cleanup was requested.
WQ	6/7/2016	None	Elevated potassium was detected. This was most likely from irrigation water from the garden at an apartment complex.
WQ	6/16/2016	Illicit Connection	A cross connection was discovered & subsequently repaired by the homeowner.
WQ	6/15/2016	Broken/Blocked side sewer or pipe	A broken side sewer was discovered & subsequently repaired by the homeowner.
SPILL	7/12/2016	Motor Vehicle Accident	An auto accident caused a small spill of automotive fluids to the storm drain. The spill was cleaned with absorbent.
SPILL	7/12/2016	Accidental Spill	A drilling rig hit an underground spring discharging cutting liquid directly to creek. SDCI took case and coordinated cleanup and corrective actions.
SPILL	7/19/2016	Leaking Vehicle (no repair)	A vessel discharged 100 - 600 gallons of diesel due to a fuel leak. ECY, Coast Guard, and SPU responded. The vessel owner and marina cleaned up the spill with a private contractor.
SPILL	7/21/2016	Unknown	A leaking semi truck drove through SODO. SDOT and SPU cleaned the large pools of oil.
SPILL	7/22/2016	Broken/Blocked side sewer or pipe	A sewer line broke, overflowing to street. SPU cleaned the affected storm infrastructure and roadway. An emergency repair was conducted by the property owner.
SPILL	7/22/2016	Broken/Blocked side sewer or pipe	A site lift station pump failure caused overflow of sewage. SPU hired a contractor to clean the spill. After several complications, the tenant replaced the system.
WQ	7/27/2016	RV Dumping	Sewage was dumped from an RV. Crews cleaned the CB.

WQ	7/29/2016	Construction	There was a report of paint chips discharging form a bridge project. No evidence of such was found. BMP improvements were required at the recovery facility.
SPILL	8/2/2016	Leaking Vehicle (no repair)	A bus spilled coolant to the right-of-way on California Ave SW. The spill was cleaned up the owner.
WQ	7/13/2016	Illicit Connection	An illicit connection was discovered coming from cooling towers. A contractor was hired by the owner and the fix was made.
WQ	7/6/2016	Unknown	A slightly elevated bacteria value was investigated but no definitive source was located. It was most likely infiltration from a broken side sewer.
WQ	7/13/2016	None	Elevated potassium levels were detected, most likely due to natural levels in groundwater.
SPILL	9/7/2016	Construction	A home remodel sub-contractor washed concrete slurry into a catch basin at end of street. The catch basin and alley were cleaned to remove the pollutant.
WQ	8/23/2016	None	Elevated potassium levels were detected, most likely from ground water.
SPILL	9/14/2016	Broken/Blocked side sewer or pipe	A broken side sewer was found and was tied to a King County mainline. The propety owner was aware of the issue and had a plumber assessing the private side sewer. The property owner was directed to clean the parking lot and private drainage structures. SPU Spill responders notified all relevant local and state agencies of the issues. The side sewer and lift station is shared with another property owner, who was added to the Notice of Violation. The inspector visited the site spoke with repair crew. The buildings are on-line, and the plumbing is repaired.
WQ	8/15/2016	Unknown	
SPILL	9/29/2016	Accidental Spill	Foam coming out of City storm drains was reported. The indicated this was the result of WSDOT testing the fire suppression system in the I-90 tunnel and not being able to keep up with the volume of water and foam, causing discharge to the City MS4.
SPILL	10/1/2016	Motor Vehicle Accident	A car accident caused a motor oil spill which was cleaned with absorbent by SDOT.
SPILL	10/2/2016	Other	City overflow which discharged onto a private parking lot and into a catch basin. The discharge was cleaned.
WQ	10/4/2016	Illicit Connection	Elevated trigger levels and diurnal patterns in storm system led to investigation of cross connection. An illicit connection was found at building. Staff worked with property manager to have the cross connection fixed.

SPILL	10/13/2016	Motor Vehicle Accident	A spill of diesel fuel onto I-5 from a tractor-trailer accident was reported. ECY managed the local accident response while SPU scouted the outfall to Lake Union. A small amount of dilute sheen entered Lake Union. This diesel fuel was unrecoverable. ECY estimated 50 gallons of fuel spilled with the majority of it contained to the highway and recovered by ECY and WSDOT personnel.
SPILL	10/14/2016	Illegal Dumping	A site visit made to a dump site. A small amount (<1 liter) of emulsified oil was present in a pile of illegally dumped garbage and construction debris. Spilled latex paint (<1 gallon) was also present in the pile. An unrecoverable sheen was observed entering both a sanitary sewer grated top maintenance hole and a stormdrain inlet. No sheen or oil was observable in the stormdrain. SPU staff used oil absorbent pads to clean up the emulsified oil and directed the latex contaminated water into the sanitary sewer. The effort was coordinated with the Illegal Dumping crews.
SPILL	10/14/2016	Illegal Dumping	Illegal dumping of diesel fuel into a private catch basin was reported. The business owner hired a contractor to perform cleanup. There were no downstream impacts.
WQ	10/18/2016	Unknown	A small amount of oil spilled into an inlet. SPU staff cleaned this inlet by hand. Staff could not locate a source. Staff scouted downstream and found no further impacts.
SPILL	10/22/2016	Broken/Blocked side sewer or pipe	Sewage was released to the right of way on NE 95th St with impacts to stormdrains and Thornton Creek. The blockage was relieved by SPU field crew after a 12000 gallon release. Warning signage was posted along the creek at foot crossings and at Matthews Beach. Notifications were made to Ecology, Shellfish and Water Protection, Public Health Seattle King County, Seattle Parks, SPU management and PIO, and Seattle Schools. Coordination with PHSKC to verify the water quality and to remove the contamination signage after 2 days.
SPILL	10/26/2016	Construction	A construction company working on the hillside had turbid water discharge to the curb line and CB. They installed gravel berms but it did little to turbidity. The site was reported to SDCI for follow-up.
SPILL	10/31/2016	Motor Vehicle Accident	A car crash punctured a gas tank which leaked to the roadway and catch basin. The drain connected to the Diagonal which was flooded at high tide. SPU put an oil boom at the Diagonal outfall to catch fuel if any entered the pipe.

SPILL	11/22/2016	Leaking Vehicle (no repair)	A hydraulic line broke and leaked about 50 - 80 gallons of hydraulic fluid. Two storm drains were impacted and the property owner blocked the drains to contain the spill. Ecology responded shortly after SPU staff arrived and used absorbent pads and 2 sweeps to cover the heaviest spill area. The property owner cleanup the spill, picked up all the absorbent pads, pumped out he CB's, and pressure washed the asphalt with Simple Green.
WQ	11/30/2016	Construction	Water with elevated pH was discharging from street panel joints near newly poured concrete in a partially separated area. This was determined to be a groundwater issue.
SPILL	11/30/2016	Broken/Blocked side sewer or pipe	SPU staff investigated sewage being pumped into a public area, the ROW and a public catch basin. The inspector advised the Responsible Party that the affected public assets needed to be cleaned. The inspector advised the RP that time was critical as rain was coming and a sidewalk was impacted. Since field crews were readily available they were dispatched to clean the sewage. I explained to the RP that they would be responsible for the cost incurred for the clean up and that they would be receiving an NOV with penalty. A NOV and Invoice for \$1000 was posted on December 12th
SPILL	12/1/2016	Broken/Blocked side sewer or pipe	SPU inspectors responded to milky water coming from 3623 6th Ave S to public drainage system. A private sewer pump had failed and caused the issue. This has occurred multiple times previously at this address. A NOV and Penalty are being levied against the property owner. Clean-up of affected drainage structures, public and private, as well as parking area was done.
SPILL	12/1/2016	Mobile business not implementing BMPs	SPU inspector responded to foam on the road near Lakeside Ave S and S Day St. He found fire fighting foam in the MS4 in area and foam flowing from the sanitary sewer lids. Foam was from WSDOT fire testing/foam replacement in I-90 tunnel. The contractor was on site to attempt to mitigate the foam. The inspector had the contractor clean the affected ROW and MS4 lines. A NOV with penalty was issued for both MS4 and Sanitary environmental issues.
SPILL	12/5/2016	Accidental Spill	A truck sheared a hydraulic line at 655 S Edmunds St. A contractor cleaned the affected public drainage assets.
SPILL	12/22/2016	Construction	A homeowner hired a contractor to remodel a bathroom. The contractor dumped grout water into the storm inlet and catch basin. The homeowner and contractor were required to clean the inlet and CB to remove pollutants.