

AAMJIWNAANG FIRST NATION

Notification Report

March 2018

Wilson Plain Jr. – Emergency Management Planner

April 10, 2018

Report of notifications received from local industries, CVECO, Ministry of the Environment and Climate Change (MOECC) including Spills Action Centre (SAC) and MyCNN notifications.

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Incidents reported for the month of March 2018.

- 43 notifications were received
- 3 phone calls, 2 text messages, 11 emails and 19 CVECO notifications were received
- 2 CVECO 'Codes' were issued. 17 CVECO 'Information Notices' were issued.
- 21 Aamjiwnaang Notifications were sent out (**ANS or FB**)

Ministry of the Environment and Climate Change (MOECC) Information/Update emails received: 19

Community Inquiries: 3 inquiries were received from community members regarding incidents near Aamjiwnaang.

Date	Time of Issue	Time of All Clear	Company	Type of Notice	Description Received	Follow-Up (if required)	ANS or FB
Mar 2	9:42 am	10:16 am	Plains Midstream	CVECO Information	Plains Midstream issuing information code for testing of emergency sirens.		
Mar 2	4:12 pm		Suncor	Email	<p>Temporary increase in truck traffic at Suncor Sarnia Refinery Starting the week of March 5th, the Sarnia Refinery will begin transporting brine product in trucks to a location offsite – which will result in increased truck traffic in and around the refinery. The process is expected to be completed by the end of April.</p> <p>One to two trucks will be loaded every hour, 24 hours a day, five days per week. Shifts will begin at 6 am every Monday during this time period and end at 6 am every Saturday. Only two trucks will be on site at any time and will use Gate 131 at the west end of B Avenue to enter and leave the refinery.</p> <p>For safety considerations and to avoid backing up the southbound traffic on the River Road curve, the trucks will enter Gate 131 from the south using Sun Ave and the circle at the entrance to the parking lot to turn around. Early morning and late afternoon trucks will be scheduled around the regular maintenance hours to minimize congestion in and out of the parking lot.</p> <p>We will make sure that this traffic activity causes minimal disruption to the River Road traffic.</p> <p>Please direct any questions or concerns to Kelly McCaig at 519-333-6987.</p>		FB
Mar 3	12:34 pm		NOVA Corunna	Email	<p>Sharing that this afternoon, our St. Clair River Site facility may experience periods of elevated flaring while the site completes planned maintenance work. This is estimated to last two to three hours.</p> <p>For your awareness, this information has also been shared with community on the CAER Industry Update Line.</p> <p>With thanks Meaghan Lawrence</p>		
Mar 5	8:30 am		Suncor	Email	<p>The Suncor Sarnia refinery is now using its Alternate Flare. This is part of the preparation work we are doing to get the Main Flare ready for planned, turnaround maintenance in April. This means community members may notice flaring on the Alternate Flare; increased noise levels are also possible. As always, we will continue to make every effort to minimize the amount of visible flaring and noise. Please note that the Alternate Flare is scheduled to be in use until late June.</p> <p>Should you have any questions or concerns please contact Kelly McCaig (519) 330-6987 or Jennifer Johnson.</p> <p>Kelly A. McCaig EHS Training Specialist Suncor Energy - Sarnia Refinery 519-333-6987</p>		FB

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Mar 5	9:40 am	10:10 am	Plains Midstream	CVECO Information	Plains Midstream at 1182 plank road issuing an information for testing of their sirens.		
Mar 6	1:10 pm		Imperial	Email	<p>On Wednesday, March 7th, Imperial plans to begin inspection and preventative maintenance of a two-kilometer stretch of pipeline in Sarnia. This work is expected to last approximately four days, and it will involve the use of pigging equipment. A device known as a 'pig' will be inserted into the line to clean and inspect it.</p> <p>During this time, community members may notice the use of a temporary ground flare in the area near Sun Avenue and Vidal Street South. The flare will be used intermittently to safely burn excess ethane, which is a light hydrocarbon. We will make every effort to minimize flaring, and precautionary air monitoring will be conducted. Imperial personnel expect to have the inspection and preventative maintenance completed by March 10th.</p> <p>For more information, please contact Kristina Zimmer at 519-339-4015 or email Kristina.Zimmer@esso.ca.</p>		FB
Mar 6	5:50 pm		NOVA St Clair Site	MOECC (SAC) Information Email>>>	<p>Update Information E-mail for Aamjiwnaang First Nation – Nova Chemicals - Spill of Butene and Cyclohexane to Sewer and St. Clair River MOECC Reference Number: 4237-AUT3C7 Date and Time that the incident occurred: Jan 7/18 @ 8:07 pm Date and Time reported to the MOECC: Jan 7/18 @ 5:45 pm Company name (if known) and location of incident: NOVA Chemicals (St. Clair site), 285 Albert Street, Corunna What has occurred? This update is for a spill that happened on January 7, 2018. Nova Chemicals contacted the Spills Action Centre (SAC) regarding a spill of butene and cyclohexane to their sewer system due to an equipment leak. The company reported that the leak to the sewer began at approximately 5:45 pm and was isolated by 7:45 pm. Butene was in a liquid form at the time of the spill. The company reported that the material had reached the St. Clair River by 8:00 pm and estimated 40 kg of the material leaked to their sewer system. What action is being taken? As a precaution, the ministry-initiated notifications on January 8, 2018 and contacted the Walpole Island First Nation water treatment plant, the Wallaceburg Water Treatment Plant, the Lambton Area Water Supply System, Chatham-Kent Health Unit, Aamjiwnaang First Nation, Michigan Department of Environmental Quality, Michigan State Police, St. Clair Township, City of Sarnia Police, Lambton Health Unit, and Environment and Climate Change Canada. The company isolated the exchanger to stop the leak. The company checked an on-site drainage ditch and did not observe any material and noted there were booms in the ditch where the sewer line discharges. The company collected samples of the discharge at the ditch and at their MISA sampling point prior to discharge to the river. Initial results of an automatic analyzer at their MISA sampling location showed low levels of butene and cyclohexane beginning on January 7, 2018 at 9:55 pm. The company collected grab samples of the water from the ditch and analyzed it for volatile organic compounds. The results from the grab samples showed a peak at 20.4 ppm at 9:05 pm on January 7, 2018 and then declined afterwards. SAC dispatched the ministry's Environmental Response Person and a site inspection was conducted at 9:31 pm on January 7, 2018. An on-site drainage ditch was inspected and although it contained flowing water, no odours could be detected and no</p>	SDS (2) included with report	FB

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				<p>sheen on the surface of the water was observed. Due to adverse weather conditions at the time (freezing rain and snow), ministry staff were not able to collect samples in a safe manner. Ministry staff requested that the company continue to report any sample results to the ministry.</p> <p>Ministry staff contacted the company at 9:00 am on January 8, 2018 to request additional details. On the afternoon of January 8, 2018 the company pumped out spilled material that had collected in a sewer manhole. The company reported that levels of volatile organic compounds from an on-site drainage ditch were continuing to decline. The company also advised that the data collected from the automatic analyzer at their MISA sampling location appeared to be malfunctioning after the contaminants were first detected on January 7, 2018, and that the data was not accurate. After repairing the analyzer, the company reported that levels continued to fluctuate throughout the day on January 8 and 9, 2018, with the average hourly concentration of butene being 1,222 ppb and the average hourly concentration of cyclohexane being 317 ppb. The levels began decreasing by 8:55 am on January 9 and by 2:00 pm had reached 65 ppb and 28 ppb respectively.</p> <p>Downstream Sampling</p> <p>The Sarnia-Lambton Environmental Association’s (SLEA) water quality monitoring station located in the St. Clair River, downstream of the Nova site, began showing detections of low level cyclohexane at 10:00 am on January 8, 2018, and continued to detect low levels until 12:00 am on January 10, 2018. At the request of the ministry, Nova retained a consultant to collect water samples in the St. Clair River downstream of the company’s discharge since details regarding the amount of butene and cyclohexane spilled was unknown at the time of the first report. The consultant collected 24 water samples from the river between 12:50 pm and 9:12 pm on January 8 and at several locations downstream of the SLEA water quality monitoring station, in closer proximity to Walpole Island First Nation. Samples were collected from the surface of the water and at depth (1.25 m to 1.75 m). Sample results showed non-detect for both butene and cyclohexane. A sample collected in close proximity to the source of the discharge from Nova detected butene at 2 ppb and cyclohexane at 5 ppb.</p> <p>Drinking Water</p> <p>There is no drinking water standard in Ontario for butene. The primary issue with butene in drinking water is that it may increase the level of trihalomethanes in treated drinking water. Ministry staff contacted the Walpole Island water treatment plant and confirmed that it has adequate treatment to deal with any increase in trihalomethanes. As a precautionary measure, the water treatment plant operator monitored the raw water intake for any odours. There is also no drinking water standard in Ontario for cyclohexane. Based on the amount estimated to be spilled and the results of water quality monitoring downstream, there were no concerns with respect to impacts on downstream drinking water supplies from either butene or cyclohexane.</p> <p>Other agencies involved (if known): No other Agencies.</p> <p>Updates expected: No further updates.</p>			
Mar 6	5:51 pm		NOVA Corunna	MOECC (SAC) Information Email>>>	<p>Update Information E-mail for Aamjiwnaang First Nation - Nova Chemicals Spill of Benzene to Ground</p> <p>MOECC Reference Number: 0584-AUWUQ</p> <p>Date and Time that the incident occurred: Jan 11/18 5:04 pm</p> <p>Date and Time reported to the MOECC: Jan 11, 2018 5:47 pm</p>	SDS Provided from	FB

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					<p>Company name (if known) and location of incident: Nova Chemicals Corporation: 785 Petrolia Line</p> <p>What has occurred? This update is for a spill that happened on January 11, 2018. The company called the ministry's Spills Action Centre to report an unknown quantity of benzene liquid on their site. The spill began at approximately 5:04 pm and the liquid was partially frozen and contained within Nova's property; there was no discharge to the St. Clair River. The wind was from the south at the time of the spill. Air monitoring results showed low levels of benzene detected close to the area of the spill</p> <p>What action is being taken? The company confirmed that the leak had started at approximately 5:04 pm on January 11, 2018. The company investigated the source of the leak and took action to stop the release. The company deployed vacuum trucks to clean up the material and closed off their effluent discharge to the St. Clair River to prevent any discharge to the St. Clair River. The company conducted air monitoring downwind of the spill area, along their fence line, and did not detect any benzene. The St. Clair Township Fire Department attended the Nova Chemicals site while the company was conducting air monitoring. The fire department reported that they had no concerns as the company was able to control the leak quickly and it was contained on site.</p> <p>The ministry's Environmental Response Person was dispatched to inspect the area. Ministry staff were at the Nova site at approximately 7:15 pm on January 11, 2018. Ministry staff conducted air monitoring using a hand held instrument to measure volatile organic compounds. Ministry staff monitored around the full perimeter of the company's site. The instrument detected low levels of volatile organic compounds both downwind and upwind of the site. The highest reading was downwind and close to the spill area at 0.4 ppm. Other readings were at 0.1 ppm or lower. Ministry staff did not detect any odours around the site.</p> <p>Ministry staff met with the company to gather additional details of the spill. The company provided more details of the cause of the release and confirmed the leak had stopped. The area of the spill was quarantined due to worker health and safety, while clean-up was underway. The company confirmed they had low level readings of benzene near the area of the spill. Ministry staff requested the company report to the ministry any elevated readings of benzene as the clean-up progressed.</p> <p>The ministry requested the company provide the ministry with more details of the volume of the spill, monitoring results, the timing of the spill and when it was isolated and controlled and a root cause analysis report. There were no reports of any elevated readings having been detected by the company overnight.</p> <p>Other agencies involved (if known): No other agencies. Updates expected: No further updates.</p>	previous incident	
Mar 6	5:51 pm	Imperial	MOECC (SAC) Information Email>>>	<p>Update Information E-mail for Aamijwnaang First Nation Imperial Oil - Detection of Volatile Organic Compounds and Benzene During Air Monitoring</p> <p>MOECC Reference Number: 1804-AUWNLB</p> <p>Date and Time that the incident occurred: Jan 11/18 9:45 am by MOECC staff</p> <p>Date and Time reported to the MOECC: Jan 11/18 @ 12:33 pm by Imperial Oil</p> <p>Company name (if known) and location of incident:</p>	SDS Provided from Previous Incident	FB	

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					<p>Imperial Oil - Christina Street S, Sarnia</p> <p>What has occurred?</p> <p>This update is for an event that happened on January 11, 2018. Ministry staff were inspecting the industrial area to monitor for odours. Ministry staff detected an odour near the Imperial Oil site and conducted air quality monitoring near an intersection. The air monitor detected Volatile Organic Compounds (VOCs). Imperial Oil was notified and informed the ministry that they had identified the source. It was associated with liquid that had collected in a cement basin, from an unknown source, located on their property and near their fence line on Clifford St. Winds were from the south, southwest on January 11, 2018 and switched to north, northwest between 4:00 am and to 5:00 am on January 12, 2018.</p> <p>What action is being taken?</p> <p>Ministry staff followed up with Imperial Oil and required them to look into the cause of the VOC readings. The company responded and notified the ministry when they detected benzene. The company set up air monitors downwind of the cement basin and used a vacuum truck to remove the liquid. The ministry contacted Aamjiwnaang First Nation, Michigan State Police, Michigan Department of Environmental Quality on January 11, 2018. The company continued to monitor air quality and attempted to locate the source of the liquid. Ministry staff followed up with the company and inspected the area on January 12, 2018 for an update on their assessment and air monitoring. Ministry staff confirmed there were no odours during the inspection of the area and near the basin. There had also been no odour complaints received by either the company or the ministry.</p> <p>The company continued to look for potential sources, monitored air quality downwind and off site, and added firefighting foam to the basin to minimize emissions to air. On January 17, 2018 the company advised that they had identified the source as being a slow leak from a pipeline. The company stopped the leak and continued to apply foam to the basin to minimize emissions. The company provided regular updates to the ministry on their plans to address the leak and provided air monitoring results.</p> <p>By January 22, 2018, the company had completed draining the pipeline associated with the leak so that future repairs could be undertaken.</p> <p>Air monitoring results provided to the ministry by the company from January 11, 2018 to January 22, 2018 indicated that emissions of volatile organic compounds detected close to the basin ranged from non-detect to 10 ppm, with some readings at 25 to 30 ppm. Readings of benzene were at 1 ppm at the fence line and non-detect at approximately 6 metres from the fence line.</p> <p>Ministry staff will continue to gather information from the company on the root cause of the leak and corrective actions.</p> <p>Other agencies involved (if known): No other agencies.</p> <p>Updates expected: No further updates.</p>		
Mar 7	9:00 am	2:42 pm	Plains Midstream	CVECO Information	<p>INFORMATION ONLY FOR PLAINS MIDSTREAM AT 1182 PLANK ROAD SARNIA. SIMULATED ON SITE EMERGENCY RESPONSE EXERCISE WITH A SIMULTAED CODE 8 TO FOLLOW. ALARMS WILL BE SOUNDED AND DRILL IS EXPECTED TO LAST APPROXIMATELY TWO HOURS FROM 9AM TO 11AM</p> <p>Update 11:21am - UPDATE- SIMULATED CODE 8 STARTED AT 09:42AM THIS MORNING. STILL ONGOING.</p>		ANS

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Mar 7	2:47 pm		Suncor	CVECO Information	INFORMATION ONLY FOR SUNCOR AT 1900 SAINT CLAIR PARKWAY. NOTIFICATION THAT ALTERNATE FLARE PILOT LIGHTS HAVE BEEN LIT.		
Mar 8	6:05 am		Unknown	MOECC Initial Information Email>>>	<p>Initial Information E-mail for Aamjiwnaang First Nation - Odour Complaint in Vicinity of Tashmoo Rd. and Churchill Line MOECC Reference Number: 5448-AUXLJR Date and Time Incident Occurred: Jan 12, 2018 @ 8:54 am Date and Time Reported to MOECC: Jan 12, 2018 @ 8:54 am Company Name: Odour complaint at the corner of Tashmoo Rd. and Churchill Line What has Occurred? This update is for an odour complaint on January 12, 2018. The ministry's Sarnia District office received an odour complaint in the vicinity of Tashmoo Rd. and Churchill Line. The individual reported that the odour was strong and that they had trouble breathing while driving through the area. The odour could not be confirmed in the area of Tashmoo and Churchill by ministry staff during the inspection, however, staff had detected odours further west at Churchill and Vidal St. S. The wind direction was from the north at 30 km per hour. What action is being taken? Ministry staff initially contacted two companies in the area to determine if any operational issues had occurred as they were located upwind of the complaint location. Cabot Canada advised that they did shut down around 5:00 am on January 12, 2018 and then began start-up operations at 8:03 am. The start-up was stopped at approximately 8:06 am. Arlanxeo reported equipment issues with venting steam containing some hydrocarbons. The company had conducted air monitoring close to the equipment and downwind along their fence line. The results were less than 0.1 ppm detected for volatile organic compounds (VOC's) and confirmed there were no odours associated with the issue. Ministry staff checked the area for odours and conducted air monitoring for VOC's and Sulphur Dioxide from 10:30 am to 11:00 am along Churchill Line and Tashmoo Road. There was no detection of these compounds. Ministry staff did detect sulphur and mercaptan odours downwind of Imperial Oil during the inspection. Ministry staff were aware that Imperial Oil had reported an incident to the ministry at approximately 8:44 am on January 12, 2018 involving a heavy hydrocarbon spill from a pipeline within their site (See MOECC Reference Number 6624-AUXJ56). Ministry staff responded to that spill at approximately 11:50 am. Ministry staff could detect a slight odour at the spill site but could not confirm that the odour being detected was related to the spilled material. Imperial Oil conducted air quality monitoring in the area of the spill for hydrogen sulphide and benzene and found no detection of these compounds. Ministry staff contacted the resident at approximately 1:00 pm on January 12, 2018 to provide an update on the results of the inspection and air monitoring. Other agencies involved (if known): No other agencies. Updates Expected: No further updates expected.</p>		FB
Mar 8	6:06 am		Unknown	MOECC Initial Information Email>>>	<p>Initial Information E-mail For Aamjiwnaang First Nation – Oily Sheen on St. Clair River MOECC Reference Number: 0316-AV9NVX Date and Time that the incident occurred: Unknown Date and Time reported to the MOECC: Jan 22/18 @12:48 pm Company name (if known) and location of incident: St. Clair River in the vicinity of Suncor</p>		FB

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					<p>What has occurred? The Canadian Coast Guard (CCG) called the ministry's Spills Action Centre to report an oily sheen on the St. Clair River near the Suncor dock, located south of Sarnia. The sheen was reported to be visible on the surface of the water, extending from the Canadian side to the U.S. side, and about 1 km long.</p> <p>What action is being taken? The Canadian Coast Guard notified the U.S. Coast Guard and the Spills Action Center initiated downstream water users, including the Walpole Island First Nation and Wallaceburg water treatment plants, the Lambton Area Water Supply, private users along the river, Chatham-Kent Health Unit, Aamjiwnaang First Nation, Michigan State Police, Lambton Public Health Unit, St. Clair Township, Michigan DEQ, Health Canada, Environment and Climate Change Canada and City of Sarnia Police.</p> <p>Ministry staff contacted area companies to check their operations and effluent discharge outfalls to look for sheens or operational issues. The Eastern Canada Response Corporation (ECRC) was contacted to make an assessment of the sheen and possible clean-up. The ECRC determined the sheen was of a light material such that attempting to contain and remove the material was not practicable.</p> <p>Ministry staff checked along the St. Clair River from 1:30 pm to 4:00 pm on January 22, 2018 to attempt to determine a source of the sheen and assess any impacts to fish or wildlife. Ministry staff were able to confirm the presence of a sheen on the river. There was no odour associated with the sheen and no observable impacts.</p> <p>Ministry staff checked effluent discharge points at several company locations along the river and no sheen was observed. The Canadian Coast Guard used a helicopter to attempt to find a source of the sheen. The source of the sheen could not be confirmed. Suncor checked their operations and confirmed that they were not experiencing any operational issues, and that there was no sheen being discharged from their site. The Canadian Coast Guard advised that they would resume monitoring the St. Clair River on the morning of January 23, 2018.</p> <p>The source of the sheen could not be confirmed.</p> <p>Other agencies involved (if known): Canadian Coast Guard and the Eastern Canada Response Corporation</p> <p>Updates expected: No further updates expected.</p>		
Mar 8	6:09 am	INEOS Styrolution	MOECC Update Information Email>>>	<p>Update Information E-mail for Aamjiwnaang First Nation - Spill of Hydrocarbon Containing Benzene at INEOS Styrolution MOECC Reference Number: 0201-AV7DTH Date and Time that the incident occurred: Jan 20, 2018 @ 4:30 am Date and Time reported to the MOECC: Jan 20, 2018 @ 4:59 am Company name (if known) and location of incident: INEOS Styrolution, located at 872 Tashmoo Ave, Sarnia.</p> <p>What has occurred? This update is for a spill that happened on January 20, 2018. INEOS Styrolution called the ministry's Spills Action Centre to report a spill of approximately 14 to 23 litres of hydrocarbon containing benzene. The material had leaked from a unit to a cement pad and was contained on the company's site. The winds were from the southwest at the time of the spill.</p> <p>What action is being taken? The company first reported the material had moved into their sewer system. Later the company reported the material had</p>	SDS provided from previous incident	FB	

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					<p>solidified and did not enter their sewer system. The ministry dispatched the ministry's Environmental Response person (ERP) to inspect the area and gather additional details of the spill. The company conducted fence line monitoring for volatile organic compounds (VOC's) at the start of the spill and then retained a third party consultant to conduct community air monitoring that included benzene.</p> <p>Ministry staff inspected the area for odours at approximately 7:05 am and again at 8:10 am. No odours were detected downwind of the facility. Ministry staff met with the company to gather additional details of the spill and assess the progress of the clean-up. The company reported that there was no detection of VOC's at their fence line. Ministry staff requested that the company report any readings of benzene, detected through the third party community monitoring, to the Ministry's Spills Action Centre.</p> <p>The results of the third party monitoring showed low levels of benzene (1.7 ppb) detected downwind of the company, with upwind samples detecting benzene levels at 1.4 ppb. The company reported to the ministry at 1:55 pm that the clean-up of the spill was complete and that benzene was no longer being detected downwind of the company's site.</p> <p>Ministry staff requested that the company provide a root cause analysis report to the ministry, including corrective actions to address the leak, as well as all air monitoring data, and additional information on the material spilled.</p> <p>Other agencies involved (if known): No other agencies. Updates expected: No further updates.</p>		
Mar 9	12:10 pm	Unknown	MOECC Initial Information Email>>>	<p>Initial Information E-mail for Aamjiwnaang First Nation – Odour Complaint in the area of Vidal St. and Kenny St. MOECC Reference Number: 7485-AVHQRT Date and Time that the incident occurred: January 30, 2018 at 9:10 am Date and Time reported to the MOECC: January 30, 2018 at 9:30 am Company name (if known) and location of incident: In the vicinity of Vidal St. South and Kenny St., Sarnia What has occurred? This information e-mail is for an odour complaint on January 30, 2018. A resident called the ministry's Sarnia District Office to report a rotten egg type of odour while driving along Vidal St. South. The wind was from the northwest at the time. What action is being taken? Ministry staff inspected the area at approximately 10:30 am on January 30, 2018. Ministry staff conducted air quality monitoring in the area for hydrogen sulphide. The monitor detected a low level of hydrogen sulphide (0.02 ppm). Ministry staff could also detect a slight odour. The odour threshold for hydrogen sulphide ranges from 0.01 to 1.5 ppm when it can first begin to be noticed. Ministry staff contacted Imperial Oil and requested that they assess their facility for any potential operational issues or upsets that could be causing the odorous emissions. Imperial Oil reported no operational issues and conducted air monitoring on Vidal St. Although the company did not detect any contaminants or identify any odours as a result of their assessment, as a precaution, the company transferred the contents of one of their on-site storage tanks to another storage tank to reduce the potential for any odorous emissions.</p> <p>Other agencies involved (if known): No other agencies. Updates expected: No further updates</p>	SDS provided from previous incident	FB	

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Mar 15	9:16 am		Shell Canada	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 1127-AWVH8W Date/Time Incident Occurred: 2018/03/15 - 9:00 Date/Time Incident Reported to MOECC: 2018/03/15 – 8:58 Company name (if known): Shell Location of Incident: 150 St. Clair Parkway, Corunna Company description of incident and actual/expected duration: boiler startup – duration unknown Company description of actual/expected adverse effect: potential for elevated noise Actions being taken by the facility to respond: n/a Agencies/Parties responding: n/a</p>		
Mar 15	9:38 am		Shell Canada	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 2268-AWVHUL Date/Time Incident Occurred: 2018/03/15 – 13:00 Date/Time Incident Reported to MOECC: 2018/03/15 – 9:29 Company name (if known): Shell Location of Incident: 150 St. Clair Parkway, Corunna Company description of incident and actual/expected duration: boiler #6 shutdown – duration unknown Company description of actual/expected adverse effect: potential for elevated noise Actions being taken by the facility to respond: n/a Agencies/Parties responding: n/a</p>		
Mar 15	9:50 am		Imperial	CVECO Information	Imperial Oil advising ambulance attended for medical in trailer city		ANS
Mar 15	10:05 am	11:43 am	Suncor ?	CVECO Information	Code 8 was issued for information for unit upset plant two with high flaring and steam		ANS
Mar 15	10:05 am		Imperial	Email	For awareness, an ambulance was dispatched to Imperial's Sarnia site today at approximately 9:30 a.m.. This was in response to an individual requiring medical assistance. This was not related to an operational matter. Imperial's fire trucks also responded as a precaution, and a CVECO Information Notice was issued. If you have questions, please feel free to contact me. Kristina Zimmer		
Mar 15	10:13 am		Suncor	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 1672-AWVJ8T Date/Time Incident Occurred: March 15 09:40h Date/Time Incident Reported to MOECC: March 15 09:50h Company name (if known): Suncor Location of Incident: 1900 River Road Company description of incident and actual/expected duration: Process upset Company description of actual/expected adverse effect: visible flaring Actions being taken by the facility to respond: ongoing assessment Agencies/Parties responding: None</p>		
Mar 15	10:16 am	11:43 am	Suncor	CVECO Code 8	Code 8 was issued for Suncor for information of unit upset in plant 2 high flaring and steam		ANS
Mar 15	10:36 am		Suncor	Email	At approximately 9:37 am, the Suncor Sarnia refinery experienced a leak of boiler feed water in one of its unit heaters which resulted in the site sirens being sounded. Employees were mustered on site as a safety precaution. Everyone is safe and accounted for. There are no hazardous materials involved and the affected unit is being safely shut down to address the issue. We have provided notification to the Ministry of the Environment and Climate Change, Aamjiwnaang First Nation and the community via the CAER Industry Update Line. We will continue to provide updated information as it becomes available. Jennifer Johnson		

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Mar 15	11:31 am		Suncor	Email	<p>Further to my earlier update, we have now sounded the all clear on site: Earlier this morning the Suncor Sarnia refinery experienced a water leak in one of our unit heaters which resulted in the site sirens being sounded. Employees were mustered on site as a safety precaution. Everyone is safe and accounted for. There are no hazardous materials involved. We have provided notification to the Ministry of the Environment and Climate Change and the community via the CAER Industry Update Line. Community members may notice periods of visible flaring and an increase in steam as work is carried out to address the issue, however, the all clear at the Refinery has been sounded. Please let me know if you have any questions. Jennifer Johnson</p>		
Mar 15	11:45 am		Suncor	CVECO Information	Suncor at 1900 Saint Clair Parkway issuing an information for unit upset.		ANS
Mar 15	11:57 am		Suncor	CVECO Information Update	Suncor at 1900 Saint Clair Parkway updating information, high flaring, steam and noise may be noticed at this time only.		ANS
Mar 15	8:27 pm		Unknown	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 8358-AWW28H Date/Time Incident Occurred: 2018/03/15 @ 20:00 Date/Time Incident Reported to MOECC: 2018/03/15 @ 20:10 Company name (if known): Unknown Location of Incident: Unknown Company description of incident and actual/expected duration: N/A Company description of actual/expected adverse effect: N/A Actions being taken by the facility to respond: N/A Agencies/Parties responding: MOECC Sarnia ERP</p>		
Mar 16	12:04 am		Suncor	Email	<p>The Suncor Sarnia refinery is continuing its re-start procedures following the process upset earlier today (Thursday, March 15) During this time, increased odours may be present. We apologize for this inconvenience and are working to restore normal operation as quickly as possible. We continue to work with the Ministry of Environment and Climate Change and have deployed third party air monitoring in the Aamjiwnaang community. We will continue to update the MOECC on our progress, and will provide updates as they become available. Please let me know if you have any questions, Jennifer Johnson</p>		
Mar 18	9:22	12:19 pm	Suncor	CVECO Information	SUNCOR SARNIA REFINERY AT 1900 SAINT CLAIR PARKWAY IS ISSUING AN INFORMATION ONLY FOR CO2 VENTING IN THE HYDROGEN UNIT. POSSIBILITY OF INCREASED NOISE IN THE AREA DURING THIS VENTING PROCESS.	SDS provided from previous incident	ANS
Mar 18	9:32 am		Suncor	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 1332-AWYHHJ Date/Time Incident Occurred: 03/18/18 – 09:00 Date/Time Incident Reported to MOECC: 03/18/18 – 09:12 Company name (if known): Suncor Location of Incident: 1900 River Rd. Sarnia Company description of incident and actual/expected duration: Venting CO2 and Steam Company description of actual/expected adverse effect: Elevated noise and visible steam Actions being taken by the facility to respond: Reported to MOECC Agencies/Parties responding: CVECO notification made</p>		

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Mar 18	2:22 pm		Shell Canada	CVECO Information	INFORMATION ISSUED FOR SHELL 150 SAINT CLAIR PARKWAY FOR STAR UP OF THE NUMBER 6 BOILER IN THE STEAM PLANT		
Mar 18	2:31 pm		Shell Canada	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 6363-AWYP88 Date/Time Incident Occurred: 2018/03/18 @ 14:00 Date/Time Incident Reported to MOECC: 2018/03/18 @ 14:00 Company name (if known): Shell Canada Products Location of Incident: 150 St. Clair Parkway Company description of incident and expected duration: Unit start-up process. Expected to be complete by 20:00 hours. Company description of actual/expected adverse effect: Elevated noise levels. Actions being taken by the facility to respond: N/A Agencies/Parties responding: None at this time.</p>		
Mar 20	7:37 am	10:25 am	Suncor	CVECO Information	Information at Suncor for venting c o2		
Mar 20	9:32 am		Suncor	Email	<p>Due to an interruption in service from a third-party provider, the Suncor Sarnia refinery will be venting steam mixed with low levels of carbon dioxide. During this time neighbours will notice an increase in noise. This activity has been communicated to the Ministry of the Environment and Climate Change and CVECO. Kelly A. McCaig EHS Training Specialist Suncor Energy - Sarnia Refinery 519-333-6987</p>	SDS provided from previous incident	
Mar 20	10:47 am		Suncor	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 1874-AX2F63 Date/Time Incident Occurred: Mar 20/18 @ 07:00 hrs. Date/Time Incident Reported to MOECC: Mar 20/18 07:12 hrs. Company name (if known): Suncor Location of Incident:1900 River Rd, Sarnia Company description of incident and actual/expected duration: Loss of power. Company description of actual/expected adverse effect: Venting of CO2 and steam. No odours expected. Actions being taken by the facility to respond: n/a Agencies/Parties responding: n/a</p>		
Mar 20	1:20 pm		Suncor	Email	<p>As a result of continued work following last week's incident at the Suncor Sarnia refinery community members may notice periods where an odour is present. The odour, which has a sour or "rotten egg" smell may be unpleasant at times, but no community action is required in response. We continue to conduct third-party air monitoring and are keeping the Ministry of the Environment and Climate Change (MOECC) updated on our progress with this work. We apologize for this inconvenience and want to assure community members that we are working to eliminate these periods of odour as quickly and safely as possible. We will continue to provide updates as they become available via the CAER Industry Update Line (1-855-472-7642). Please let me know if you have any questions, Jennifer Johnson</p>		FB
Mar 21	9:01 am		Suncor	MOECC Update Information Email>>>	<p>Update Information E-mail for Aamjiwnaang First Nation – Odour Complaints and Suncor Tank Emissions MOECC Reference Numbers: 8358-AWW28H, 6453-AWW32D, 7028-AWW3F3,7482-AWW3P8, 3210-AWW3RB, 3844-AWW4AY,2467-AWW4MM, 8515-AWW4ZS, 4561-AWW59U Date and Time that the incident occurred: March 15, 2018 at 8:00 pm</p>	SDS Included with report	FB

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					<p>Date and Time reported to the MOECC: March 15, 2018 at 8:10 pm, 8:30 pm, 8:51pm, 9:12 pm, 9:25 pm, 9:28 pm, 9:36 pm, 9:45, 10:13 pm, 10:33 pm, 10:46 pm</p> <p>Company name (if known) and location of incident: Suncor Refinery, Sarnia</p> <p>What has occurred? This update is for 11 odour complaints received by the ministry on March 15, 2018. All residents called the ministry's Spills Action Centre to report a strong rotten egg odour, with some individuals reporting headaches, difficulty breathing, burning eyes, and nausea. The wind was from the northwest at the time of the calls.</p> <p>What action is being taken? Ministry staff checked air monitoring station data on the Clean Air Sarnia and Area (CASA) website for the period from 5:00 pm on March 15, 2018 to 7:00 am on March 16, 2018. An increase in levels of Total Reduced Sulphur (as hydrogen sulphide) were detected at the Aamjiwnaang First Nation air monitoring station, which reached the Ambient Air Quality Criteria of 4.8 parts per billion (ppb) between 11:00 pm and 12:00 am on March 15, 2018. Most people are able to detect hydrogen sulphide odours at 1.8 ppb, which is the odour threshold. The levels began to decline between 12:00 am on March 16, 2018 up to 7:00 am, at which time the reading was at 0.4 ppb.</p> <p>The ministry's Spills Action Centre dispatched the ministry's Environmental Response Person and ministry staff inspected the area from 9:10 pm on March 15, 2018 to 12:00 am on March 16, 2018. Ministry staff observed hydrogen sulphide odours in the area and conducted air monitoring using handheld equipment at approximately 9:30 pm. The air monitoring showed no detection of hydrogen sulphide south of the Suncor facility and then detected 40 ppb of hydrogen sulphide downwind of Suncor, at a location near the Aamjiwnaang Health Centre and the air monitoring station. This detection using the handheld monitoring device aligned with the total reduced sulphur readings being detected at the Aamjiwnaang air monitoring station at the time.</p> <p>Ministry staff confirmed that the Suncor refinery was the source of the odours and inspected the Suncor site to gather information on the cause of the odours. Ministry staff confirmed that Suncor had shut down a unit, which required sour naphtha to be transferred into a storage tank. This transfer was causing the odours due to the tank venting emissions. Suncor used a second tank to address the odours while attempting to restart a unit to treat the sour naphtha. The transfer of sour naphtha to the second tank was not successful in eliminating the odours.</p> <p>Ministry staff required Suncor to conduct air quality monitoring around their site and beyond their fenceline, which began at approximately 12:00 am on March 16, 2018. Sampling results provided to the ministry showed detection of total reduced sulphur and volatile organic compounds downwind of Suncor and in the vicinity of the storage tanks. The company was to continue to monitor air quality while they attempted to restart a unit to treat the material.</p> <p>Ministry staff conducted a follow-up site inspection at approximately 8:40 am on March 16, 2018 and checked for odours. Ministry staff confirmed slight odours of total reduced sulphur at approximately 8:50 am along LaSalle Line. A second inspection for odours was conducted downwind of the Suncor tanks with stronger odours detected at approximately 9:00 am.</p>		
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					<p>The company informed ministry staff that the company was implementing a contingency plan to operate a mobile treatment unit in the event there were challenges encountered with restarting the unit normally used to treat the material. Ministry staff will continue to follow-up with the company on their progress and will reach out to the residents who called the ministry reporting odours and health symptoms. Any individuals that have concerns with respect to experiencing impacts during the event should contact either the ministry's Spills Action Centre at 1-866-MOE-TIPS or the ministry's Sarnia District Office at 519-336-4030 during regular business hours.</p> <p>Other agencies involved (if known): No other agencies. Updates expected: No further updates expected.</p>		
Mar 21	10:28 am	11:16 am	Ineos Styrolution	CVECO Code 8	<p>Code 8 was issued for Nova Styrolutions at 872 Tashmoo. Water and Hydrocarbon leak on site. CORRECTION: It is Ineos Nova that has the code 8 not Nova Styrolutions.</p>		ANS
Mar 21	11:13 am		INEOS Styrolution	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 2104-AX3JSU Date/Time Incident Occurred: 2018/03/21 – 9:45 Date/Time Incident Reported to MOECC: 2018/03/21 – 10:18 Company name (if known): Styrolution Canada Ltd. Location of Incident: 872 Tashmoo Ave, Sarnia Company description of incident and actual/expected duration: 5gal process water to tank containment dyke – duration immediate Company description of actual/expected adverse effect: no off-site impacts Actions being taken by the facility to respond: cleanup to be done by their personnel and retained contractor Agencies/Parties responding: personnel and contractor</p>		FB
Mar 21	11:25 am		Ineos Styrolution	Email from M. Mckay	<p>This email is to inform you that INEOS Styrolution called a Code 8 and notified the Spills Action Center of a small water and hydrocarbon incident. The material was immediately contained, fence-line air monitoring has been conducted. Clean up is under way. The CVECO all clear was issued at 11:17. No community action is required. Michelle Environmental Technologist INEOS Styrolution Canada Ltd. 872 Tashmoo Ave. PO Box 3078 Sarnia, Ontario N7T 8A3</p>		
Mar 23	4:27 am		Shell Canada	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 3863-AX5BPT Date/Time Incident Occurred: 2018/03/23 - 08:00 Date/Time Incident Reported to MOECC: 2018/03/23 – 04:15 Company name (if known): Shell Canada Products Location of Incident: 150 St. Clair Parkway Company description of incident and expected duration: Unit start-up process. Company description of actual/expected adverse effect: Possible elevated noise levels. Actions being taken by the facility to respond: N/A Agencies/Parties responding: None at this time.</p>		
Mar 26	7:54 pm	7:59 pm	Shell Canada	CVECO Information	<p>XJF737 Shell Canada at 150 Saint Clair Parkway, issued an information for small grass fires along the CSX rail line, just outside of Shell Property, at 1830 hours.</p>		
Mar 26	11:58 pm	4:56 am Mar 27	Arlanxeo	CVECO Information	<p>Information issued at XJF740 Arlanxeo, at 500 Kenny Street. Unit upset in the Butyl Unit with potential for high flaring.</p>		

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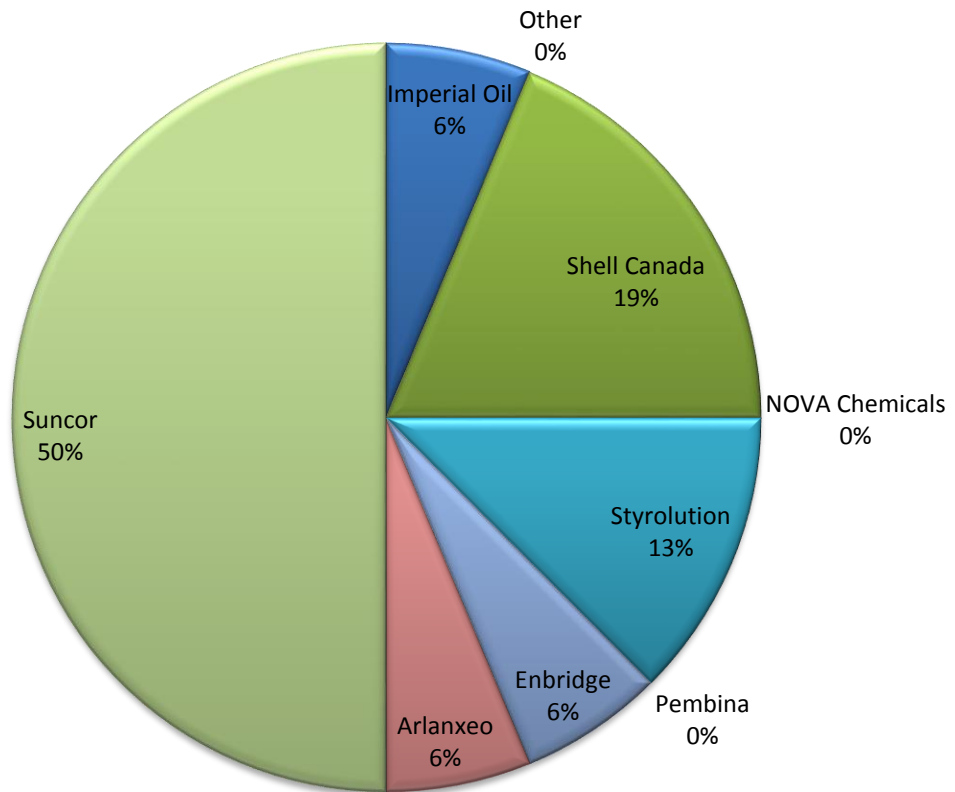
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Mar 27	8:33 am		Enbridge Pipelines	CVECO Information	ENBRIDGE PIPELINES AT 1010 PLANK ROAD WILL BE COMPLETING ROUTINE MAINTENANCE AT THEIR FACILITY. ODORS OF PETROLEUM MAY BE NOTICED OVER THE NEXT 48 HOURS WHILE WORK IS COMPLETED.		
Mar 27	7:52 pm	2:07 pm Mar 31	Shell Canada	CVECO Information	INFORMATION FOR SHELL, HIGH FLAREING DUE TO SHUT DOWN WATER STRIPPER.		
Mar 27	7:54 pm		Shell Canada	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 4073-AX9VKS Date/Time Incident Occurred: begins at 20:30 03/27/2018 Date/Time Incident Reported to MOECC: 19:30 03/27/2018 Company name (if known): Shell Canada Location of Incident: 150 St. Clair Parkway, Corunna Company description of incident and actual/expected duration: potential for flaring due to maintenance. Company description of actual/expected adverse effect: potential flaring and minimal noise. Actions being taken by the facility to respond: N/A Agencies/Parties responding: N/A</p>		
Mar 28	11:16 am		Suncor	CVECO Information	Suncor at 1900 Saint Clair Parkway issuing an information for fire training at their location and expected to be completed by 16:00.		
Mar 29	10:46 am		NOVA Chemicals	MOECC (SAC) Information Email>>>	<p>MOECC Reference Number: 3462-AXBJV9 Date/Time Incident Occurred: March 29 09:55, duration 99seconds. Date/Time Incident Reported to MOECC: March 29, 10:22 Company name (if known): NOVA Chemicals Location of Incident: 510 Moore Line, St. Clair Company description of incident and actual/expected duration: Ethylene release, event complete, 99 second duration. Company description of actual/expected adverse effect: None expected. Actions being taken by the facility to respond: n/a Agencies/Parties responding: n/a</p>	SDS included with report	
Mar 29	10:11 am	10:15 am	Plains Midstream	CVECO Information	Plains Midstream issued an information for increased flaring due to unit start up		
Mar 30	11:54 am		Suncor	CVECO Information	Information for Suncor XJF738 at 1900 Saint Clair Parkway, due to scheduled maintenance of the fuel gas recovery unit. It will be shut down for the duration of the turnaround.		

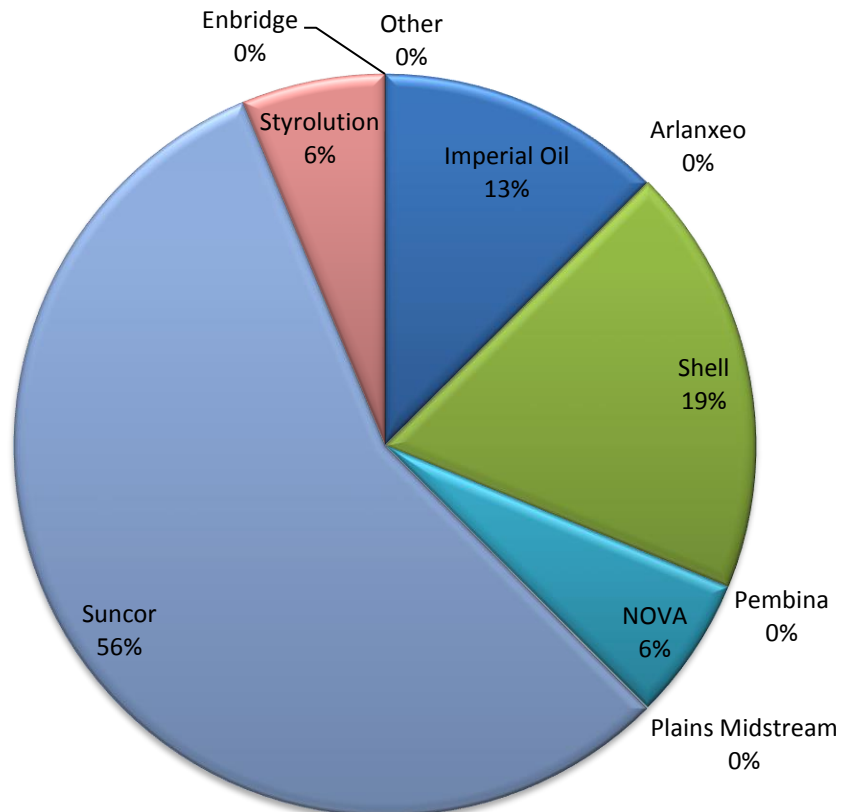
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Incident Notifications for the Month of March 2018

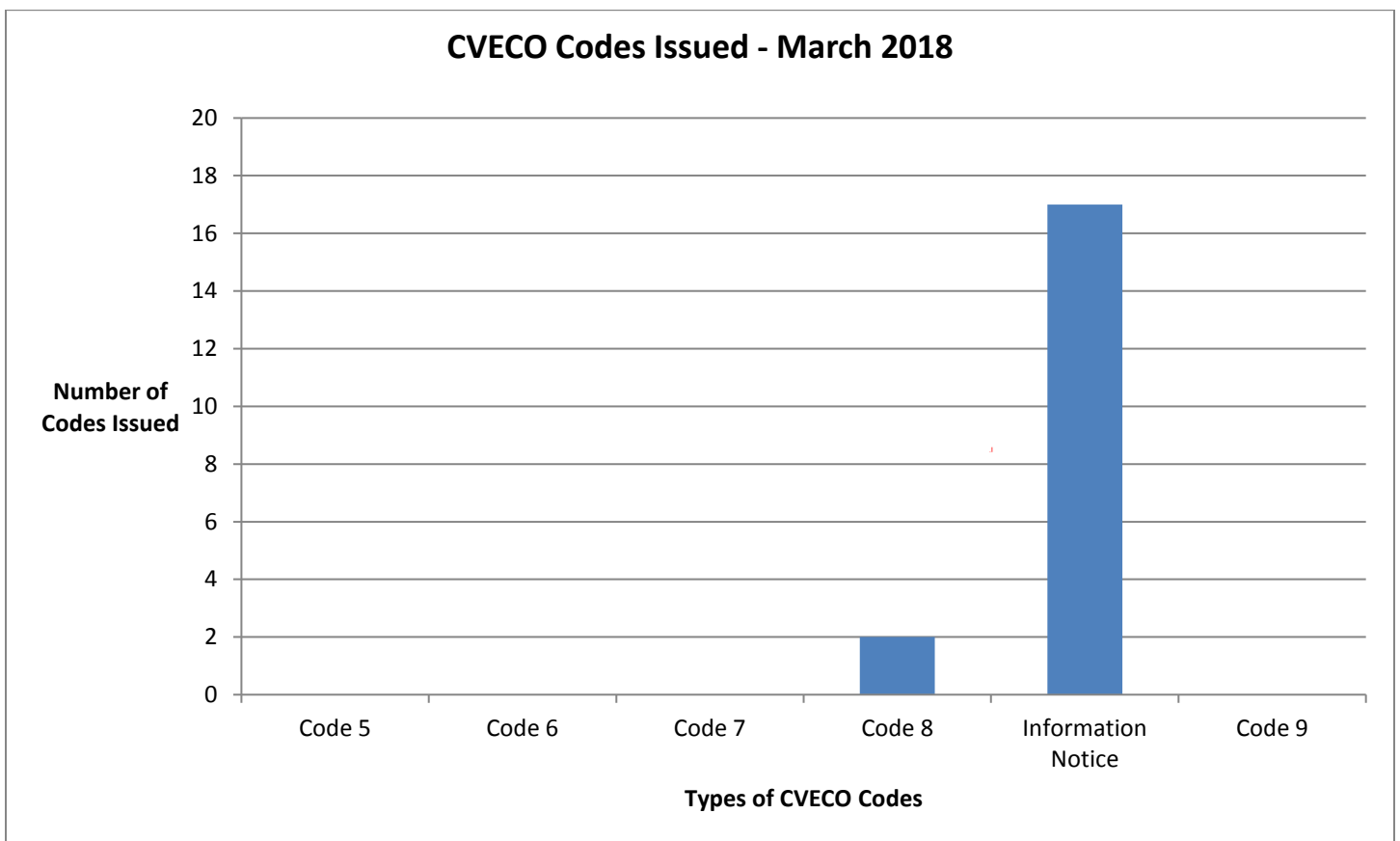


Proactive Notifications for the Month of March 2018



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CVECO Assistance Codes:

CODE 5- Incident outside of industry potentially requiring CVECO assistance.

CODE 6- Full traffic control requested in designated areas.

CODE 7- Bomb threat.

CODE 8- Notification by a CVECO member of an internal emergency occurrence. CVECO will take no action under this code.

Information Notice - Advice by a member of a non-emergency activity that may cause an inquiry.

CODE 9- Request for response by Municipal Fire Department. (Includes **Code 91** and **Code 92**-Specific Fire Equipment)