

MARYLAND DEPARTMENT OF THE ENVIRONMENT

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ENVIRONMENTAL INVESTIGATION Mountain Road Chevron (a.k.a Former Genie Oil Company) 4731 Mountain Road Pasadena, Anne Arundel County, Maryland Case No. 1992-0468AA1

The Maryland Department of the Environment (MDE) continues to evaluate petroleum impacts at the Mountain Road Chevron facility located in Anne Arundel County. This facility has had a history of operational compliance issues related to the underground storage tank (UST) systems and tank truck loading rack area since the mid-1990s. This case was opened in August 1993, upon the Department receiving an anonymous complaint of oil odors in the drinking water well serving the facility. Since that time there has been a total of nine (9) enforcement action issued against the Genie Co. Inc and Island Petroleum Corporation: *Notice of Violation (NV 94-015)* issued 08/26/93, *Complaint and Order –COV 94-011* executed 02/18/94; *Notice of Violation NV 95-028* issued 10/03/94; *Notice of Violation NV 95-131* issued 01/03/96; *Notice of Violation NV 95-131* issued 05/30/95; *Complaint, Order and Civil Penalty – COV 94-011* executed 01/24/95; *Complaint, Order and Civil Penalty – COV 96-001* executed 09/14/95; *Notice of Violation NV 2003-070* issued 03/14/03; and *Notice of Violation NV 2008-001* issued 07/03/07.

On October 14, 1941, Martin R.F. Lampe and Ida E. Lampe sold the property to Frederick and Irene Herbe. On February 2, 1982, Robert G. Calvert and Charles Frederick Allen underwrote a fifteen (15) year mortgage for the property owners Frederick and Irene Herbe. On April 9, 1982, Frederick and Irene Herbe sold the property to Elmer F. and Anna Marie Daubert as tenants in common. The property subsequently went into foreclosure. The property was sold at a public auction on September 30, 1988 to Genie & Company Inc. (Robert G. Calvert & Jeanne Marie Calvert). On June 10, 1999, the property was purchased by Island Petroleum Corporation (Jeanne M. Calvert).

According to the Department's tank registration records, on March 18, 1986, Robal Enterprises (Robert Calvert) registered five (5) steel underground storage tank systems (USTs) with galvanized steel piping [a diesel, and four (4) gasoline tanks]. These underground tanks were installed in the 1970s to mid-1980s.

On April 2, 1992, Genie & Co. Inc. registered five (5) USTs (three 5,000-gallon gasoline an 8,000- gallon kerosene and a 10,000 –gallon diesel tank). In 1994, the Department was made aware that the kerosene tank was converted to a gasoline tank. These underground tanks were installed in August 1989. They comprised composite steel and fiberglass reinforced plastic with single walled flexible plastic piping.

On June 25, 2003, Island Petroleum leased the facility to Petroleum Marketing Group. Currently the facility operates five (5) USTs comprising composite steel and fiberglass reinforced plastic with single walled flexible plastic piping. The tanks slightly differ in the types of product now being stored to include; two 5,000-gallon diesel, a 5,000 gallon kerosene, and 8,000 and 10,000 –gallon gasoline tank. The UST systems have Stage I and Stage II vapor recovery systems. Three monitoring wells and a transient non-community drinking water supply well are currently located on-site.

In August 2007, the MDE-OCP began sampling select off-site private drinking water wells. At this time, the MDE-OCP does not anticipate expanding the off-site residential sampling effort beyond sampling needed to ensure community safety.

Chronology:

- August 27, 1993. MDE responded to an anonymous complaint of oil odors in the drinking water well serving the facility.
 - Drinking water from the tap in the men's room was checked. Strong odors detected were oily in smell but did not smell like gasoline. .
 - The 550 steel heating oil tank has no leak detection or precision testing
 - Two 550-gallon steel kerosene and waste oil tanks are out of service and required properly abandoned within 30 days.
 - Two (2) supply wells located within 50ft of the improperly abandoned tanks.
 - The 1,000-gallon diesel tank and 8,000-gallon tank comprising buffhide material were installed in 1984.
 - Three (3) 5,000-gallon buffhide tanks installed in August 1989.

- October 11, 1993. MDE-OCP received sampling results from the on-site drinking water supply well collected by AACHD.
 - Sampling event 08/29/93
 - PW (on-site supply well) Benzene – 245 ppb; ethylbenzene – 346 ppb; toluene - 207ppb; xylene– 1421 ppb; naphthalene – 22 ppb;

- March 27, 1992. MDE-OCP issued a Site Complaint –SC-OV UST086 to Genie & Co. Inc.
 - Cease and desist delivery and distribution of petroleum products until an Oil Operations Permit is obtained and all truck drivers are certified.
 - Properly abandon all out of service USTs
 - Submit a copy of the tank registration form for the UST systems.
 - Conduct a Subsurface Site Investigation.

- June 18, 1993. MDE-OCP site visit to verify the presence of improperly abandoned USTs on-site.
 - Mr. Calvert informed MDE that the USTs had been removed but could not provide any documentation.

- July 2, 1993. Contractor notified MDE-OCP that Genie Co. & Inc. proposed to bid out for removal of UST systems at the facility.

- August 11, 1993. MDE-OCP compliance inspection. Several violations were cited, thus the Dept required the following:
 - Shut-down the kerosene and diesel USTs until pressure drop line leak detectors are installed.
 - Excavate and replace the PVC vent pipes.
 - Diesel sump had approximately 0.5 inches of LPH in the manhole. Remove all product from the diesel manhole and any open containers .
 - Locate or install two monitoring pipes in opposing corners of the kerosene and diesel tank field.
 - Submit all precision tests records for the UST systems
 - Properly demarcate all fill pipes and indicate size of tanks and type of product stored for each.

- August 26, 1993. MDE-OCP issued *Notice of Violation (NV 94-015)* to Genie & Co. inc. (Robert Calvert & Jeanne Marie Calvert) based on violations observed during the 08/27/91, 03/27/92, 06/18/93 and 08/11/93 site visits by MDE-OCP inspector
 - Strong petroleum odors detected in the on-site drinking water supply well. Supply well impacted by petroleum contamination. Sample collected 08/28/91 (*See Sampling Table*)
 - Two (2) USTs observed to be out of service were required to be properly abandoned.
 - Tanks removed without proper notification to the Dept.
 - The active 550-gallon heating oil tank must be precision tested.
 - Facility must obtain an Oil Operations Permit for the operation of the truck tank by Genie & Co. Inc.
 - Based on the aforementioned violation the Dept. required the following tasks to be completed
 - Install and sample a minimum of three (3) groundwater-monitoring wells .
 - Complete a hydrogeologic study to define the total extent of subsurface petroleum contamination.
 - Submit all precision test records for review.

- Obtain a valid Oil Operation Permits for all operators of truck tank and oil vehicle operators.
 - Replace all PVC piping on the kerosene and diesel storage systems with prior notification to the Dept.
 - Submit documentation for the installation of six (6) UST systems on-site.
 - Properly mark all fill pipes and indicate the size and product for each tank.
 - Submit an amended registration form for the UST systems to the MDE.
- October 5, 1993. MDE-OCP compliance inspection. Several violations cited, thus the Dept required the following;
 - Cease dispensing diesel from the diesel UST since it has no leak detector.
 - Evidence of ‘large’ amounts of contamination around the fill required the installation of overfill protection on the diesel tank.
 - Comply with the 08/26/93 *Notice of Violation (NV 94-015)*
 - Notify the Department prior to conducting any excavation activities around the tanks and piping.
 - October 15, 1993. MDE-OCP site visit to sample the station’s on-site supply well.
 - October 26, 1993. MDE-OCP follow-up compliance inspection.
 - Leak detector has been installed but drop tubes have not been installed.
 - Mr. Calvert informed us that the dropt tubes would be installed 10/28/93
 - PVC vent lines have not been replaced.
 - The required monitoring wells in accordance with the NV 94-015 have not yet been installed.
 - November 5, 1993. MDE-OCP received sampling results from the on-site drinking water supply well collected by AACHD. Letter to Genie Co. Inc. dated 11/01/93 from AACHD indicating that the drinking water was unfit for human consumption.
 - Sampling event 10/08/93
 - PW (on-site supply well) Benzene – 33 ppb; ethylbenzene – 43 ppb; toluene - 26 ppb; xylene– 97 ppb; naphthalene – 16 ppb;
 - November 18, 1993. MDE-OCP received notification of release of heating oil. Quantity unknown. No documentation included of subsequent cleanup activities.
 - February 22, 1994. *Complaint and Order –COV 94-011* filed by MDE against Genie & Co. Inc. (Jean Marie Calvert) and executed 02/18/94. Violations based on the violations observed during the 08/27/91, 03/27/92, 06/18/93 and 08/11/93 site visits by MDE-OCP inspector.
 - Install and sample a minimum of three (3) groundwater-monitoring wells .
 - Complete a hydrogeologic study to define the total extent of subsurface petroleum contamination.
 - Submit all precision test records for review.
 - Obtain a valid Oil Operation Permits for all operators of truck tank and oil vehicle operators.
 - Replace all PVC piping on the kerosene and diesel storage systems with prior notification to the Dept.
 - Submit documentation for the installation of six (6) UST systems on-site.
 - Properly mark all fill pipes and indicate the size and product for each tank.
 - Submit an amended registration form for the UST systems to the MDE.
 - July 5, 1994. MDE-OCP received sampling results from the on-site drinking water supply well.
 - Sampling event 10/15/93
 - PW (on-site supply well) Benzene – 19.4 ppb; ethylbenzene – 77.6 ppb; toluene 34.8 ppb; xylene – 421.8 ppb; naphthalene – 35.5 ppb;
 - July 5, 1994. MDE-OCP received sampling results from the on-site drinking water supply well.
 - Sampling event 06/20/94
 - PW (on-site supply well) Benzene 9.8 ppb; MTBE – 6.3 ppb; ethylbenzene – 57 ppb; xylene – 337 ppb; TPH-GRO – 1000ppb

- July 5, 1994. MDE-OCP telephone conversation advising of recent sampling of the on-site drinking water supply well. Enquired about the following activities;
 - Status of excavation activities for the PVC vent pipe in the area of the former waste oil and kerosene tanks which were removed without MDE-OCP's oversight;
 - Installation of three (3) monitoring wells.

- July 13, 1994. MDE-OCP site visit meeting with Mr. Calvert and contractor to observe the excavation of the PVC vent pipes in the area where two UST systems were removed without the oversight of MDE-OCP.
 - Excavation occurred in the former area of the waste oil and kerosene USTS.
 - Soils screened to 6 ft Petroleum odors, 208 units on the Photoionization detector
 - Soils screened to 12 ft . Petroleum odors, 197 units on the Photoionization detector
 - In an adjacent excavation soils screened to 8 ft 201 units on the Photoionization detector
 - Locations for the installation of 3 monitoring wells were demarcated.
 - Existing kerosene UST had been converted to gasoline
 - Gasoline product puddle in the fill pipe manway.
 - Kerosene sump dispenser still operating as kerosene.
 - Mr. Calvert indicated that the kerosene tank was converted to gasoline because the site runs out of gasoline on the weekends.
 - Advised that diesel and the converted gasoline USTs must be upgraded for spill and overfill protections.
 - All UST systems must be precision tested including the heating oil tank.

- July 20, 1994. Attorney representing Genie Oil Inc. requested a postponement in the COV 94-011 until a Consent Agreement could be negotiated.

- July 25 & 27, 1994. MDE-OCP site visit meeting with Mr. Calvert and contractor to observe the excavation of the PVC vent pipes and for upgrade of the UST storage systems.
 - Contractor could not provide proof of Tank Installer Certification.
 - The Dept. shut down all planned work activities for the day.
 - No definitive date could be provided for the installation of the requested three (3) monitoring wells.

- August 5, 1994. Contractor for Genie Inc. contacted MDE-OCP requesting clarification on the requirement to install three (3) groundwater-monitoring wells.

- August 15, 18 and 23, 1994. MDE-OCP follow-up compliance inspections instructed the following;
 - Remove all contaminated soils excavated during retrofitting of the tank systems.
 - Remove all damaged tanks or have the tanks recertified to install an impressed current for cathodic protection
 - Precision test all the USTs in both tank field areas.
 - The exposed UST systems must not be utilized to dispense diesel or gasoline product.

- August 25, 1994. MDE-OCP follow-up compliance inspection.

- September 1, 1994. MDE-OCP compliance assistance inspection, authorizing the concrete to be poured since the proper reinforcement was in place. Required the removal of oil-contaminated soils located near the piping used for fitting the trucks.

- September 12, 1994. MDE-OCP oversaw the removal of a 550-gallon heating oil steel tank. The Dept. required;
 - Proper disposal of all excavated contaminated soils.
 - Submit a copy of the receipt for contaminated soil and tank abandonment report.

- September 23, 1994. MDE-OCP site inspection. Super gasoline dispenser was in service.
 - Concrete work in progress in the tank field area.
 - Final precision test had not yet been performed for this UST system.

- Directed to cease sale of all super gasoline product until completion of the precision test.
- September 30, 1994. MDE-OCP site inspection. Informed that one of the gasoline tanks would be precision tested. A copy of precision test records including any attempted test completed to date was requested.
- October 3, 1994. *Notice of Violation NV 95-028* issued by MDE against Genie & Co. Inc. (Robert Calvert and Jean Marie Calvert). Violations based on the violations observed during the 09/16 & 23/94 site visits by MDE-OCP inspector.
 - The first inspection revealed that the kerosene UST contained gasoline.
 - The nozzle from the dispenser marked kerosene contained gasoline.
 - Gasoline was being pumped unattended from the mid-grade gasoline tank to the kerosene tank.
 - Pump meter registered 351 gallons and continued pumping.
 - Gasoline transfer performed without liquid tight connection and proper Phase I vapor recovery connection.
 - The second inspection revealed that the super gasoline that had failed precision test had been repaired and placed back into service without retesting the system.
 - Truck tanks continue to be loaded using a hose connection from the building and not the required loading rack.
 - Oil Operations Permit - #93-OP1829 is for the transport of petroleum product only and not for the transfer of product.
- October 27, 1994. Letter from MDE's Attorney General's Office to the attorney representing Genie & Co. Inc. regarding the negotiation and settlement at the Office of Administrative hearings.
- November 10, 1994. MDE-OCP compliance inspection to determine if the conditions of the Oil Operations Permit which originally was issued for the delivery of petroleum only, needed to be modified to include the transfer of petroleum products.
- November 23, 1994. MDE-OCP issued a modified Oil Operations Permit 93-OP-1829.
 - Permit valid until 12/17/97
- December 22, 1994. Compliant, Penalty and Order *COV 94-011* filed by the MDE against Genie & Company Inc. (Jean Marie Calvert) and executed 01/24/95.
 - Within 30 days of the execution of the Consent Order Genie & Co. Inc. must pay a penalty of \$2000.
 - Cease the transfer of petroleum product from kerosene tank to other UST systems utilizing a pump dispenser without liquid tight-connections and a proper vapor recovery connection.
 - Within 10 days remove the underground piping used to fill truck tank until an Oil Operations Permit application is approved by the Dept. for the loading of truck tanks.
 - If the Dept. determines that remedial action is warranted to adequately reduce contamination, Genie Oil must perform these actions.
 - In the event that Genie & Co. fails to perform remedial actions then the State may assume control of the site and seek reimbursement for expenses
- January 19, 1995. MDE-OCP executed an Access Agreement with Genie & Co. Inc. for the installation of three monitoring wells.
- February 16, 1995. MDE-OCP letter to Genie & Co. Inc requiring the registration of all UST systems at the facility with the Department.
- February 27, 1995. MDE-OCP site visit to oversee the installation of three monitoring wells.
 - MW1 (near supply well) Strong gasoline vapors at 10 to 12 ft. Drilled to depth of 25 ft
Well screened from 5 to 25 ft.
 - MW2 Heavily contaminated.
Strong odors at 6 ft and persisted throughout drilling of the well.

Field screen instrument recorded 2063 to 2477 units with increasing depth.
 LPH visible in drill cuttings and in water as auger was removed.
 Total well depth 28 ft. Well screened from 8 to 28 ft.
 Contamination evident. Sheen visible in drill cuttings
 Total well depth 28 ft. Well screened from 8 to 28 ft.

- MW3
- March 2, 1995. MDE-OCP site visit to gauge monitoring wells
 - MW2 had very strong odors of gas and the water appeared brown-yellowish in color.
- March 31, 1995. MDE-OCP received sampling results for the 02/27/95 sampling event
 - Soil samples collected from select intervals were non detect or below regulatory limits for BTEX.
 - MW2 (13 – 15 ft) TPH-GRO – 760 ppm
 - MW2 (18 ft) TPH-GRO – 1820 ppm; kerosene – 6900 ppm
 - MW3 (14 ft) TPH-GRO – 500 ppm; kerosene – 8620 ppm
 - MW3 (12 - 14 ft) TPH-GRO – 650 ppm; kerosene – 12350 ppm
- April 6, 1995. MDE-OCP site visit to 4731 Mountain Road across Long Point Rd.
 - An old hand dug well identified along the side of the house.
 - Well is >500ft away form the Genie & Co. Inc property.
 - Well to be sampled
- May 30, 1995. *Notice of Violation NV 95-131* issued by MDE against Genie & Co. Inc. (Jean Marie Calvert).
 - MDE-OCP installed 3 on-site monitoring wells at the facility;
 - Elevated levels of soil contamination detected from 12 feet to the groundwater table.
 - Groundwater samples collected from the on-site monitoring well network detected petroleum constituents
 - Sampling event 02/27/95 - Groundwater Sampling Results
 - MW1 (installed 02/1995) BTEX -15 ppb (benzene –9 ppb, toluene – 6 ppb, MTBE – 89 ppb)
 - MW2 (installed 02/1995) BTEX - 10799.6 ppb (benzene – 1065.8 ppb, toluene – 4779.4 ppb, ethylbenzene –790.5 ppb, xylene – 4163.9 ppb; naphthalene – 632.1 ppb; MTBE – 6751.8 ppb)
 - MW3 (installed 02/1995) BTEX - 16.2 ppb (benzene –6.2 ppb, xylene - 10 ppb, MTBE – 314.9 ppb)
 - Conduct additional investigation to define the extent of groundwater contamination.
 - Submit a Corrective Action Plan for the cleanup of contaminated soil and groundwater.
- June 27, 1995. MDE-OCP site visit to gauge the on-site monitoring wells.
 - Evidence of surface spill observed under the fuel trucks and the along the side of the tank field.
 - Stained soils around the bulk fuel hose nozzle that laid on the ground.
 - Staining around the fuel pipe .
 - None of these spills were reported to the Dept. by the owner/operator.
- July 17, 1995. MDE-OCP met with Genie & Co. to discuss the contamination of the property.
 - Mr. Robert Calvert indicated that the contamination detected may have been the result of the old tanks that were removed in 1985 and that he had no funds to perform the site investigation.
 - Mr. Calvert referred to other potential sources including the neighboring property and the previous owner/operator who in his opinion could have been responsible parties.
 - The Dept. requested further hydrogeologic study to define the extent of petroleum contamination.
- September 14, 1995. *Complaint, Order and Civil Penalty – COV 96-001* filed by MDE against Genie & Co. Inc. (Jean Marie Calvert) and executed 09/14/95. Violations based on observations during the 06/27/95 site visit by MDE-OCP inspector.
 - Fresh oil staining observed on the ground extending from the tank truck owned by Genie & Co. to the UST tank field behind the building.
 - Oil staining also observed near the fuel hose used to fill up the tank truck and in the area of the fuel nozzle.
 - \$3000 Administrative penalty assessed against Genie & Co. for failure to report the discharges to the MDE.

- August 8, 1995. MDE-OCP site visit to gauge and sample the on-site monitoring wells.
 - MW1 Depth to water 24.3 ft; slight odor; water level 14.5 ft
 - MW2 Depth to water 27.7 ft; water level 15.65 ft
 - MW3 Depth to water 27.4 ft; water level 14 ft

- December 29, 1995. MDE-OCP inspection revealed that the tank size and product must be clearly displayed.

- January 3, 1996. MDE-OCP issued a *Notice of Violation NV 95-13 1* based on the 08/08/95 sampling event.
 - Required quarterly sampling of all groundwater monitoring wells and the on-site supply wells.
 - Required payment of the outstanding penalty in the amount of \$2000.
 - Sampling event 08/08/95
 - MW1 MTBE – 234 ppb, benzene – 24.2 ppb, toluene – 46 ppb, ethylbenzene - 10 ppb, xylene – 41.9 ppb; naphthalene – 10.1 ppb
 - MW2 MTBE – 3500j ppb, benzene –719j ppb, toluene –1880j ppb, ethylbenzene -360 ppb
 - MW3 xylene - 1635 ppb; naphthalene – 189 ppb
MTBE – 377 ppb, benzene – 8.28 ppb, toluene - 6.6 ppb, ethylbenzene - 8.23 ppb, xylene - 21.97 ppb; naphthalene – 29.8 ppb
 - PW (supply well) MTBE – non detect; benzene – 10 ppb; ethylbenzene –57.7 ppb, xylene –325.7 ppb; naphthalene – 12.6 ppb

- July 20, 1996. MDE-OCP received via fax from Air Photographs Inc. a copy of aerial photograph(s) of the area including the subject property.

- February 18, 1999. US. EPA conducted an inspection of the facility and interviewed the operator –Mr. Robert Calvert. Outlined below were the findings;
 - Gasoline station pumps <40,000 gallons of fuel per month (operator Genie & Co.)
 - Since 1981, Property and building privately owned by Robert Calvert (a.k.a Genie & Co.).
 - Prior to 1981, property owned by Fred Herbie who independently owned and operated a BP Oil station.
 - Five (5) USTs in operation(three 5000 –gal gasoline, an 8000-gal gasoline; and, a 10000-gal diesel).
 - These existing UST systems are second generation tanks installed in 1991.
 - Tanks are buffhide tank equipped with Red Jacket leak detection system (no documentation provided of manufacturers brochure or operational manual).
 - No records provided for the installation of the five (5) USTs.
 - Two tank fields are locate don the property
 - Three 5000 gallon gasoline tanks are located on the northeast side of the building
 - The 8000 -gallon gasoline and 10,000-gallon diesel are locate don the southeast side of the facility
 - In 1991, the 8000-gallon tank stored kerosene but in 1994 this tank was converted to gasoline storage.
 - In 1991, a 1000-gallon aboveground storage tank was installed to store kerosene.
 - In 1991 the first generation UST systems were removed.
 - Included 7 USTs each with a storage capacity of 2000-gallons (i.e. 4 gasoline tanks, a waste oil tank, a heating oil tank and a kerosene tank.
 - No records provided for tank removal of the first generation UST systems.
 - 3 on-site monitoring wells and four tank field monitoring pipes were gauged;
 - MW1 1¹/₄ inches of LPH
 - MW2 Water free of LPH
 - Violations identified included;
 - 1¹/₄ inches of LPH detected in the monitoring well located close to the diesel UST tank field.
 - Leak detection limited to the Red Jacket pressurized pumping system capable of shutting down only during catastrophic release event from the piping system. Facility needs another means of leak detection for piping.
 - No release detection method capable of detecting a leak from the 5 UST systems.

- Poor-records keeping related to release detection, results of tank tightness tests, closure records for tanks removed from the facility and operational compliance of the UST system
- November 18, 1999. US EPA letter to Genie & Co (Robert Calvert) requesting information pursuant to Section 9005 of the Resource Conservation & Recovery Act;
 - Submit copy of the tank registration record.
 - Identify prior owners and, or operators currently or previously existing at the facility.
 - Specify tank installation date, storage capacity, material construction, internal protection, external protection and substance currently stored in each tank.
 - Specify any USTs that have been taken out of service, removed or abandoned in place.
 - Provide current status of all USTs and estimated date of last use .
 - Describe leak detection methods of the UST system and submit all pertinent testing records.
 - Document all past/current release of regulated substances from any of the UST system.
 - Submit all documentation relating to every MDE -OCP case(s) pertaining to this facility.
 - Describe the spill and overfill protection measures at the facility.
 - Submit inventory control records.
 - Provide proof of liability insurance.
 - Submit schematic drawing of the site showing UST locations, utilities and monitoring wells.
 - Describe remedial actions implemented to address the LPH in the monitoring well located closest to the UST tank field.
- April 12, 2000. US EPA letter to Genie & Co (Robert Calvert) requesting information pursuant to Section 9005 of the Resource Conservation & Recovery Act;
 - Submit copy of the tank registration record.
 - Identify prior owners and, or operators currently or previously existing at the facility.
 - Specify tank installation date, storage capacity, material construction, internal protection, external protection and substance currently stored in each tank.
 - Specify any USTs that have been taken out of service, removed or abandoned in place.
 - Provide current status of all USTs and estimated date of last use .
 - Describe leak detection methods of the UST system and submit all pertinent testing records.
 - Document all past/current release of regulated substances from any of the UST system.
 - Submit all documentation relating to every MDE -OCP case(s) pertaining to this facility.
 - Describe the spill and overfill protection measures at the facility.
 - Submit inventory control records.
 - Provide proof of liability insurance.
 - Submit schematic drawing of the site showing UST locations, utilities and monitoring wells.
 - Describe remedial actions implemented to address the LPH in the monitoring well located closest to the UST tank field.
- May 4, 2000. US EPA letter to Genie & Co. granting an extension until 05/14/00 to submit requested information.
- December 11, 2000. US EPA internal e-mail concerning the enforcement status of the case.
- February 6 & 7, 2001. US EPA internal e-mails concerning the enforcement status of the case.
- February 8, 2001. Email from US. EPA to MDE-OCP clarifying that in the EPA's inspection report 1½ inches of product was found in a monitoring well in Well No. 1 located at the corner of the pad closest to the diesel tank field. EPA inspector informed MDE inspector of findings. Requested clarification on the product found and the next actions to be taken against Genie & Co.
- February 14, 2001. MDE-OCP received a copy of the US EPA letter to Genie & Co (Robert Calvert) requesting the following based on the 02/18/99 compliance inspection;
 - Specify all substances stored to date in the 8000-gallon tank.

- Clarify the release detection method for each of the five UST systems and for each associated piping run.
 - The Red Jacket Leak detection Method does not qualify as an automatic tank gauging system (ATG)
 - Provide supplemental evidence of proper inventory control
 - Submit testing records for the last 12 months.
 - The UST systems at the facility appear to be constructed of steel and cathodically protected by an impressed current . Not buffhide tanks as earlier stated. (Submit the associated last two test results for the tanks)
 - Financial Responsibility has not been in effect since 05/13/00
 - Genie & Inc. recently filed for bankruptcy protection. Submit all supporting documentation.
 - Submit the response containing the necessary information no later than 15 calendar days
- March 20, 2001. MDE-OCP received a copy of the US EPA letter dated 03/16/01 to Genie & Co (Robert Calvert) requesting the following based on the 02/18/99 compliance inspection;
 - Specify all substances stored to date in the 8000-gallon tank.
 - Clarify the release detection method for each of the five UST systems and for each associated piping run.
 - The Red Jacket Leak detection Method does not qualify as an automatic tank gauging system (ATG)
 - Provide supplemental evidence of proper inventory control
 - Submit testing records for the last 12 months.
 - The UST systems at the facility appear to be constructed of steel and cathodically protected by an impressed current . Not buffhide tanks as earlier stated. (Submit the associated last two test results for the tanks)
 - Financial Responsibility has not been in effect since 05/13/00
 - Genie & Inc. recently filed for bankruptcy protection. Submit all supporting documentation.
 - Submit the response containing the necessary information no later than 15 calendar days
- May 22, 2001. US EPA letter to Genie and Co (Robert Calvert) requesting the submittal of the following documentation;
 - Final bankruptcy statements.
 - Sale of Genie & Co.
 - Copies of tank and/or line tightness test for the last 5 years
 - Financial Responsibility for the last 5 years
 - Inventory control monthly reconciliation records for the past 3 years.
- October 3, 2001. E-mail to MDE-OCP from US EPA Region III indicating their intent to close their case because due to a 'glitch' in the MDE-OCP regulations, they cannot take an action for failure to respond.
- October 16, 2001. Letter from the US.EPA dated 10/12/01 to MDE-OCP confirming that the State would take lead enforcement role against Genie & Co. Included was EPA case file.
- March 29, 2002. MDE-OCP sit visit . Several 5-gallon product containing petroleum product was observed on-site and evidence of release on the ground surface. Overall poor housekeeping practices. The Dept. required the following;
 - Remove all leaking containers from the site.
 - Remove or close any open containers.
 - Properly dispose of all product from containers.
 - Remove contaminated soils for proper disposal.
- February 14, 2003. MDE-OCP issued a Notice of Violation NV 2003-070 to Island Petroleum Corporation concerning violations of the Special Conditions of *Oil Permit No. 98-OPT-2347A* based on the 01/30/03 compliance inspection by the OCP's engineer.
 - The 1000 gallon kerosene storage system must have an emergency vent
 - Hang up and cap the transfer hose when not in use.
 - The truck loading area does not meet the minimal construction height
- July 24, 2003. Faxed notification of tank upgrade activities received by MDE-OCP from PMG contractors.

- November 10, 2003. MDE-OCP site visit to observe the stockpile of petroleum impacted soils generated by recent tank upgrade activities by the new operator -PMG. The Department required the following;
 - Obtain two composite soil samples from each stockpile and sample for petroleum constituents
 - Sample all existing monitoring wells.
 - New operator must amend the tank registration form for the UST systems in operation.

- December 5, 2003. MDE-OCP received via fax, sampling results for the stockpiled petroleum impacted soils.
 - Pile 1 Non detect for petroleum constituents, TPHDRO – 250 ppm
 - Pile 2 Non detect for petroleum constituents, TPHDRO – 77 ppm

- December 10, 2003. MDE-OCP *Contaminated Soil Removal* report.
 - Approximately 50 tons of petroleum impacted excavated for proper off-site disposal.

- April 23, 2004. MDE-OCP compliance assistance inspection.
 - Oil contaminated soils remained stockpiled in the rear of the property.
 - Several operational compliance issues were identified
 - Tank field monitoring pipes were gauged. No sheen detected or odor.
 - Water was free of LPH in the gasoline tank field monitoring pipe
 - Water was dark and murky in the tank field-monitoring pipe near the diesel/kerosene tank field.
 - Several violation were identified
 - The UST systems must be properly registered with eth Dept. (MDE-OCP was informed that PMG is the new operator of the facility).
 - Provide verification of pollution liability insurance.
 - Submit statistical inventory records for March 2004 – *received 04/30/04*
 - Provide documentation of UST material construction.
 - Submit precision test results for the UST system (i.e. pressurized lines – *last conducted 09/09/0* , data *received 04/30/04*; Stage II, line leak detectors).
 - Maintain spill buckets clean and dry. Properly mark fill locations.
 - Ensure proper operation of overflow protection for the unleaded regular gasoline UST.
 - Install a manway cover over the ATG probe at the regular gasoline UST.
 - Install a monitoring probe in the submersible pump sump for the regular gasoline UST.
 - Remove and properly dispose of kerosene in the kerosene dispenser sump.
 - Verify that the kerosene UST system is not leaking.
 - Provide documentation of release detection for the diesel UST for May 2004 – *received 04/30/04*

- April 30, 2004. MDE-OCP collected a drinking water sample from the station’s supply well (*See Sampling Table*).

- April 23 – 24, 2007. Internal MDE-OCP e-mails concerning outstanding violations at the facility.
 - Genie Oil no longer exists. Fuel delivery is through Island Petroleum.

- May 9 - 10, 2007. MDE-OCP compliance inspection at the facility discovered 10 inches of weathered LPH in an on-site monitoring wells. The location of the other two monitoring wells could not be located.
 - Proof of insurance liability provided
 - Line and leak detector test last performed 11/2006 –passed
 - Statistical inventory being performed for the five active UST systems
 - Several violations were identified;
 - Containment sumps must be inspected every 5 years.
 - Place signage that is clearly visible to delivery drivers that outline UST capacities and the product which each stores.
 - Install a new cover on the monitoring well located next to the dispenser.
 - Evaluate the integrity of the monitoring pipes in the diesel and kerosene tank field to ensure that they are at least 2 feet below grade.

- July 6, 2007. MDE-OCP follow-up compliance inspection at the facility, confirmed that the station was in operational compliances with existing regulations.
- July 3, 2007 . *Notice of Violation NV 2008-001* issued by MDE against Genie & Co. Inc./Island Petroleum Inc. (Jean Marie Calvert).
 - During an 05/10/07 inspection , 10 inches of LPH was identified in a monitoring well in front of the property.
 - Product appeared to be weathered.
 - Current operations of the UST system do not appear to be the source of the release.
 - Submit an Interim *Corrective Action Plan* to address the LPH found in the on-site monitoring well, no later than August 10, 2007
 - Submit an *Investigation Work Plan* to delineate the total extent of petroleum contamination , no later than August 31, 2007.
- July 23, 2007. AACHD e-mail to MDE-OCP expressing concerns about the contamination identified on-site at the Mountain Road Chevron Facility requesting guidance on what to do in surrounding areas.
- July 27, 2007. MDE-OCP e-mail requesting the assistance of AACHD to sampling fourteen (14) off-site residential private wells (including 3 non-community supply wells*) as a precautionary measure.
 - 4721, 4722, 4729*, 4730* and 4862* Mountain Road
 - 4700 and 4705 Henshaw Lane
 - 1466 Long Point Road
 - 1411, 1413, 1414, 1415, 1416, 1418 Saybrooke Court
- August 14, 2007. MDE-OCP contacted AACHD to verify the status of the off-site sampling effort. The County declined to sample off-site wells as precautionary measure (pers. comm.).
- August 14, 2007. MDE-OCP letters to fourteen (14) off-site property owners requesting permission to sample their drinking water well as a precautionary measure.
 - 4721, 4722, 4729*, 4730* and 4862* Mountain Road
 - 4700 and 4705 Henshaw Lane
 - 1466 Long Point Road
 - 1411, 1413, 1414, 1415, 1416, 1418 Saybrooke Court
- August 15, 2007. MDE-OCP site visit to conduct a field reconnaissance of the area and collect samples from select off-site private wells located immediately adjacent to the Mountain Road Chevron site. Samples collected from three properties.
- August 17, 2007. MDE-OCP received preliminary sampling results for the 08/15/07 sampling event.

• 4730* Mountain Road (Mountain Road Branch Library)	Non detect for petroleum constituents
• 4729* Mountain Road (Fishbone Bait & Tackle Inc.)	MTBE - 58pb, TBA - 12pb
• 4731* Mountain Road (Chevron Mountain Rd. station)	Benzene - 1 ppb, naphthalene - 15 ppb
- August 24, 2007. MDE-OCP met with representatives for Genie Oil and Island Petroleum (former owners and operators of the facility) to discuss the current status of the case. They contend that they are not the responsible parties since they have not owned nor operated the facility since 2003.
 - A copy of the lease agreement dated 06/23/03 between Island Petroleum (property owner) and Petroleum Marketing Group (tenant) submitted.
- August 28 and 30, 2007. MDE-OCP letter to property owner regarding sampling results collected on 08/15/07.
 - Based on MTBE detection at 48 ppb in the drinking water well at 4729 Mountain Road, the Department strongly recommended that this entire commercial property – Fishbone Bait & Tackle Inc. be retrofitted with a GAC system.
 - Although a GAC system treats the water in the fish tank that stores live bait.

- September 4, 2007. MDE-OCP received UST Compliance Data Package –August 31, 2007 from PMG.
- September 5, 2007. MDE-OCP review of the UST Compliance Data Package –August 31, 2007 confirmed the UST system has been in operational compliance since PMB became new operators .
 - Release detection is Statistical Inventory Reconciliation. SIR data for 08/2006- 07/2007 - passed
 - Tanks and lines precision tested prior to and after upgrade from 08/2003 to 09/2003 – Passed
 - Spill bucket tested 11/15/2006. Regular and diesel failed. Passed after repairs – 12/06/06
 - Containment sumps tested 05/14/07. Premium containment sump originally failed but was retested - Passed
 - Dispenser pan containment sump passed – 05/31/07.
 - Helium test performed 05/24/07 - Passed

Future Updates

- Future updates on this case investigation will be posted at www.mde.state.md.us [at the MDE home page, (select) Land, (select) Program, (select) Oil Control, (select) Remediation Sites].

Contacts:

- Maryland Department of the Environment (MDE) - Oil Control Program: 410-537-3443

Disclaimer

The intent of this fact sheet is to provide the reader a summary of site events as they are contained within documents available to MDE. To fully understand the site and surrounding environmental conditions, MDE recommends that the reader review the case file that is available at MDE through the Public Information Act. The inclusion of a person or company's name within this fact sheet is for informational purposes only and should not be considered a conclusion by MDE on guilt, involvement in a wrongful act or contribution to environmental damage.

Monitoring Well Sample Results at the Mountain Road Chevron (a.k.a. former Genie & Co Inc.) facility located at 4731 Mountain Road, Pasadena, Anne Arundel County

On-site Monitoring Wells at Mountain Rd Chevron/Genie Oil 4731 Mountain Road	Sampling Date	Benzene	MTBE	Other Constituents of Concern
		MCL – 5 ppb	Action Level – 20 ppb	Tertiary butyl Alcohol (TBA) - unregulated Tert-Amyl Methyl Ether (TAME) – unregulated Tert-Amyl Alcohol - unregulated TPH/GRO & TPH-DRO – MCL at 47 ppb
MW1 (Installed 02/1995 by MDE) Well depth 25 ft Water depth 14.5 ft Well screened 5 to 25 ft	MDE-OCP –02/27/95	9	89	Toluene – 6 ppb
	MDE-OCP –08/08/95	24.2	234	Naphthalene – 10.1 ppb; Ethylbenzene – 10 ppb; Toluene –46 ppb; Xylene – 41.9 ppb
	US EPA – 02/18/99	1.25 inches of LPH detected		
	MDE-OCP – 05/09-10/07	10 inches of LPH detected		
MW2 (Installed 02/1995 by MDE) Well depth 28 ft Water depth 15.65 ft Well screened 8 to 28 ft	MDE-OCP –02/27/95	1065.8	6751.8	Naphthalene – 632.1 ppb; Ethylbenzene – 790.5 ppb; Toluene –4779.4 ppb; Xylene – 4163.9 ppb
	MDE-OCP –08/08/95	719j	3500j	Naphthalene – 189 ppb; Ethylbenzene – 360 ppb; Toluene –1880j ppb; Xylene – 1635 ppb
	US EPA – 02/18/99	No LPH detected		
	MDE-OCP – 05/09-10/07	Well could not be located		
MW3 (Installed 02/1995 by MDE) Well depth 28 ft Water depth 14 ft Well screened 8 to 28 ft	MDE-OCP –02/27/95	6.2	314.9	Xylene – 10 ppb
	MDE-OCP –08/08/95	8.28	377	Naphthalene – 29.8 ppb; Ethylbenzene – 8.23 ppb; Toluene –6.6 ppb; Xylene – 21.97 ppb
	US EPA – 02/18/99	No LPH detected		
	MDE-OCP – 05/09-10/07	Well could not be located		

Drinking Water Sampling results in the vicinity of the *Mountain Road Chevron (a.k.a. former Genie & Co Inc.)* facility located at 4731 Mountain Road, Pasadena, Anne Arundel County

Sample location	Sample dates	Benzene MCL at 5 ppb	MTBE State's Action Level – 20 ppb	Other petroleum constituents <i>Naphthalene – Action Level 10 ppb; Ethylbenzene – MCL at 700 ppb; Toluene – MCL at 1000 ppb Xylene – MCL at 10000 ppb TPH-GRO – Action Level at 47 ppb Tertiary butyl alcohol – 9 ppb</i>
Mountain Rd Chevron/Genie Oil 4731 Mountain Road	AACHD –08/29/93	245	NA	Naphthalene - 22 ppb; Ethylbenzene – 346 ppb; toluene 207 ppb; xylene 1421 ppb
	AACHD –10/08/93	33	NA	Naphthalene - 16 ppb; Ethylbenzene – 43 ppb; toluene 26 ppb; xylene -97 ppb
	AACHD –10/15/93	19.4	ND	Naphthalene – 35.5 ppb; Ethylbenzene – 77.6 ppb; toluene 34.8 ppb; xylene –421.8 ppb
	MDE-OCP –06/20/94	9.8	ND	Naphthalene – 35.5 ppb; Ethylbenzene – 57 ppb; xylene – 337 ppb; TPH-GRO – 1000 ppb
	MDE-OCP - 08/15/07	0.8 <i>(preliminary results 1 ppb)</i>	ND	Naphthalene – 15 ppb <i>(preliminary results 12ppb)</i> Ethylbenzene – 11 ppb; xylene 12 ppb
Off-site Private Wells (* - commercial business)				
4700 Henshaw Lane	CGS sampled 08/23/07			
4705 Henshaw Lane				
1464 Long Point Road	No house on property 08/23/07			
1466 Long Point Road	CGS sampled 08/23/07			
4721 Mountain Road	CGS sampled 08/23/07			
4722 Mountain Road	CGS sampled 08/23/07			
4729 Mountain Road* Fishbone & Tackle Inc.	MDE-OCP - 08/15/07	ND	58 <i>(preliminary results – 46 ppb)</i>	TBA – 12 ppb <i>(preliminary results – 9ppb)</i>
4730 Mountain Road* Mountain Road Branch Library	MDE-OCP - 08/15/07	ND	ND	ND
4731 Mountain Road	MDE-OCP – 04/30/04	ND	ND	Naphthalene – 9.72 ppb ; Ethylbenzene – 10.4 ppb; xylene 24.5 ppb
1411 Saybrooke Court	Property owner on vacation- 08/23/07			
1413 Saybrooke Court	Vacant 08/23/07			
1414 Saybrooke Court	CGS sampled 08/23/07			
1415 Saybrooke Court	CGS sampled 08/23/07			
1416 Saybrooke Court	CGS sampled 08/23/07			
1418 Saybrooke Court	CGS sampled 08/23/07			