AU243 **WOLF AMOCO** **NY LTANKS** **S106703198**
West **3072 CROPSEY AVE** **NY Spills** **N/A**
1/4-1/2 **BROOKLYN, NY**
0.358 mi.
1892 ft. **Site 1 of 2 in cluster AU**

Relative:
Higher

Actual:
8 ft.

LTANKS:

Name:	WOLF AMOCO
Address:	3072 CROPSEY AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	8710636 / 2005-05-03
Facility ID:	8710636
Site ID:	243103
Spill Date:	1988-03-21
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	A3
Cleanup Ceased:	Not reported
SWIS:	2401
Investigator:	KMFOLEY
Referred To:	Not reported
Reported to Dept:	1988-03-21
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
Meets Standard:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	1988-03-22
Spill Record Last Update:	2005-05-03
Spiller Name:	Not reported
Spiller Company:	AMOCO STATION
Spiller Address:	37-02 CROPSEY AVE
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	2
DER Facility ID:	102204
DEC Memo:	"0/14/03 REASSIGNED FROM SULLIVAN TO VOUGHT. 1/8/04 Reassigned from Vought to K Foley. 5/3/05 Changed address from 3702 to 3072 Cropsey Ave. Investigation and remediation being tracked under spill #9201799."
Remarks:	"4K TANK SYSTEM FAILED AIR PRESSURE TEST, WILL EXCAVATE AND INVESTIGATE"

All TTF:

Facility ID:	8710636
Spill Number:	8710636
Spill Tank Test:	1533467
Site ID:	243103
Tank Number:	Not reported
Tank Size:	0
Material:	0009
EPA UST:	Not reported
UST:	Not reported
Cause:	Not reported
Source:	Not reported

Test Method:	00
Test Method 2:	Unknown
Leak Rate:	.00
Gross Fail:	Not reported
Modified By:	Spills
Last Modified Date:	Not reported

All Materials:

Site ID:	243103
Operable Unit ID:	916504
Operable Unit:	01
Material ID:	462399
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	Not reported

SPILLS:

Name:	WOLF PETROLEUM CORP
Address:	3072 CROPSEY AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	9201799 / Not Reported
Facility ID:	9201799
Facility Type:	ER
DER Facility ID:	102204
Site ID:	117493
DEC Region:	2
Spill Cause:	Unknown
Spill Class:	A3
SWIS:	2401
Spill Date:	1992-05-13
Investigator:	adzhitom
Referred To:	RAWP RECEIVED
Reported to Dept:	1992-05-13
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	4
Date Entered In Computer:	1992-05-20
Spill Record Last Update:	2019-07-30
Spiller Name:	Not reported
Spiller Company:	WOLF PETROLEUM
Spiller Address:	55 JERICHO TURNPIKE
Spiller Company:	001
Contact Name:	Not reported
DEC Memo:	"9/8/03 Transfered from O'Dowd to Vought. 12/3/03 Reassigned from Vought to Foley. Wolf Petroleum site. See also spill #8710636.

2/24/04 File review: Enhanced Fluid Recovery Pilot Test report(Baltec, 8/28/98). DTW approx 7'bgs, flowing west. Based on results of the pilot, it appeared that 16-19 in Hg applied to the extraction well may yield 83cfm (air flow rate). This flow rate was observed to be sufficient for inducing a vacuum of 0.1 waste column (ROI) at a distance of up to 25' from the extraction well. EFR appeared to be an effective technology. Third Quarter 1998 report (Baltec, 2/16/99) Fourth Quarter 1998 report (Baltec, 5/6/99) First Quarter 1999 report (Baltec, 7/9/99) LNAPL was detected in MW-3, MW-5, and TMW-2. 2/25/04 Met with B. Beck, National Environmental. Expressed concern over this site since it is very close to Graves End Bay (corrected AO - 7/20/11) and there has been LNAPL on site. Beck not sure how to address the problem since groundwater is very shallow with boggy conditions. Not currently monitoring groundwater. 9/21/04 Sent letter requiring gauging and sampling. First report due 11/1/04. 9/29/04 Met with B. Cohen(Certilman Balin Attorneys), B. Beck(consultant, National Env.) with J. Rommel and L. Oliva. Report is due 11/1/04. 11/1/04 Extention granted until 11/10/04. 11/10/04 Received quarterly report. No LNAPL detected. BTEX ranged from ND(MW-4) to 2487ppb(MW-5). MTBE ranged from ND(MW-7,6,4,1) to 284ppb(MW-5). 1/31/06: Case reassigned to Andersen. No correspondence since quarterly report dated 11/9/04. Sent quarterly reports required letter. 3/13/06: Received a letter from Bruce Beck of National Environmental stating that he will send a monitoring report. 5/19/06: Consent order meeting with Wolf scheduled for June 2 at 11am. 6/8/06: Meeting with NYSDEC, Barry Cohen (Wolf's attorney's) and Bruce Beck (Wolf's consultant) regarding the consent order. Bruce Beck indicated

that the quarterly report dated November 2004 included a remedial action plan that was never approved by the Department. 7/5/06: Reviewed the report dated 11/2004 - MNA proposed. Updated report due 7/7/06, then RAP will be requested by the Department. 7/10/06: Emailed Bruce Beck to set up a meeting to discuss deliverables required for consent order. 2/21/07: Bruce Beck will call in a spill (06-12645) for the concrete plant on the adjacent property (3024 Cropsey Avenue). Hydraulic oil was spilled and flowed into the dry well on Wolf's property. Wells were sampled. Product was present. May VEFR wells. Will submit a report with sampling data and intent to VEFR wells. 5/16/07: Received report. Wells sampled in 2/2007. DTW 5 - 7 ft. Trace LNAPL in MW6 and TMW2. MW 5 not sampled because it was inaccessible. Max BTEX 1,530 ppb (TMW1), max MTBE 263 ppb (TMW1). Although DTW was measured, the groundwater flow direction was not determined. It was mentioned that recovery would occur in March, April, and May, but there was no mention of what was recovered. Tightness testing not completed. RAP not submitted. 5/17/07: Sent letter indicating that groundwater flow direction determination, recovery, tank tightness testing, and a RAP are overdue. 8/6/07: Wolf consent order effective 7/27/07. RAP due 9/25/07. 10/12/07: Spoke to Tracy Wall. She will check on site status and get back to me. 10/15/07: Received RAP. 10/17/07: RAP proposed VEFR from monitoring wells MW-3, MW-5, MW-6, with additional events in TMW-1 and TMW-2 when product is evident. VEFR events are proposed twice monthly until no product is seen in the well for a period of at least 6 months. A chemical injection plan will then be evaluated. The Department conditionally approves this Remedial Action Plan, with the following conditions: 1.VEFR events shall be conducted in MW-7 in addition to monitoring wells MW-3, MW-5, MW-6, TMW-1 and TMW-2. 2.Quarterly monitoring reports must include the volume of liquid recovered during VEFR events and documentation of proper disposal. Groundwater gauging and determination of groundwater flow direction must be included in

quarterly reports. 3.Following two quarters of groundwater monitoring data where LNAPL is not present, a Remedial Action Report will be submitted with an evaluation of the effectiveness of VEFR, and proposed further action. RAP implementation required in 90 days. The latest groundwater monitoring data is overdue for this site. 2/27/08: Reviewed quarterly monitoring report dated December 19, 2007. Wells sampled on 9/5/07. Max BTEX 7,209 ppb (MW5), max MTBE 340 ppb (MW5), sheen in MW5. VEFR recovery conducted in September, October, and November 2007. 70 gallons, 525 gallons, and 50 gallons recovered, respectively. 3/20/08 - Carlson: Meeting with Bruce Beck. December 2007 - February 2008 Quarterly Monitoring Report dated March 5, 2008, and letter regarding Final Report on Remedial Action dated March 18, 2008 were submitted during the meeting. 3/25/08 - Carlson: Reviewed the December 2007 - February 2008 Quarterly Monitoring Report, dated March 5, 2008 and the Final Report on Remedial Action, dated march 18, 2008, both submitted by National Environmental Management Associates, for NYSDEC Spill 92-01799, located at 3072 Cropsey Avenue in Brooklyn, NY. The report indicates trace LNAPL is present in MW3. A benzene concentration of 2,450 ppb was present in MW-7, the downgradient well, during the February 2008 groundwater sampling event. The approved remedial action plan for this site required conducting twice monthly VEFR events from MW-7, MW-3, MW-5, and MW-6. However, VEFR was only conducted once in February, and not at all in January. MW-3 was the only well in which VEFR was conducted. This is a violation of the Wolf Order on Consent, DEC File No.

R2-20060224-65, execution date July 27, 2007. The Department requires the following action: 1.Groundwater delineation: Installation of a downgradient monitoring well to the north of MW-7. Please submit a brief workplan with proposed well locations to the Department prior to well installation. 2.Perform semi-monthly VEFR events from MW-7, MW-3, MW-5, and MW-6, as noted in the approved remedial action plan. 3.Submission of an additional Remedial Action Plan to treat off-site contamination in MW-7. This Remedial Action Plan is due within 60 days. 3/26/08: Received email from Bruce Beck. He will send a revised report with corrections. 4/8/08: Received revised December 2007 - February 2008 report. The corrections in the report show that vacuum enhanced fluid recovery events were performed at wells MW-3, MW-5, MW-6, MW-7, TMW-1, and TMW-2 on a bi-monthly basis during December, January, and February. 7/7/08 - Carlson: The Department reviewed a report dated June 30, 3008. A null IP was proposed. The report states it is not likely that the private property owner would allow a monitoring well to be installed on their property... The report also proposes continued use of VEFR. A sheen is present in two sidewalk wells at this site, which are located approximately 170 ft from Gravensend Bay. Sent email requiring that Wolf request access from the property owner to install a delineation well on their property, and requiring a more aggressive Remedial Action Plan be submitted. 7/9/08 - Carlson: Received email from Bruce Beck. They will request access to install downgradient well and will submit a revised RAP. Will discuss at meeting planned for August. 7/10/08 - Carlson: Letter sent by DEC Urda requiring off-site delineation and off-site RAP within 30 days. DEC Carlson performed site visit. 7/14/08 - Carlson. Reviewed March 2008 - May 2008 Update report. Sheen present in off-site wells MW6 and MW7. VEFR occurring bimonthly. Additional delineation and off-site RAP required as noted in abovementioned correspondence. 8/19/08 - Carlson: Meeting with Bruce Beck and Tracy Wall of NEMA. NEMA indicated that a letter was sent to the adjacent property owner for access, the Department does not have a copy of this letter in our file. 10/30/08 - Carlson: Reviewed June 2008 -

August 2008 Quarterly Monitoring Report. Sheen present in 5 wells. Bimonthly VEFR ongoing. Wells sampled on 8/13/08. Maximum BTEX concentration 2,640 ppb (MW3). Maximum MTBE concentration 845 ppb (MW7). 11/19/08 - Carlson: Meeting with Bruce Beck and Tracy Wall of NEMA. They are having trouble getting access to downgradient property owner. A site inspection is required before they can prepare a workplan. The NYSDEC was not cc'd on correspondence with the downgradient property owner. 11/24/08 - Carlson: Received copies of three letter sent to Quadrozzi Realty, owner of 1705 Hart Place. Forwarded to NYSDEC Attorney Urda. 2/20/09: Reviewed update report dated January 13, 2008. Bimonthly VEFR and gauging ongoing. Sheen every well at some point during quarter. Action: call tracy wall to check on status of access for site visit to develop IP. Spoke to Bruce Beck - he has not been in contact with DEC Urda or the property owner. Emailed DEC Urda to help with off-site access. 2/23/09 - Carlson: John Urda issued the following email to Barry Cohen: Bill Wolf Petroleum has been unable to gain access to 1705 Hart Place, Brooklyn -- a site adjacent to 3072 Cropsey Avenue -- in order to place a required monitoring well. Bruce Beck has sent several letters on behalf of Wolf to Quadrozzi Realty Corp. seeking an access agreement, that apparently have gone unanswered. I believe he has the wrong entity. According to ACRIS, the property owner is FAE Holdings 390783R, LLC. Quadrozzi Realty has an interest in the property

regarding the leases, but is not the owner. Please contact the property owner or other appropriate party immediately to resolve this issue, and keep me informed of your efforts. 4/16/09 - Carlson: Reviewed December 2008 - February 2009 Quarterly Monitoring Report. Bimonthly VEFR is ongoing. Groundwater sampling conducted on March 5th. LNAPL sheen in 6 wells. Evaluate VEFR effectiveness and discuss at upcoming meeting. 4/29/09 - Carlson: Met with Bruce Beck. He indicated that an access agreement is in progress to develop a delineation workplan. 6/25/09 - Carlson: Received email from Bruce Beck with copy of letter from Quadrozzi (property owner to the north). They are requesting a letter from the NYSDEC stating well installation on their property is required. Replied - letters were issued on March 25, 2008 and July 10, 2008. 7/2/09 - Carlson: Received email from Bruce Beck: The attorneys finalized everything and the final access agreement was forwarded to the adjoining property owner and should be signed soon and we will have access to install that well. Once we have access we will contact you to see if you would like to attend an on-site meeting to determine the well location. 7/8/09 - Carlson: Reviewed update report. Sheen in every well throughout quarter. Twice monthly VEFR ongoing. 10/7/09 - Carlson: Reviewed June 2009 - August 2009 Update Report. Wells sampled on 8/20/2009. LNAPL in MW-3,4,5, and TMW-2. Twice monthly VEFR ongoing. Access agreement for off-site delineation is still in negotiation. 11/18/09 - Carlson: Meeting with Bruce Beck and Barry Cohen. They need help gaining off-site access. Mark requested a tidal study. 1/13/10 - Carlson: Reviewed update report. Emailed John Urda - reminder to help with access. Emailed Bruce Beck - submit work plan immediately. The Department understands that implementation will depend on gaining access. 1/26/10 - Carlson: Received investigation work plan and tidal study proposal. Sent email - revised work plan due in 30 days. 2/7/2010 - Carlson: Received revised work plan. 2/12/2010 - Carlson: Approved revised off-site delineation and tidal study work plan. Three off-site wells will be installed. Tidal study will be conducted in two monitoring wells. Investigation Report due 5/12/2010. Implementation dependent on off-site access. 2/17/2010 - Carlson: Meeting with Bruce Beck. They still don't have access for

off-site delineation. 2/24/2010 - Carlson: Emailed John Urda to followup on access for off-site delineation. 4/22/2010 - Carlson: Reviewed update report. Change in GW flow direction. No LNAPL this quarter - should bimonthly VEFR be reduced? 4/30/2010 - Carlson: Emailed Bruce Beck - is LNAPL present so far this quarter? 5/4/2010 - Carlson: Received email from Tracy Wall - LNAPL not present so far this quarter. Approved stopping VEFR if LNAPL is not present during the next site visit. VEFR to resume if LNAPL returns. 5/21/2010 - Carlson: Received email from Bruce Beck - has John Urda been able to contact the adjacent property owner?. Emailed John Urda to followup. 7/14/2010 - Carlson: Received email on 6/10/2010 notifying DEC that VEFR have been stopped because LNAPL is no longer present. 7/16/2010 - Carlson: Reviewed March 2010 - May 2010 Quarterly Monitoring Report. 11/21/11 - Carlson: Issued letter requiring confirmatory investigation work plan by 12/21/11. 1/31/2012 - Carlson: Meeting held on 1/30/2012 with Christine Camardella and Kevin Kleaka of Impact Environmental, Barry Cohen of Certilman Balin, and Carlson, Kolleeny and Urda of NYSDEC. An additional point will be added to the confirmatory investigation work plan. Revised workplan to be submitted in 30 days. 3/6/2012 - Carlson: Reviewed update report dated 1/19/2012. Groundwater sampled on 12/14/11. VOCs above standard

in several wells. 3/12/2012 - Carlson: Approved revised investigation work plan dated 2/2/12. Four borings to be installed. Subsurface investigation report due by 5/11/2012. 4/3/12 - Carlson: Received email notification - investigation scheduled for 4/9 - 4/10. 4/6/2012 - Carlson: Received notification - drilling rescheduled for 4/25/12. 5/11/12 - Carlson: Reviewed 1st quarter 2012 update report. Wells sampled 3/1/12. Confirmatory soil investigation to be performed as per approved workplan. 7/16/12 - Carlson: Reviewed Subsurface Investigation Report. Four soil borings performed. High concentrations of soil VOCs and sVOCs present in all borings. Issued letter requiring an submittal of an RAWP in 30 days. 8/17/12 - Carlson: Meeting held with Christine Camardella of Impact Env. RAWP deadline extended to September 15, 2012. 11/9/12 - Carlson: Reviewed RAP dated 9/26/12 for VEFR. Was this site affected by hurricane Sandy? Issue RAP response letter after evaluation of next gauging and sampling event. VEFR not useful because it was already performed from 2007 - 2010. 11/14/12 - Carlson: Received email from Christine Camardella. This site was affected by Sandy. Sampling to be conducted in mid-December. 07/15/13 - Spill Case is transferred from Sarah Carlson (Section C) to Brevdo (Section B) as per DER Region 2 decision. VB. 07/30/2013 - Spill Case is re-assigned to Alex Zhitomirsky. Re-assignment of Wolf cases to Alex Zhitomirsky discussed between Alex Zhitormirsky and Vadim Brevdo on 7/29/2013 and via Brevdo's e-mails of 7/17/2013 and 7/29/2013. VB 11/17/13 TJD Site inspection (spill #1212990) as part of Hurricane Sandy follow-up. Station is not in operation - appears vacant. Sandy related spill is cross referenced (Spill #9210799) and closed. Any required follow-up to be managed under oldest open spill file. 2-18-2014 Reviewed quarterly monitoring report dated July 29, 2013 and received on Aug.16, 2013. Concentrations of total VOCs in groundwater ranged from 4.33 ppb to 670 ppb. A remedial Work Plan as requested by DEC will be submitted under separate cover. AZ 6-26-2014 Reviewed 3rd Quarter 2013 Monitoring Report. The date of the report has a typo (2012). Monitoring TMW-2 had LNAPL in 08/2009 but the last sampling event was in 08/2010. The highest total VOCs concentration is 670 ppb in MW-7. Soil is grossly contaminated (up to 535,160 ppb). Apparently, no remediation was performed at the site. Left a message for Ms. Camardella. AZ 7-01-2014 Discussed the site with Christine

Camardella. Impact will sample wells TMW-1 and TMW-2. EFR was performed at the site. Currently EFR is not used. Impact will correct statement regarding soil contamination. AZ 10-22-2014 Reviewed 4th Quarter 2013 Monitoring Report dated January 2014. Monitoring well TMW-2 had LNAPL in 08/2009 but the last sampling event was in 08/2010.Impact should sample wells TMW-1 and TMW-2. EFR is currently not performed at the site. The highest total VOCs concentration is 156 ppb in MW-7. Soil is grossly contaminated (up to 535,160 ppb of total VOC). Apparently, no remediation was performed at the site. Groundwater flow was northwesterly in March 2013, southeasterly in July 2013 and northwesterly in September 2013, indicating tidal conditions. AZ 11-12-2014 Reviewed 1st Quarter 2014 Monitoring Report, dated May 8, 2014. Monitoring well TMW-2 had LNAPL in 08/2009 but the last sampling event was in 08/2010.Impact should sample wells TMW-1 and TMW-2. EFR is currently not performed at the site. The highest total VOCs concentration is 156 ppb in MW-7. Soil is grossly contaminated (up to 535,160 ppb of total VOC). Apparently, no remediation was performed at the site. Groundwater flow was northwesterly in March 2013, southeasterly in July 2013 and

northwesterly in September 2013, indicating tidal conditions. No free phase product was detected. Impact is evaluating current soil and groundwater conditions and will be making recommendations for remedial options under separate cover. AZ 3-27-2015 Reviewed 2nd Quarter 2014 Monitoring Report, dated July 25, 2014. Monitoring well TMW-2 had LNAPL in 08/2009 but the last sampling event was in 08/2010.Impact should sample wells TMW-1 and TMW-2. EFR is currently not performed at the site. The highest total VOCs concentration is 167 ppb in MW-7. Soil is grossly contaminated (up to 535,160 ppb of total VOC). As per telephone conversation with NYSDEC on July 9, 2014, tank field wells TWW-1 and TMW-2 have been included in the quarterly sampling and monitoring event. AZ 6-8-2015 Reviewed a 3rd Quarter Monitoring Report dated October 28, 2014. Impact proposed injection of magnesium sulfate heptahydrate commonly known as Epsom Salt. This solution will be applied directly into monitoring wells. Left a message for C. Camardella. The following e-mail was sent to C. Camardella and V. Brevdo: Dear Christine, I have reviewed a remediation work plan submitted by Impact. The plan proposed injection of magnesium sulfate heptahydrate in existing monitoring wells. While proposed anaerobic biological oxidation remedy seems appropriate, this injection should be performed in designated injection points. Existing monitoring wells should be utilized for groundwater monitoring. Please resubmit a modified remedial plan for this site within thirty days. Sincerely, Alex Zhitomirsky - Engineering Geologist 2 NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101 Phone: 718.482.6387 - Fax: 718.482.6390 Email: alexander.zhitomirsky@dec.ny.gov AZ 7-2-2015 The following e-mail was sent to Christine Camardella and V. Brevdo: Christine, I have reviewed the modified remedial plan for this site. This plan is approved. The Responsible Party and its contractors are solely responsible for the safe execution of all invasive work performed at the site, and in particular, are responsible for identifying subsurface utilities and safeguarding the structural integrity of any excavations, buildings, utilities, and other structures both on and off site that may be adversely affected by the work. The Responsible Party and its contractors must obtain any local, state or federal permits or approvals that may be required to perform the work necessary to address this spill. Furthermore, the Responsible Party and its contractors are solely responsible for the implementation of all appropriate health and safety measures during

the performance of this work. Sincerely, Alex Zhitomirsky 8-26-2015 Reviewed 4th quarterly report dated Feb. 4, 2015. Approved modified magnesium sulfate heptahydrate injection (Epson Salt) will be implemented. Concentrations of total VOCs ranged from below reporting limits to 1,082 ppb in MW-3.Contaminatn levels in soil are up to 995,000 ppb in saturated and smear zones. AZ 9-2-2015 Contaminated soil was found in 1992 during UST removal at this gas station. Free phase product was first detected in July 1999. The site was investigated in 1998 and 2012. Vapor extraction fluid recovery events were conducted periodically at the site until 2010. Free phase product has not been present at the site since 2009. In February 2014, DEC requested that a remedial strategy be evaluated to reduce petroleum contamination encountered in saturated soil. In June 2015, DEC approved the proposed anaerobic biological oxidation remedy but requested that a modified remedial plan be submitted which included designated injection points rather than utilizing the existing groundwater monitoring wells. A modified plan which proposed the

installation of five permanent injection points was submitted to DEC in 2015 and approved by DEC in July 2015. On August 31, 2015, DEC reviewed a report for this site dated July 15, 2015. According to this report the installation of five injection points is expected in the third quarter of 2015. AZ 10-9-2015 Reviewed a report dated April 29, 2015. Impact proposed to implement in-situ remedial approach utilizing injection of magnesium sulfate heptahydrate, commonly known as Epsom salt. Three soil borings will be advanced in the locations of the previously installed soil probes SP-1, SP-2 and SP-3.Soil samples will be collected. Based on the gw and soil results additional magnesium sulfate injections might be needed. Soil samples will be analyzed for geochemical parameters. 11-12-2015 I have contacted C. Camardella. Magnesium sulfate injection wells will be tentatively installed in November 2015. 8-16-2016 Reviewed a report dated February 7, 2016. On December 3, 2015. 1,111 gallons of a solution consisting of twenty percent magnesium sulfate heptahydrate, commonly known as Epsom Salt, was injected into five injection wells. Geochemical data will be collected. The highest dissolved VOC concentration was recorded in MW-2 (830.3 ppb). AZ 1-23-2017 Reviewed a report dated April 11, 2016, for the first Quarter of 2016, received on May 13, 2016. The highest dissolved VOC concentration was recorded in MW-3 (2,213 ppb). No free-phase product was detected. Monitoring wells TMW-1, TMW-2 and injection points IP-1 through IP-5 were inadvertently removed from the sampling program during the 1st quarter 2016 monitoring event. In order to determine the effectiveness of the Epson Salt injection, all monitoring wells and the injection points will be sampled. AZ 3-20-2018 I have contacted D. Peters over the phone to discuss a quarterly monitoring report for the 4th quarter 2017, issued on February 27, 2018, and received on March 19, 2018. Since this site still has LNAPL present, no closure request will be considered for this site. AZ 4-24-2017 Reviewed a report dated August 10, 2016, for the second Quarter of 2016. The highest dissolved VOC concentration was recorded in MW-3 (407 ppb). No free-phase product was detected. In order to determine the effectiveness of the Epson Salt injection, all monitoring wells and the injection points will be sampled. Geochemical data will be collected from all monitoring wells. AZ 4-27-2018 Reviewed a report dated December 19, 2017, for the first Quarter of 2017. The highest dissolved VOC concentration was recorded in MW-3 (603 ppb). No free-phase product was detected. Based on soil and groundwater results to date, IEC will make recommendations for additional remediation. AZ 5-29-2018 Reviewed a report dated December 22, 2017,

for the 2nd Quarter of 2017, received on January 11, 2018. The highest dissolved VOC concentration was recorded in IP-3 (192 ppb). MW-3 wasn't sampled for dissolved petroleum compounds due to the presence of free-phase product. Free-phase product was detected in monitoring well MW-3 at thickness of 0.05'. Based on soil and groundwater results to date, IEC will make recommendations for additional remediation. AZ 6-19-2018 Reviewed a report dated December 29, 2017, for the 3rd Quarter of 2017, received on January 22, 2018. The highest dissolved VOC concentration was recorded in MW-3 (21,709 ppb). The following e-mail was sent to Donald Peters and V. Brevdo: Dear Donald, I have reviewed a quarterly monitoring report for this site. The report stated that LNAPL was detected in MW-3 on August 10, 2017. The total dissolved VOC concentrations in MW-03 were 21,709 ppb in September 2017. Impact Environmental proposed a case closure for this spill. Based on the above information, this spill can t be

closed at this time. Sincerely, Alex Zhitomirsky - Engineering Geologist 2 NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101 Phone: 718.482.6387 - Fax: 718.482.6390 Email: alexander.zhitomirsky@dec.ny.gov 6-28-2018 The following e-mail was sent to D. Peters and V. Brevdo: Dear Donald, I have reviewed modified proposals for a pilot test submitted for the above site. The pilot test will utilize existing Point IP-2 to test bioaugmentation on the elevated BTEX concentrations in groundwater. A new injection well will be utilized to treat residual LNAPL and VOCs. These proposals are approved. The Responsible Party and its contractors are solely responsible for the safe execution of all invasive work performed at the site, and in particular, are responsible for identifying subsurface utilities and safeguarding the structural integrity of any excavations, buildings, utilities, and other structures both on- and off-site that may be adversely affected by the work. The Responsible Party and its contractors must obtain any local, state or federal permits or approvals that may be required to perform the work necessary to address this spill. Furthermore, the Responsible Party and its contractors are solely responsible for the implementation of all appropriate health and safety measures during the performance of this work. Sincerely, Alex Zhitomirsky - Engineering Geologist 2 NYS Department of Environmental Conservation 47-40 21st Street, Long Island City, NY 11101 Phone: 718.482.6387 - Fax: 718.482.6390 Email: alexander.zhitomirsky@dec.ny.gov 8-27-2018 Reviewed a report dated May 24, 2018, for the 1st Quarter of 2018, received on May 30, 2018. The highest dissolved VOC concentration was recorded in IP-2 (6,667 ppb). Free-phase product was detected in MW-3 on 12/6/17 at 0.02'. AZ 11-15-2018 Reviewed a report dated July 18, 2018, for the 2nd Quarter of 2018. Free-phase product was detected during the current monitoring period in MW-3 at a thickness of 0.02'. DEC approved in-Situ bioaugmentation pilot test in June 2018. IEC scheduled drilling of the proposed injection points and filled the necessary permits for the pilot test. AZ 12-7-2018 Reviewed a report dated July 18, 2018. In-Situ bioaugmentation pilot test was performed in August - September 2018. The thickness of LNAPL couldn't be determined due to fouling of the interface probe. AZ 7-30-2019 Reviewed a report dated May 8, 2019. Based on the March 15, 2019 analytical results, concentrations of VOC ranged from 1 ppb to 9, 923 ppb in MW-3. One GW sample from MW-3 will be analyzed for aerobic BTEX degrading bacteria by PHE enzyme analysis during next quarterly sampling event. Following evaluation, remedial options, including additional bio augmentation will be assessed. AZ "

Remarks: "DISCOVERED CONTAMINATED SOIL DURING EXCAVATION. STOCKPILED SOIL. WILL TEST AND REMOVE SOIL."

All Materials:

Site ID:	117493
Operable Unit ID:	969214
Operable Unit:	01
Material ID:	2106629
Material Code:	1213A
Material Name:	MTBE (methyl-tert-butyl ether)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	True

Site ID:	117493
Operable Unit ID:	969214
Operable Unit:	01
Material ID:	413091
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	-1.00
Units:	L
Recovered:	.00
Oxygenate:	True

Name:	SHELL SERV STA
Address:	3072 CROPSEY AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	1212990 / 2013-11-17
Facility ID:	1212990
Facility Type:	ER
DER Facility ID:	102204
Site ID:	476154
DEC Region:	2
Spill Cause:	Equipment Failure
Spill Class:	Not reported
SWIS:	2401
Spill Date:	2012-12-04
Investigator:	TJDEMEO
Referred To:	Not reported
Reported to Dept:	2012-12-04
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2012-12-04
Spill Record Last Update:	2014-05-06
Spiller Name:	PETER MISNUK
Spiller Company:	SHELL SERV STA
Spiller Address:	3072 CROPSEY AVE

Spiller Company:	999
Contact Name:	PETER MISNUK
DEC Memo:	"11/17/13 TJD Site inspection - Hurricane Sandy follow-up. Station is not in operation - caution tape wrapped around dispenser islands. Station appears vacant. Contact information posted on door as follows: Cropsey Avenue Gasoline Inc. (718-266-9817). Unkwown status. Search of UIS reveals open spill #9201799 at property currently managed by DEC project manager - Alex Zhitomirsky. Reported spill (1212990) is cross referenced to existing open spill and closed. 5-6-12 - Dupigny - Notes from Sangesland do we have a number for Shell Directly? EPA guy contact: Peter Misnuk (212) 637-4229 Brian: can you check what is happening at this shell station? Maybe problem has been fixed since the report(12-4-12) "
Remarks:	"during inspection alarm is active, no water in tanks"

All Materials:

Site ID:	476154
Operable Unit ID:	1225989
Operable Unit:	01
Material ID:	2223351
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Oxygenate:	Not reported

Name:	AMOCO GAS STATION
Address:	3072 CROPSEY AVE
City,State,Zip:	BROOKLYN, NY
Spill Number/Closed Date:	0202373 / 2002-07-17
Facility ID:	0202373
Facility Type:	ER
DER Facility ID:	102204
Site ID:	211177
DEC Region:	2
Spill Cause:	Abandoned Drums
Spill Class:	C3
SWIS:	2401
Spill Date:	2002-06-05
Investigator:	JBVOUGHT
Referred To:	Not reported
Reported to Dept:	2002-06-05
CID:	270
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	2002-06-05
Spill Record Last Update:	2004-10-18
Spiller Name:	ALI
Spiller Company:	AMOCO GAS STATION

Spiller Address:	3072 CROPSEY AV
Spiller Company:	001
Contact Name:	ALI
DEC Memo:	"Prior to Sept, 2004 data translation this spill Lead_DEC Field was VOUGHT 7/17/2002-VOUGHT-Drums on private property. Spill closed by Vought."
Remarks:	"caller has asked owner to remove drums and owner has refused. caller says that there are 4 or 5 55 gal drums. would like dec follow up"

All Materials:

Site ID:	211177
Operable Unit ID:	853215
Operable Unit:	01
Material ID:	520233
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	.00
Units:	G
Recovered:	.00
Oxygenate:	Not reported