

October 31, 2019

Mr. Travis Flora  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112-2716

**Reference:** **A. Dariano and Son**  
**638 Auzerais Avenue**  
**San Jose, CA**

**Subject:** **Remediation Progress Report – Third Quarter 2019**  
**SCCDEH Case #12-023**

Dear Mr. Flora:

Enclosed is GeoRestoration's Remediation Progress Report for the above-referenced site. The report contains a summary for the remedial activities to date. The site representative has reviewed the report and authorized submittal of the document.

If you have any questions or would like to discuss the site, please call me at (408) 779-5533.

Sincerely,

**GEORESTORATION, INC.**



Roger D. Dockter, P.G. #6152  
Professional Geologist

cc: File  
Ms. Barbara Dariano  
RDD:rd\0437 rpt.doc

**REMEDIATION PROGRESS REPORT  
THIRD QUARTER 2019  
638 AUZERAIS AVENUE  
SAN JOSE, CA**

**SCCDEH CASE # 12-023**

Prepared for:

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**October 31, 2019**

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## ACRONYMS AND ABBREVIATIONS

BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAP	Corrective Action Plan
CFM	cubic feet per minute
DPE	dual-phase extraction
EPA	United States Environmental Protection Agency
ft	foot or feet
ft/ft	feet per feet
GRI	GeoRestoration, Inc.
IRAP	Interim Remedial Action Plan
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
P.G.	Professional Geologist
POTW	publicly operated treatment work
ppmv	parts per million by volume
QA/QC	Quality Assurance/Quality Control
SCCDEH	Santa Clara County Department of Environmental Health
SCVWD	Santa Clara Valley Water District
SVE	soil vapor extraction
TD	total depth
TPHg	total petroleum hydrocarbons as gasoline
UST	underground storage tank
VOC	volatile organic compounds
µg/L	micrograms per liter

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## Remediation Progress Report Third Quarter 2019

**638 Auzerais Avenue  
San Jose, California**

**October 31, 2019**

### **1.0 INTRODUCTION**

This report documents remedial activities performed by GeoRestoration, Inc. (GRI) at the fuel-release site at 638 Auzerais Avenue in San Jose, CA (Figures 1 and 2). The field activities consisted of soil vapor extraction (SVE) to remove free product. These remedial activities were approved in the letters from the Santa Clara County Department of Environmental Health (SCCDEH) dated 2/13/18 and 8/20/18.

SVE restarted on 3/19/18 and is continuing by using short extraction periods as needed to remove free product when present in wells. Details of the activities are further discussed in Section 3.0 and data is presented in Appendix A.

#### **1.1. Site Location**

The subject site contains a commercial building and a parking lot. The site is located in a mixed use area of San Jose near the southern corner of Bird and Auzerais Avenues. Investigations at the site concluded that there is impact to the soil and groundwater from an underground fuel storage tank release.

#### **1.2. Site History**

##### Tank Removal

Two 550-gallon underground gasoline tanks were removed from the site in January 1989. Gasoline range hydrocarbons were reported to be present at concentrations requiring remediation. Soil samples collected below the removed tanks indicated that total petroleum hydrocarbons as gasoline (TPHg) impact was present at a concentration of 180 mg/kg below the western tank. The sample below the eastern tank did not contain a detectable concentration of gasoline (reported at <1 mg/kg TPHg). Soil with impact was excavated and a total of 3 cubic yards was reportedly removed (Chemist Enterprises, April 1994). Investigations at the site concluded that there is impact to the soil and groundwater from an underground fuel storage tank release. A number of wells were installed to investigate the fuel release.

##### Soil Boring and Well Installations

Monitoring wells and exploratory borings were completed at the site by Chemist Enterprises, later known as Environmental Testing and Management, to further define the extent of impact in the soil and groundwater. Well MW-1 was installed on 3/08/94. Samples were collected at 11, 21, and 31 feet bgs. The highest TPHg concentration in soil was in the sample collected at a depth of 21 feet

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which contained 1,900 mg/kg. TPHg was not detected in the sample from 11 feet, but was present at a concentration of 18 mg/kg in the sample from 31 feet. The initial groundwater sample collected from the well on 3/17/94 contained a high concentration of TPHg (140,000 µg/L). Benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reported at 23,000, 25,000, 3,100, and 17,000 µg/L, respectively. The depth to groundwater was reported at 32.40 feet (Chemist Enterprises, April 1994).

Wells MW-2 and MW-3 were installed on 1/30/97. Well MW-2 was north of the former tanks and well MW-3 was northwest of the former tanks. Soil samples were collected at a depth of 25 feet at both locations and did not contain a detectable concentration (above 1.0 mg/kg) of TPHg. Low concentrations of benzene and toluene were reported in the soil sample from well boring MW-3 at 0.0076 mg/kg and 0.010 mg/kg, respectively. Groundwater samples were collected from all three wells (MW-1, MW-2, and MW-3) on 3/25/97. Well MW-1 contained 86,000 µg/L TPHg and wells MW-2 and MW-3 contained 54 µg/L and 160 µg/L TPHg, respectively. Significant BTEX concentrations were again present in well MW-1. Groundwater from well MW-2 contained 6 µg/L xylenes, but no benzene, toluene, or ethylbenzene above the reporting limit of 0.5 µg/L. Well MW-3 contained 29 µg/L benzene and 2 µg/L xylenes, but no toluene or ethylbenzene above the reporting limit 0.5 µg/L. Based on well measurements made in February, March, and April 1997, the groundwater flow was reported to flow in a southerly direction at a gradient of 0.004 ft/ft (Environmental Testing and Management, 4/28/97).

Four soil borings were completed by Environmental Testing and Management in January 1998 to collect grab groundwater to the south and southwest of the former tanks. The borings and samples were designated B-4, B-5, B-6, and B-7. The groundwater samples collected from borings B-4 and B-6 contained detectable concentrations of TPHg, benzene, and xylenes. TPHg was reported at a concentration of 53 µg/L and 190 µg/L, respectively. The highest benzene concentration was in B-4 and was 4.3 µg/L.

In May 2001, wells MW-4 and MW-5 were installed south of the former tanks. Soil samples were collected at a depth of approximately 26 feet at both locations and did not contain a detectable concentration of TPHg (concentration <1.0 mg/kg) or BTEX (concentrations <0.005 mg/kg). Groundwater samples were not reported in the well installation report (Environmental Testing and Management, 6/13/01).

In August 2005, wells RW-6, RW-7, and RW-8 were installed around the location of well MW-1 to serve as recovery wells. Soil samples collected at a depth of 23.5 feet in RW-6 and RW-7 indicated TPHg was present at concentrations of 1,700 mg/kg and 480 mg/kg, respectively. Except for one additional sample in RW-6 at 28.5 feet with a TPHg concentration of 86 mg/kg, the remaining samples were less than 10 mg/kg at each location. Soil samples were not collected from well RW-8. Groundwater was encountered at a depth of approximately 29 feet, but was not sampled at the times the wells were installed.

GRI prepared an Interim Remedial Action Plan (IRAP) dated 4/09/09, which recommended additional soil investigation, well installations (if needed), and remediation using soil vapor extraction.

In November 2011, GRI collected additional soil samples to further delineate the extent of soil impacts. The results are summarized in the Additional Site Investigation Report dated 12/30/11. The results indicated that soil impacts above the water table were limited to one boring located within 10

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feet of the former UST locations. Two soil borings had detected concentrations of TPHg below the water table only, which appears to be associated with groundwater transport. Strong hydrocarbon odors were also noted in wet sand intervals at depths of 24 feet bgs or greater. The report recommended installing three additional extraction wells.

Extraction wells RW-9, RW-10, and RW-11 were installed on 3/27/12. Since the wells were located near previous soil borings no soil samples were collected. The initial groundwater samples collected on 4/02/12 from these wells contained significant dissolved hydrocarbon concentrations, ranging from 57,000 to 110,000 µg/L TPHg and 12,000 to 19,000 µg/L benzene. The well installation and initial groundwater sampling results are discussed in the Well Installation and Remediation Progress Report dated 4/19/12.

GRI prepared a Revised CAP dated 3/15/13, which recommended additional remediation using DPE. The Revised CAP was approved by SCCDEH in May 2013.

On 6/25/13, soil and groundwater sampling was completed at the site. Sixteen soil samples were collected to investigate the upper 10 feet of soil. Four grab groundwater samples were also collected. The results indicated that no soil impact in the upper 10 feet is present above reporting limits. The grab groundwater results indicate that impact has migrated to the northeastern side of the property and that significant concentrations were present in groundwater below the site building. The site investigation activities are discussed in the Additional Site Investigation Report dated 8/09/13.

Wells RW-12 through RW-15 were installed in March 2014. Wells RW-14 and RW-15 were installed in angled borings to reach locations of impacted groundwater beneath the building. TPHg was detected in the initial groundwater samples from wells RW-12 through RW-15 at concentrations ranging from 1,200 to 55,000 µg/L. Benzene was detected at concentrations ranging from 2.9 to 11,000 µg/L.

Well MW-16 was installed on 7/31 and 8/01/14. Benzene was detected in the initial groundwater sample from well MW-16 at 1.0 µg/L. No other analytes were detected at concentrations above laboratory reporting limits.

Permanent soil gas sample implants were installed on 9/11/14 as required by the Santa Clara County Department of Environmental Health (SCCDEH) workplan approval letter dated 6/25/14. No analytes were detected in any of the primary samples above reporting limits. The reporting limits (70 to 200 µg/m<sup>3</sup>) were low enough to compare to Low-Threat Closure Policy requirements. Although the SCCDEH requested seasonal soil gas sampling in the letter dated 6/25/14, the requirement was suspended when active remediation recommenced in November 2014.

Monitoring well MW-17 was installed on 4/22/16 and serves as a down gradient sampling point which is beyond the southeast edge of the hydrocarbon plume.

Groundwater monitoring occurs on a semi-annual basis. The most recent monitoring event occurred in May 2019.

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## **2.0 SITE DESCRIPTION**

The site previously contained two fuel USTs located near the center of the property. Currently, the site is entirely paved and contains one commercial building leased to two businesses. The seven monitoring wells are distributed to monitor perimeter locations of groundwater impact migration, except for well MW-1 which is located at the location of the former USTs. Ten recovery wells are located in the area with significant groundwater impact.

### **2.1. Topography**

Figure 1 presents a topographic map showing the site and the surrounding area. The site is a flat property located at approximately 103 feet above mean sea level.

### **2.2. Soil**

The soils at the site generally consist of silty to sandy clay to a depth of approximately 25 to 30 feet. Below a depth of 25 to 30 feet lie sands with layers of silty clay and sand and gravel, which were described as the first aquifer at the site. At approximately 39 to 40 feet below grade there are silts or silty to sandy clay.

The highest TPHg concentrations found in soil samples were collected at depths of 15 to 25 feet below grade near the removed tanks. Two soil borings (approximately 20 feet of the former UST locations) had detected concentrations of TPHg below the water table only, which appears to be associated with groundwater transport. The current low groundwater elevation is allowing extraction of contaminants from the exposed smear zone. Other soil samples collected at distances of 50 feet or greater from the former tanks do not contain significant concentrations of TPHg or BTEX.

### **2.3. Groundwater**

Water was encountered at depths of 29 to 34 feet during previous well installation projects and at 20 to 26 feet in some borings during the drilling activities in November 2011. During the most recent monitoring event (May 2019), depth to water was approximately 25 feet. Water level measurements from the groundwater monitoring program indicate that, although the gradient is fairly flat, the general groundwater flow has been predominantly to the southwest.

Groundwater has been significantly impacted by petroleum hydrocarbons in all directions within approximately 35 feet of the former underground tanks. Free-phase gasoline had been measured on the surface of the groundwater in wells MW-1, RW-6 through RW-11, RW-14, and RW-15. Prior to remedial efforts, the measured thickness of free product was up to 3.51 feet. After groundwater elevations rebounded from a period of low groundwater elevations (late 2014 to early 2016), free product has been measured in well RW-6 up to 5.34 feet, the thickest ever measured. Active remedial efforts have reduced dissolved phase concentrations and are currently removing free product from a small area near the removed tanks.

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## **3.0 REMEDIATION SUMMARY**

### **3.1. Vapor Extraction Test – October 2005**

A 1.25-hour vapor extraction test using a mobile SVE system was conducted on 10/03/05 on well RW-7. During the test, a vacuum pressure of 10 inches of mercury was maintained. Approximately 0.13 gallons of hydrocarbons were removed during the test period. The results indicated that SVE is effective at removing free-phase hydrocarbons from soil at the site.

### **3.2. Free Product Removal – August 2011 to February 2012**

Between 8/25/11 and 2/21/12, free product was removed from three recovery wells using a free product removal device (passive floating skimmer with a storage canister). The free product removal device was lowered into the well with product and allowed to fill over a period of time. The free product was then emptied into a properly labeled and grounded hazardous waste drum. When free product no longer entered the well, the device was moved to another well with free product. If free product returned to a well after removal, then the device was again placed in the well. Free product measurements are presented in Table A1 in Appendix A.

The drum containing waste gasoline was disposed as hazardous waste within the required 180 days for small quantity generators. During the period from 8/25/11 to 2/21/12, approximately 1.27 gallons of free product was removed from wells RW-6, RW-7, and RW-8 using the free product removal device.

### **3.3. Soil Vapor Extraction – June to August 2012**

On 6/27/12, a mobile DPE system capable of extracting at a maximum rate of 350 CFM was installed at the site. The system was operated in the SVE mode from 6/28/12 until 8/01/12. Wells RW-8 through RW-11 were used for extraction during the event.

Vapor Concentrations - Vapor concentrations from well groups ranged from 22 ppmv to 227 ppmv. At the end of operation on 8/01/12, the ground was yielding 80 ppmv from the four extraction wells (RW-8, RW-9, RW-10, and RW-11) with 10% dilution of the vapor stream.

Mass Removed - A total of 22.55 gallons of vapor phase mass (hydrocarbons) was removed and treated. The volume of air extracted from the ground containing the hydrocarbons was 8,873,460 cubic feet.

Treatment System Data - System data compiled during the extraction event in 2012 are presented in Table A2 in Appendix A.

Field Measurements - Measurements made in the field during this extraction event are presented in Appendix A.

Treated Vapor Discharge - Extracted vapor was treated and discharged per the requirements of Bay Area Air Quality Management District permit # 17310. Air samples were collected from the system within 24 hours of startup to meet the sampling requirements of the Air Board permit. Another

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sample was collected on 8/01/12 before a short DPE test was conducted. The laboratory results indicated compliance with the requirements of the permit to operate.

### **3.4. DPE Feasibility Test – August 2012**

On 8/01/12, a feasibility test was conducted using DPE on RW-8 for 1.8 hours. Approximately 15 gallons of water were extracted from RW-8 during the short DPE test and stored in a 55-gallon drum.

Vapor Concentrations - Vapor concentrations from well RW-8 ranged from 130 ppmv to 600 ppmv. At the end of test, the ground was yielding 363 ppmv with 5% dilution of the vapor stream.

Mass Removed - A total of 0.18 gallons of vapor phase mass (hydrocarbons) was removed and treated. The volume of air extracted from the ground containing the hydrocarbons was 18,759 cubic feet.

Treatment System Data - System data compiled during the DPE feasibility test is presented in Table A3 in Appendix A.

### **3.5. Free Product Removal – October 2012 to April 2013**

Free product removal using the free product removal device commenced again beginning 10/30/12 and continued until 4/08/13. A total of 1.66 gallons of free product was removed from wells RW-6, RW-7, RW-8, RW-9, and RW-11. The drum containing waste gasoline was disposed as hazardous waste within the required 180 days for small quantity generators.

### **3.6. Soil Vapor Extraction and Dual Phase Extraction – April 2013 to April 2014**

A mobile DPE system capable of extracting at a maximum rate of 350 CFM was installed at the site. The system was operated in the SVE mode from 4/23/13 through 5/16/13 to remove free product per the sites approved interim remedial action workplan. Wells RW-6 through RW-8 were used for extraction during SVE.

A temporary discharge (POTW) permit was obtained from the City of San Jose on 4/17/13. On 5/17/13, DPE was started after SCCDEH approval of the Revised CAP on 5/14/13. Wells MW-1 and RW-6 through RW-11 were used for extraction in various configurations.

The DPE system was shut down on 8/29/13 because the Tank Fund budget was exhausted. On 2/04/14, the Tank Fund approved a budget change request, allowing the DPE system to operate an additional four months. The City of San Jose granted an extension of the POTW permit due to the down time from August to February. However, the BAAQMD would not grant any exceptions due to the down time. Therefore, the mobile DPE system could only operate until 4/22/14 under the BAAQMD permit to operate for a portable system. Beginning 2/07/14 through 4/22/14, wells RW-6 through RW-11, RW-14, and RW-15 were used for extraction in various configurations.

Vapor Concentrations - Vapor concentrations from well groups ranged from 100 ppmv to 750 ppmv during SVE and 48 ppmv to 620 ppmv during DPE.

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Mass Removed – For the remediation period from April 2013 to April 2014, a total of 325.21 gallons of vapor phase mass (hydrocarbons) was removed and treated during this period of remediation. The volume of air extracted from the ground containing the hydrocarbons was 57,594,390 cubic feet.

Treatment System Data - System data compiled during this period of treatment system operation are presented in Table A4 and system influent concentrations are presented in a graph.

Field Measurements – Depth to water, free product thickness and radius of influence measurements made in the field are presented in Tables A8 and A9.

Treated Vapor Discharge - Extracted vapor was treated and discharged per the requirements of Bay Area Air Quality Management District permit # 17312. Air samples were collected from the system within 24 hours of startup to meet the sampling requirements of the Air Board permit. An additional air sample was collected when DPE resumed in February 2014. The laboratory results indicated compliance with the requirements of the permit to operate.

### **3.7. Free Product Removal – August 2014 to October 2014**

Free product removal using an absorbent sock commenced from wells MW-1 and RW-11 from 8/05/14 to 10/16/14. The absorbent sock removed the 0.04 feet of free product from wells MW-1 and RW-11. The volume of free product could not be measured from the absorbent sock and appeared to be a minimal amount.

### **3.8. Soil Vapor and Dual Phase Extraction – November 2014 to August 2015**

A mobile DPE system capable of extracting at a maximum rate of 350 CFM was installed at the site. The system was operated in the SVE mode beginning on 11/21/14. Wells RW-8 and RW-14 were used for extraction initially, and wells RW-9, RW-11, and RW-15 were added as needed to maximize removal efficiency. DPE (mainly using RW-9, along with RW-8, RW-11, and RW-15) was started on 5/07/15. SVE continued on other wells. Only 838 gallons of groundwater were extracted due to the low groundwater table, with the majority of the wells dry.

Vapor Concentrations - Vapor concentrations from well groups ranged from 219 ppmv to 1,300 ppmv during SVE. The vapor concentrations averaged 345 ppmv over the final two months, with the last reading at 294 ppmv.

Mass Removed – For the remediation period from 11/21/14 to 8/31/15, a total of 1,628 gallons of vapor phase mass (hydrocarbons) was removed and treated. The volume of air extracted from the ground containing the hydrocarbons was 80,688,438 cubic feet.

Treatment System Data - System data compiled during this period of treatment system operation are attached as Table A5 and system influent concentrations are presented in a graph.

Field Measurements - Table A8 presents depth to water and free product thickness measurements. Radius of influence measurements are presented in Table A9. On 2/06/15, influence was measured on wells RW-6, RW-7, RW-10, and RW-13 while extracting from wells RW-8 and RW-11. The calculated radii of influence ranged from 13 to 31 feet.

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Treated Vapor Discharge - Extracted vapor was treated and discharged per the requirements of Bay Area Air Quality Management District permit # 17312. Air samples were collected from the system within 24 hours of startup to meet the sampling requirements of the Air Board permit. The laboratory results indicated compliance with the requirements of the permit to operate.

### **3.9. Free Product Removal – November to December 2016**

Free product removal using the free product removal device recommenced from wells RW-6, RW-7, and RW-15 beginning on 11/14/16. Free product removal ceased on 12/19/16. The free product removal device removed a total of the 1.4 gallons of free product from wells RW-6, RW-7, and RW-15. The drum containing waste liquid gasoline will be properly disposed as hazardous waste.

### **3.10. Soil Vapor Extraction and Dual Phase Extraction – May to July 2017**

A mobile DPE system capable of extracting at a maximum rate of 350 CFM was installed at the site. The system was operated in the SVE mode from 5/08/17 through 5/19/17 to remove free product. Wells RW-6, RW-7, RW-11, RW-14, and RW-15 were used for extraction during SVE. The system operated in DPE mode from 5/19/17 to 7/11/17 and continued to remove any remaining free product as well as high dissolved phase concentrations.

Vapor Concentrations - Vapor concentrations from well groups ranged from 25 ppmv to 1,330 ppmv during SVE and from 21 ppmv to 902 ppmv during DPE.

Mass Removed – A total of 53.84 gallons of vapor phase mass (hydrocarbons) was removed and treated. The volume of air extracted from the ground containing the hydrocarbons was 20,940,810 cubic feet.

Treatment System Data - System data compiled during this period of treatment system operation are attached as Table A6 and system influent concentrations are presented in a graph.

Field Measurements - Table A8 presents depth to water and free product thickness measurements. Radius of influence measurements are presented in Table A9. No additional radius of influence measurements were collected during this event.

Treated Vapor Discharge - Extracted vapor was treated and discharged per the requirements of Bay Area Air Quality Management District permit # 17312. Air samples were collected from the system within 24 hours of startup to meet the sampling requirements of the Air Board permit. The laboratory results indicated compliance with the requirements of the permit to operate.

### **3.11. Vapor Extraction to Remove Free Product – March 2018 to Present**

A mobile SVE system capable of extracting at a maximum rate of 350 CFM was brought to the site as needed. The system was operated in the SVE mode beginning on 3/19/18 to remove free product. Wells RW-6 and RW-7 were used for extraction during SVE. Except for the initial three weeks of operation, SVE has only been operated for one to three days at a time to remove accumulated free product. Once free product was removed, GRI would shut down the system and conduct periodic measurements to determine when to redeploy the system. As approved by the SCCDEH, GRI mobilizes the SVE system for one to three days (or until free product is removed) when 2 to 3 feet of

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free product is measured in well RW-6. Over the period from 3/19/18 to 9/30/19, the system ran 35.22 days during five extraction events, based on hour meter readings, to complete free product removal.

Vapor Concentrations - Vapor concentrations from well groups ranged from 5 ppmv to 786 ppmv, with concentrations generally above 80 ppmv when free product was present and concentrations below 50 ppmv when free product was no longer present.

Mass Removed – During the period between 3/19/18 and 9/30/19, a total of 46.83 gallons of vapor phase mass (hydrocarbons) was removed and treated. Approximately 6.90 of the 46.83 gallons came from the most recent SVE operation from 9/20/19 to 9/23/19, which was after a 5-month free product accumulation period. The volume of subsurface air extracted containing the hydrocarbons was 12,526,110 cubic feet.

Treatment System Data - System data compiled during periodic treatment system operation are attached as Table A7 and system influent concentrations are presented in a graph. The table and graph present the following:

- System Data Summary: Readings collected during the operation of the treatment systems including vapor influent measurements, operating discharge temperature (stack temperature), vacuum, flow rate, hour meter readings, and which wells were used for extraction in a given period of time.
- Mass Removal Summary: Data and calculations for the HC vapor phase mass removed.
- HC Influent Concentration Plot: The field meter influent concentrations recorded during the extraction event.

Field Measurements - Table A8 presents depth to water and free product thickness measurements. Radius of influence measurements are presented in Table A9. No additional radius of influence measurements were collected during this extraction event period.

Treated Vapor Discharge - From 3/19/18 to 7/18/18, extracted vapor was treated and discharged per the requirements of Bay Area Air Quality Management District permit # 17310. Another system with Permit # 17312 was utilized for the SVE operation from 10/19/18 to 10/22/18, 1/11/19 to 1/14/19, 4/26/19 to 4/29/19, and 9/20/19 to 9/23/19. Air samples were collected from the system within 24 hours of startup to meet the sampling requirements of the Air Board permits. The laboratory results indicated compliance with the requirements of the permits to operate.

## **4.0 REMEDIATION PROGRESS**

As of 9/30/19, a total of 2,081.07 gallons of hydrocarbon mass has been removed through manual free product removal, SVE, and DPE. Much of the mass removal (1,628 gallons) occurred from November 2014 to August 2015 during a period of low groundwater elevations. A summary of hydrocarbon mass removed is presented in Table A10.

After the last manual free product removal event using a passive skimmer in late 2016, the SCCDEH agreed that manual free product removal was too inefficient and costly. GRI concluded that SVE and DPE would be most effective, but would only be used as needed to remove free product. If

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groundwater elevations drop significantly again, longer periods of SVE and DPE can be completed for additional mass removal. The SCCDEH concurred with this remedial approach.

Following the SVE event between November 2014 and August 2015, no free product was observed until November 2016 (15 months later). Since May 2016, groundwater elevations have returned to normal ranges, and free product has been measured more regularly, primarily in wells RW-6 and RW-7, indicating possible influence due to significant fluctuations in groundwater elevations. Additionally, free product was at its thickest ever measured in well RW-6 at 5.34 feet on 3/19/18. SVE is able to remove the free product fairly quickly, but free product returns in wells RW-6 and RW-7 in a few days after the system is shutdown for free product measurements. Measurements after March 2019 show the rate that free product buildup is beginning to decline.

In a letter dated 8/16/18, GRI proposed operating the SVE system for one to three days (or until free product is removed) whenever 2 to 3 feet of free product accumulates in wells. The SCCDEH approved that approach in a letter dated 8/20/18.

Dissolved phase concentrations have been significantly reduced as seen by recent (May 2019) dissolved phase concentrations in various wells. Table A11 compares the highest historical concentrations to the most recent concentrations. Except for well RW-12 and wells that currently contain free product, TPHg dissolved concentrations have been reduced from 70% to 100%. Well RW-12 contained its highest groundwater concentrations of TPHg and benzene during its most recent sample (November 2018). Benzene has been reduced from 70% to 100%, excluding well RW-12 and wells that have free product. The reductions achieved since the start of remediation (May 2017) are presented in Table A12. Except for wells RW-8 and RW-12, the TPHg concentration in other wells has been reduced from 94.1% to 100% and benzene has been reduced 94.9% to 100%. In well RW-8, the TPHg groundwater concentration has increased by 11.4% and the benzene concentration decreased by 7.7%. TPHg and benzene concentrations increased in well RW-12 by 30.5% and 107%, respectively. No extraction has been conducted on well RW-12. The increase in concentrations may be due to the accumulation of free product in nearby wells. Reductions in concentrations reflect changes in groundwater based on natural attenuation and/or active groundwater remediation (manual free product removal, SVE, and DPE).

## 5.0 CONCLUSIONS

Based on the remediation conducted thus far, the following conclusions are made:

- As of 9/30/19, a total of 2,081.07 gallons of hydrocarbon mass has been removed through manual free product removal, SVE, and DPE. Much of the mass removal (1,628 gallons) occurred from November 2014 to August 2015 during a period of low groundwater elevations.
- Free product continues to return in wells RW-6 and RW-7 more regularly since groundwater elevations are now within the normal range since May 2016. Measurements after March 2019 show the rate that free product returns is beginning to decline.
- Free product removal is continuing using SVE as needed when 2 to 3 feet of free product is measured in well RW-6.

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- Free product removal will be considered complete when free product does not return within at least 12 months of stopping SVE. If free product does not return, a request for site closure will be made. If free product returns, SVE will continue as needed.

## 6.0 CERTIFICATION

This report has been reviewed and approved by the responsible party. A copy of the transmittal letter is provided in Appendix B.

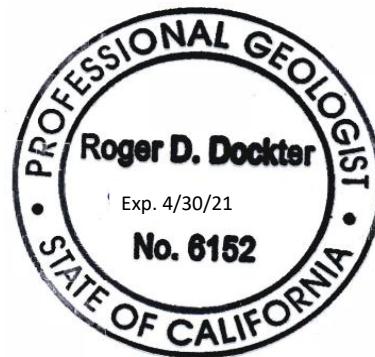
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a program designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the program, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**GeoRestoration, Inc.**



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Roger D. Dockter, P.G.  
Professional Geologist (CA# 6152)



## 7.0 DISTRIBUTION

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Travis Flora  
Santa Clara County Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112

## 8.0 REFERENCES

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GeoRestoration, Inc., *Well Installation Report for MW-17*, A. Dariano and Son, Inc., 638 Auzerais Ave, San Jose, CA 95126, Case No. 12-023, May 25, 2016.

## **9.0 LIMITATIONS**

This report is based upon a specific scope of work. The information, interpretations, conclusions, and recommendations contained in this report have been prepared in accordance with generally accepted professional engineering and geologic practices. Site conditions can vary from those encountered during the time and locations where data are obtained, which may result in some degree of uncertainty in the interpretation of these conditions. The services performed for the specific scope of work proposed were completed in a manner consistent with that level of care and skill ordinarily

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exercised by other professional environmental consultants. Changing conditions may lead to revisions of professional opinions, conclusions, and recommendations.

This report is intended only for the use of GRI's client and those listed in the distribution section of the report. GRI does not accept liability for unauthorized reliance or use by any other third party. GRI makes no expressed or implied warranty in regards to the contents of this report.

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## **TABLES**

**TABLE 1 – WELL CONSTRUCTION DETAILS**  
**A. Dariano and Son – 638 Auzerais Avenue, San Jose, CA**

Well I.D.	Well Type	SCVWD Permit #	Installation Date	Casing Diameter (Inches)	Borehole Depth (feet bgs)	Total Depth (feet)	Screened Interval (feet bgs)	TOC Elevation (feet MSL)	DTW (5/30/19) (feet btoc)	Top of Well Screen Submerged?
MW-1	Monitoring	94W00383	03/08/94	2	41	40	30–40	99.08	26.95**	Yes
MW-2	Monitoring	96W00943	01/30/97	2	41.5	41.5	25–40	98.59	24.56	Yes
MW-3	Monitoring	96W00944	01/30/97	2	40	40	23.5–38.5	99.02	25.01	No
MW-4	Monitoring	01W00018	05/07/01	2	40	40	25–40	99.20	25.52	No
MW-5	Monitoring	01W00017	05/08/01	2	41.5	41.5	25–40	99.24	25.22	No
RW-6	Monitoring/Recovery	05W00576	08/29/05	2	35	35	15–35	98.62	25.50**	No
RW-7	Monitoring/Recovery	05W00577	08/29/05	2	35	35	15–35	98.97	24.65**	No
RW-8	Monitoring/Recovery	05W00578	08/29/05	2	35	35	15–35	98.79	22.87	No
RW-9	Monitoring/Recovery	12W00090	03/27/12	2	40	40	15–40	98.99	23.70**	No
RW-10	Monitoring/Recovery	12W00091	03/27/12	2	35	35	15–35	98.77	17.07	No
RW-11	Monitoring/Recovery	12W00092	03/27/12	2	35	35	15–35	98.71	23.49	No
RW-12	Monitoring/Recovery	14W00089	03/12/14	2	40	40	20–40	97.56	24.62	No
RW-13	Monitoring/Recovery	14W00090	03/12/14	2	40	40	20–40	97.94	23.95	No
RW-14	Monitoring/Recovery	14W00092	03/14/14	2	50*	50*	30–50*	98.30	27.62	Yes
RW-15	Monitoring/Recovery	14W00091	03/14/14	2	50*	50*	30–50*	98.24	28.08	Yes
MW-16	Monitoring	14W00093	08/01/14	3/4	40	40	25–40	98.91	25.22	No
MW-17	Monitoring	C20160328002	04/22/16	2	45	45	25–45	98.97	25.21	No

Notes: \* wells constructed at a 60 degree angle from horizontal; depth and screen interval shown are measured distances in the borehole; wells terminate at approximately 40 feet bgs.

\*\* well contained free product; depth to water reported is below free product.

SCVWD Santa Clara Valley Water District

TOC top of casing

MSL mean sea level

DTW depth to water

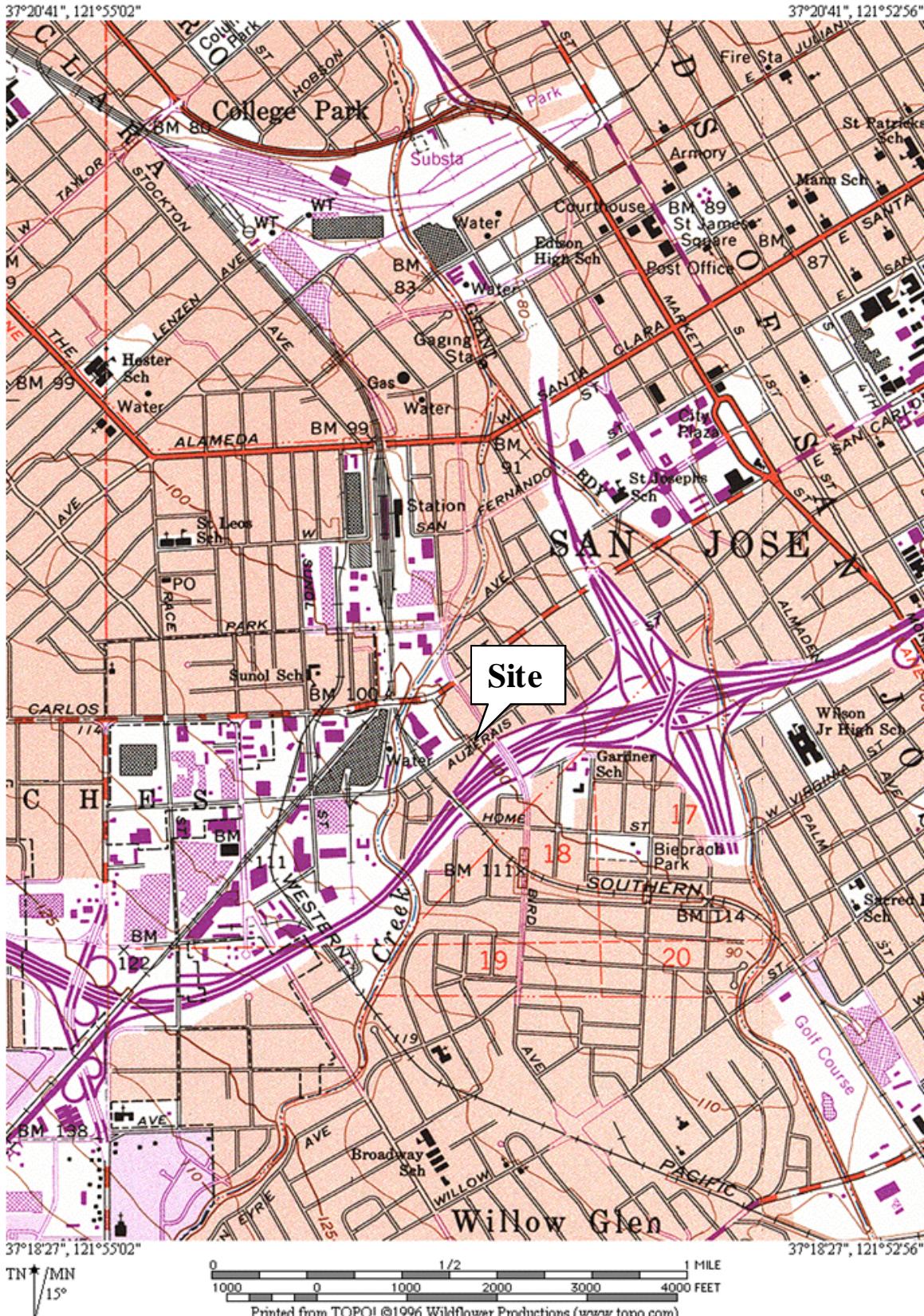
btoc below top of casing

NM not measured

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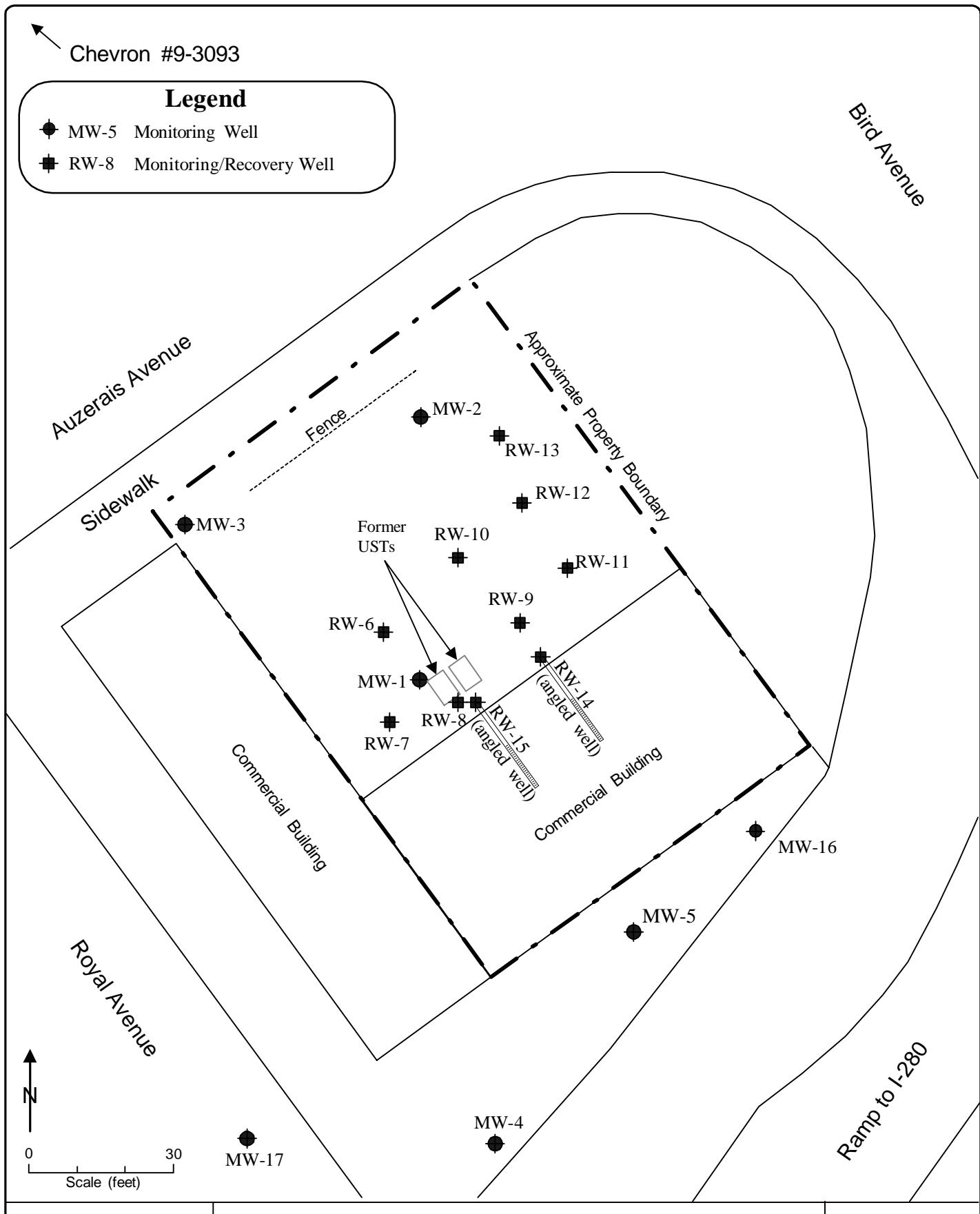
## **FIGURES**



**GeoRestoration, Inc.**  
16430 Monterey Road  
Suite 3  
Morgan Hill, CA 95037

**Topographic Map with Site Location**  
A. Dariano & Son  
638 Auzerais Avenue, San Jose, California

**FIGURE 1**  
Project #0437



**GeoRestoration, Inc.**  
16430 Monterey Road  
Suite 3  
Morgan Hill, CA 95037

**Site Map**  
A. Dariano & Son  
638 Auzerais Avenue, San Jose, California

**FIGURE 2**  
Project #0437

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## **APPENDICES**

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**APPENDIX A**

**Remediation Data**

**Table A1. Free Product Removal and Measurement Data**

A. Dariano and Son – 638 Auzerais Avenue, San Jose, CA

Product Collection Period			Product Removed		FP Thickness in Wells (feet)							
Well #	Start Date	End Date	Liters	Gallons	Date	MW-1	RW-6	RW-7	RW-8	RW-9	RW-10	RW-11
					5/23/12	0.02	0.05	0.03	0.00	0.09	0.00	0.13
					8/21/12*	0.00	0.61	0.00	0.00	0.45	0.01	0.42
					10/10/12	0.07	0.75	NM	0.08	0.36	0.03	0.45
RW-6	10/30/12	11/14/12	1.4	0.37								
RW-6	11/14/12	11/20/12	0.1	0.03								
RW-9	11/20/12	11/27/12	0.4	0.11	11/27/12	0.06	0.15	1.56	0.13	NM	0.00	0.50
RW-9	11/27/12	11/29/12	0.1	0.01								
RW-7	11/29/12	12/10/12	1.7	0.45								
RW-7	12/10/12	12/12/12	1.3	0.34								
RW-11	12/12/12	12/27/12	0.2	0.05								
RW-11	12/27/12	1/8/13	0.02	0.01	1/9/13	0.04	0.02	0.03	0.07	0.00	0.00	0.13
RW-11	1/8/13	1/21/13	0.20	0.05								
RW-11	1/21/13	1/25/13	0.01	0.00	1/25/13	0.04	0.05	0.07	0.06	0.00	0.00	0.01
RW-7	1/25/13	1/28/13	0.10	0.03								
RW-8	1/28/13	2/19/13	0.20	0.05	2/19/13	NM	0.05	0.04	0.00	0.00	0.00	0.05
RW-7	2/19/13	2/22/13	0.20	0.05								
RW-7	2/22/13	2/26/13	0.01	0.00								
RW-7	2/26/13	3/4/13	0.20	0.05								
RW-7	3/4/13	3/12/13	0.20	0.05								
RW-7	3/12/13	4/8/13	0.01	0.00	4/8/13	0.04	0.00	0.08	0.06	0.00	0.00	0.05
	Total Removed		6.30	1.66								
					5/28/13*	0.04	0.00	0.00	0.00	0.01	0	0.16
					7/18/13*	0.02	NM	NM	NM	NM	NM	NM
					8/14/13*	0.05	NM	NM	NM	NM	NM	NM
					9/16/13*	0.02	0.58	0.00	0.00	0.03	0.00	0.00
					11/11/13	0.16	0.65	0.20	0.00	0.30	0.00	0.00
					11/22/13	0.15	0.66	0.09	0.00	0.27	0.00	0.00



Extracting free product

Well rebound period

\* Free product removal by SVE or DPE



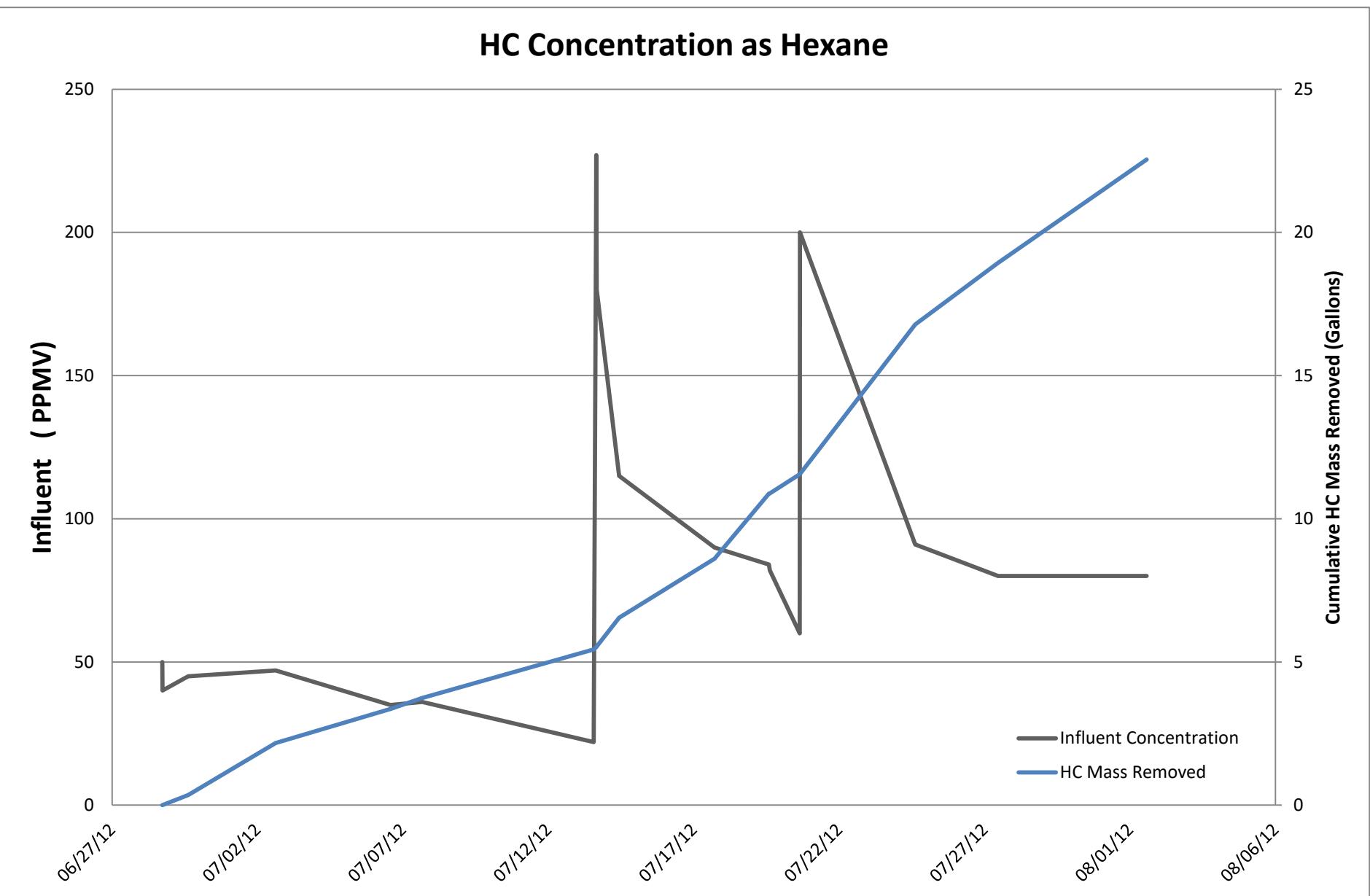
Product Collection Period			Product Removed	
Well #	Start Date	End Date	Liters	Gallons
RW-15	11/14/16		0.0020	0.00
RW-7	11/14/16		0.7500	0.20
RW-6	11/14/16		2.0000	0.53
RW-15	11/15/16		0.0005	0.00
RW-7	11/15/16		0.2500	0.07
RW-6	11/15/16		0.8000	0.21
RW-15	11/17/16		0.0020	0.00
RW-7	11/17/16		0.2500	0.07
RW-6	11/17/16		0.5000	0.13
RW-15	11/21/16		0.0020	0.00
RW-7	11/21/16		0.5000	0.13
RW-6	11/21/16		0.2500	0.07
RW-7	11/23/16		0.2500	0.07
RW-6	11/23/16		0.1500	0.04
RW-6	11/30/16		0.2500	0.07
RW-7	11/30/16		0.1500	0.04
RW-11	11/30/16		0.0400	0.01
RW-6	12/2/16		0.2000	0.05
RW-7	12/2/16		0.2000	0.05
RW-11	12/2/16		0.0020	0.00
RW-6	12/5/16		0.2000	0.05
RW-7	12/5/16		0.2000	0.05
RW-11	12/5/16		0.0020	0.00
RW-6	12/7/16		0.2000	0.05
RW-7	12/7/16		0.2000	0.05
RW-11	12/7/16		0.0020	0.00
RW-6	12/9/16		0.1800	0.05
RW-7	12/9/16		0.1000	0.03
RW-11	12/9/16		0.0020	0.00
RW-6	12/19/16		0.2500	0.07
RW-7	12/19/16		0.1800	0.05
RW-11	12/19/16		0.0020	0.00
				0.00
				0.00
				0.00
Total Removed			5.31	1.40

**Table A2. System and Mass Removal Summary (6/28/12–8/01/12 SVE Event)**

Dariano and Sons, 638 Auzerais Avenue, San Jose

Date	Time	HC Meter PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hour meter	"Hg	Extraction Point(s)	Throughput Cu ft	Percent Dilution	Stack Temp. (°F)
					0.00	0.00								
6/28/12	1730	50	180	25	1.44	0.23	0.0000	0.000	19583.4	6.0	RW-9,10	0		684
6/28/12	1740	40	180	45	2.59	0.41	0.0125	0.005	19583.7	6.0	RW-9,10	3240		709
6/29/12	1445	45	180	42.5	2.45	0.39	0.8875	0.348	19605.0	6.0	RW-9,10	230040		693
7/2/12	1455	47	190	46	2.80	0.45	4.0625	1.818	19702.5	6.0	RW-9,10	1111500		699
7/6/12	1345	35	190	41	2.49	0.40	2.9875	1.192	19774.2	6.0	RW-9,10	817380		683
7/7/12	1550	36	190	35.5	2.16	0.35	1.0875	0.376	19800.3	6.0	RW-9,10	297540		702
7/13/12	1330	22	190	29	1.76	0.28	6.0083	1.695	19944.5	6.0	RW-8	1643880		707
7/13/12	1525	203	170	112.5	6.12	0.98	0.0792	0.078	19946.4	8.2	RW-8,10	19380	20	717
7/13/12	1530	227	170	215	11.70	1.87	0.0042	0.008	19946.5	8.2	"	1020	20	724
7/13/12	1540	200	170	213.5	11.61	1.86	0.0042	0.008	19946.6	8.2	"	1020	20	731
7/13/12	1550	180	170	190	10.34	1.65	0.0083	0.014	19946.8	8.2	"	2040	20	728
7/14/12	1025	115	170	147.5	8.02	1.28	0.7833	1.006	19965.6	8.1	"	191760	20	715
7/17/12	1710	90	170	102.5	5.58	0.89	2.3125	2.063	20021.1	8.0	"	566100	20	700
7/19/12	1400	84	175	87	4.87	0.78	2.9125	2.270	20091.0	8.0	"	733950	20	716
7/19/12	1445	82	175	83	4.65	0.74	0.0125	0.009	20091.3	8.0	"	3150	20	723
7/20/12	1530	60	175	71	3.98	0.64	1.0417	0.663	20116.3	7.5	"	262500	15	710
7/20/12	1540	200	175	130	7.28	1.16	0.0083	0.010	20116.5	7.5	w RW-9,11	2100	10	754
7/24/12	1440	91	175	145.5	8.15	1.30	4.0083	5.226	20212.7	7.5	"	1010100	10	729
7/27/12	1100	80	170	85.5	4.65	0.74	2.8875	2.149	20282.0	8.0	"	706860	10	724
8/1/12	1345	80	170	80	4.35	0.70	5.1875	3.612	20406.5	8.0	"	1269900	10	732
												0		
Totals												34.30	22.55	8,873,460.00

## HC Concentration as Hexane



**Table A3. System and Mass Removal Summary (DPE Feasibility Test 8/01/12)**

Dariano and Sons, 638 Auzerais Avenue, San Jose

Date	Time	Meter In PPMv	CFM	PID Meter In/Eff PPMV	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water gals
					0.00	0.00					
8/1/12	1400	600	150		300	14.40	2.30	0.0000	0.000	20406.80	
8/1/12	1402	148	150		374	17.95	2.87	0.0017	0.005	20406.84	
8/1/12	1403	132	150		140	6.72	1.08	0.0004	0.000	20406.85	
8/1/12	1404	130	145		131	6.08	0.97	0.0008	0.001	20406.87	
8/1/12	1405	140	145		135	6.26	1.00	0.0004	0.000	20406.88	
8/1/12	1406	400	145		270	12.53	2.00	0.0008	0.002	20406.90	
8/1/12	1407	164	145		282	13.08	2.09	0.0008	0.002	20406.92	
8/1/12	1408	137	145		150.5	6.98	1.12	0.0008	0.001	20406.94	
8/1/12	1409	500	145		318.5	14.78	2.36	0.0004	0.001	20406.95	
8/1/12	1410	311	145		405.5	18.82	3.01	0.0008	0.003	20406.97	
8/1/12	1411	189	145		250	11.60	1.86	0.0008	0.002	20406.99	
8/1/12	1412	159	145		174	8.07	1.29	0.0004	0.001	20407.00	
8/1/12	1420	187	145		173	8.03	1.28	0.0063	0.008	20407.15	
8/1/12	1425	158	145		172.5	8.00	1.28	0.0042	0.005	20407.25	
8/1/12	1430	180	145		169	7.84	1.25	0.0021	0.003	20407.30	
8/1/12	1435	157	145		168.5	7.82	1.25	0.0196	0.024	20407.35	
8/1/12	1445	260	145		208.5	9.67	1.55	0.0063	0.010	20407.50	
8/1/12	1450	311	150		285.5	13.70	2.19	0.0042	0.009	20407.60	
8/1/12	1455	463	135		387	16.72	2.67	0.0042	0.011	20407.70	
8/1/12	1500	492	135		477.5	20.63	3.30	0.0021	0.007	20407.75	
8/1/12	1510	393	135		442.5	19.12	3.06	0.0063	0.019	20407.90	
8/1/12	1520	315	135		354	15.29	2.45	0.0083	0.020	20408.10	
8/1/12	1530	336	135		325.5	14.06	2.25	0.0083	0.019	20408.30	
8/1/12	1535	344	135		340	14.69	2.35	0.0021	0.005	20408.35	
8/1/12	1545	363	135		353.5	15.27	2.44	0.0063	0.015	20408.50	
8/1/12	1550	363	135		363	15.68	2.51	0.0042	0.010	20408.60	
Totals									0.09	0.18	15*

\* Water placed into a drum and volume estimated

## HC Concentration as Hexane

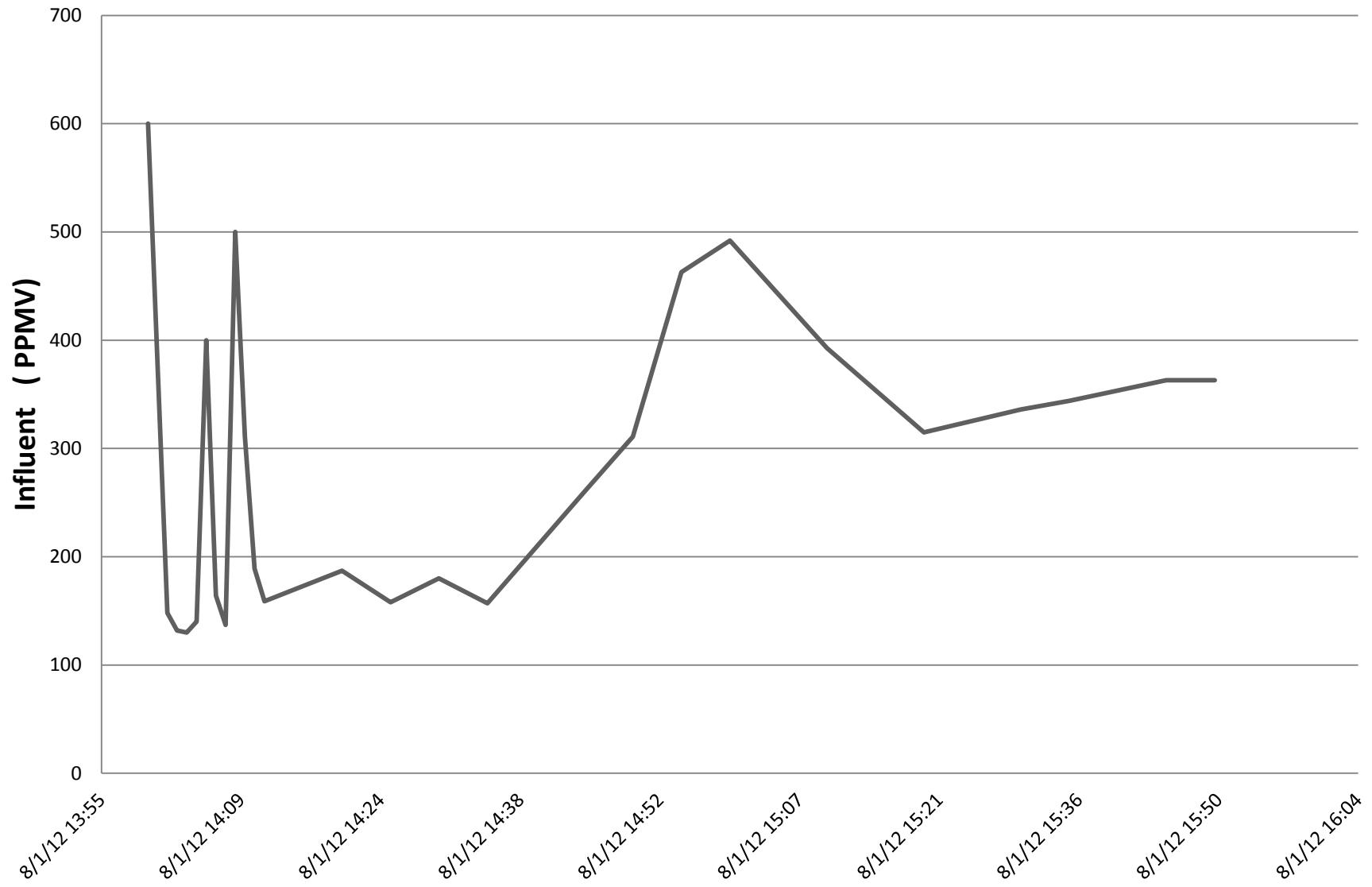


Table A4 System and Mass Removal Summary (4/23/13–4/22/14 SVE/DPE Event)

Dariano and Sons, 638 Auzerais Avenue, San Jose, CA

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6, 7, 8	04/23/13	1100	110	250		0.00	0.00			14558.1		1.0	610
RW-6, 7, 8	04/23/13	1115	750	200	430	27.52	4.40	0.0083	0.037	14558.3		8.5	770
RW-6, 7, 8	04/23/13	1120	621	200	685.5	43.87	7.02	0.0021	0.015	14558.4		8.5	751
RW-6, 7, 8	04/23/13	1125	387	200	504	32.26	5.16	0.0021	0.011	14558.4		8.5	701
RW-6, 7, 8	04/23/13	1130	351	200	369	23.62	3.78	0.0042	0.016	14558.5		8.5	688
RW-6, 7, 8	04/23/13	1145	329	200	340	21.76	3.48	0.0125	0.044	14558.8		8.0	697
RW-6, 7, 8	04/23/13	1200	299	200	314	20.10	3.22	0.0125	0.040	14559.1		8.0	710
RW-6, 7, 8	04/23/13	1215	298	200	298.5	19.10	3.06	0.0083	0.025	14559.3		8.0	702
RW-6, 7, 8	04/23/13	1245	282	200	290	18.56	2.97	0.0208	0.062	14559.8		8.0	708
RW-6, 7, 8	04/23/13	1315	280	205	281	18.43	2.95	0.0208	0.061	14560.3		8.0	705
RW-6, 7, 8	04/23/13	1445	200	205	240	15.74	2.52	0.0667	0.168	14561.9		8.0	770
RW-6, 7, 8	04/24/13	1110	183	205	191.5	12.56	2.01	0.8750	1.759	14582.9		8.0	699
RW-6, 7, 8	04/25/13	1350	168	210	175.5	11.79	1.89	1.1417	2.154	14610.3		8.0	699
RW-6, 7, 8	04/26/13	1400	150	210	159	10.68	1.71	1.0333	1.767	14635.1		8.0	706
RW-6, 7, 8	04/29/13	850	125	210	137.5	9.24	1.48	2.8667	4.238	14703.9		8.0	699
RW-6, 7, 8	05/03/13	1300	140	210	132.5	8.90	1.42	4.2917	6.114	14806.9		8.0	700
RW-6, 7, 8	05/06/13	1300	125	210	132.5	8.90	1.42	3.0833	4.393	14880.9		8.5	694
RW-6, 7, 8	05/09/13	1205	100	210	112.5	7.56	1.21	3.0792	3.725	14954.8		8.5	715
RW-6, 7, 8	05/14/13	1440	140	220	120	8.45	1.35	5.2000	7.029	15079.6		8.5	720
RW-6, 7, 8	05/15/13	1200	114	210	127	8.53	1.37	0.8667	1.183	15100.4		9.0	719
RW-6, 7, 8	05/17/13	930	113	205	113.5	7.45	1.19	1.9958	2.378	15148.3	7781986	9.0	717
RW-6, 7, 8	05/17/13	1300	418	200	265.5	16.99	2.72	0.1500	0.408	15151.9	7782190	11.0	796
RW-6, 7, 8	05/20/13	1340	146	200	282	18.05	2.89	3.1000	8.952	15226.3	7786926	10.0	723
RW-6, 7, 8	05/24/13	1150	160	200	153	9.79	1.57	4.0208	6.300	15322.8	7791530	10.2	723
RW-6, 7, 8	05/27/13	1640	160	200	160	10.24	1.64	3.2167	5.270	15400.0	7795210		
RW-6, 7, 8, 11(VE)	05/28/13	1450	262	190	211	12.83	2.05	0.0667	0.137	15401.6	7795210	10.2	745
RW-6, 7, 8, 11(VF)	05/29/13	1250	268	190	265	16.11	2.58	0.1750	0.451	15405.8	7795450	10.0	737
RW-6, 7, 8, 11(VE)	06/01/13	1020	251	210	259.5	17.44	2.79	0.0375	0.105	15406.7	7795450	10.0	738
RW-6, 7, 8, 11(VE)	06/03/13	520	251	210	251	16.87	2.70	1.7792	4.802	15449.4	7797470		
RW-6, 7, 8, 9, 11	06/03/13	1230	380	220	315.5	22.21	3.55	0.0625	0.222	15450.9	7797470	9.5	790
RW-6, 7, 8, 9, 11	06/03/13	1515	255	220	317.5	22.35	3.58	0.1417	0.507	15454.3	7797700	9.5	708
RW-6, 7, 8, 9, 11	06/07/13	1720	78	230	166.5	12.25	1.96	4.1500	8.137	15553.9	7802001	8.0	671
RW-6, 7, 8, 9, 11	06/11/13	1130	310	240	194	14.90	2.38	3.8500	9.178	15646.3	7804960	11.1	732
RW-6, 7, 8, 9, 11	06/14/13	1140	440	240	375	28.80	4.61	3.0875	14.227	15720.4	7810310	11.1	784
RW-6, 7, 8, 9, 10, 11	06/14/13	1220	315	250	377.5	30.20	4.83	0.0250	0.121	15721.0	7810420	10.0	740

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6 ,7, 8,9,10, 11	06/17/13	1400	170	250	242.5	19.40	3.10	3.1417	9.752	15796.4	7815410	10	699
RW-6 ,7, 8,9,10, 11	06/24/13	1130	185	220	177.5	12.50	2.00	7.0333	14.062	15965.2	7824121	11	724
RW-6 ,7, 8,9,10, 11	06/28/13	1230	180	220	182.5	12.85	2.06	4.1083	8.445	16063.8	7828680	10.8	705
RW-6 ,7, 8,9,10, 11	07/01/13	1450	120	220	150	10.56	1.69	3.1958	5.400	16140.5	7832610	10	702
RW-6 ,7, 8,9,10, 11	07/05/13	1415	128	220	124	8.73	1.40	4.0750	5.692	16238.3	7837255	10	703
RW-6 ,7, 8,9,10, 11	07/09/13	1130	130	220	129	9.08	1.45	3.9750	5.776	16333.7	7841830	10.2	708
RW-6 ,7, 8,9,10, 11	07/15/13	1400	130	205	130	8.53	1.36	6.1042	8.329	16480.2	7848630	10.5	698
RW-6 ,7, 8,9,10, 11	07/18/13	1230	145	200	137.5	8.80	1.41	2.9667	4.177	16551.4	7852080	11	701
RW-7, 9,10, 11	07/18/13	1400	120	220	132.5	9.33	1.49	0.0625	0.093	16552.9	7852080	10.0	700
RW-7, 9,10, 11	07/24/13	1130	100	220	110	7.74	1.24	6.0208	7.460	16697.4	7855690	10	696
RW-7, 9,10, 11	07/26/13	1000	91	220	95.5	6.72	1.08	1.9875	2.138	16745.1	7856920	10.0	695
RW-6, 7, 9,10, 11	07/26/13	1200	84	230	87.5	6.44	1.03	0.0792	0.082	16747.0	7856920	10.0	696
RW-6, 7, 9,10, 11	07/29/13	1230	140	200	112	7.17	1.15	3.0917	3.546	16821.2	7860480	10.0	703
RW-6 ,7, 8,9,10, 11	07/29/13	1330	160	205	150	9.84	1.57	0.0375	0.059	16822.1	7860480	11	709
RW-6 ,7, 8,9,10, 11	08/01/13	1145	140	205	150	9.84	1.57	3.0000	4.723	16894.1	7863830	11	698
RW-6 ,7, 8,9,10, 11	08/01/13	1300	215	200	177.5	11.36	1.82	0.0167	0.030	16894.5	7863830	11	700
RW-6 ,7, 8,9,10, 11	08/05/13	1430	100	220	157.5	11.09	1.77	3.1875	5.655	16971.0	7867200	10.5	690
RW-6 ,7, 8,9,10, 11	08/07/13	1530	90	220	95	6.69	1.07	2.0917	2.238	17021.2	7869380	10.5	705
RW-6 ,7, 8,9,10, 11	08/13/13	1300	70	220	80	5.63	0.90	6.0292	5.433	17165.9	7873880	10.2	704
MW-1,RW-6 ,7,10, 11	08/14/13	1100	70	220	70	4.93	0.79	0.9417	0.742	17188.5	7874600	10.2	704
MW-1,RW-6 ,7,10, 11	08/14/13	1145	174	220	122	8.59	1.37	0.0333	0.046	17189.3	7874600	10	638
MW-1,RW-6 ,7,10, 11	08/14/13	1230	90	220	132	9.29	1.49	0.0333	0.050	17190.1	7874740	10	646
MW-1,RW-6 ,7,10, 11	08/16/13	1050	55	220	72.5	5.10	0.82	1.9708	1.609	17237.4	7878680	10	704
MW-1,RW-6 ,7, 10	08/19/13	1230	60	220	57.5	4.05	0.65	3.0875	2.000	17311.5	7885252	10	706
MW-1,RW-6 ,7, 10	08/22/13	1015	55	220	57.5	4.05	0.65	2.9583	1.916	17382.5	7892160	10	703
MW-1,RW-6 ,7,9, 10,11	08/22/13	1115	90	220	72.5	5.10	0.82	0.0250	0.020	17383.1	7892290	10.5	701
MW-1,RW-6 ,7,9, 10,11	08/27/13	1400	48	220	69	4.86	0.78	5.2125	4.051	17508.2	7902680	10.5	696
MW-1,RW-6 ,7,9, 10,11	08/29/13	336			24	0.00	0.00	1.5667	0.000	17545.8	7902680		
System off					0	0.00	0.00	0.0000	0.000	17545.8	7902680		
System on	02/07/14												
RW-6,7	02/07/14	1300	163	205	81.5	5.35	0.86	0.0000	0.000	17545.8	7902680	9	675
RW-6,7	02/10/14	945	51	205	107	7.02	1.12	2.8542	3.205	17614.3	7902680	8	714
RW-6,7	02/14/14	1200	165	200	108	6.91	1.11	3.2750	3.622	17692.9	7902680	9	710
RW-6,7	02/15/14	930	131	200	148	9.47	1.52	0.9125	1.383	17714.8	7902680	9	712
RW-6,9,11	02/15/14	1430	207	195	169	10.55	1.69	0.0500	0.084	17716.0	7902680	9	721
RW-6,9,11	02/17/14	900	140	190	173.5	10.55	1.69	1.8167	3.066	17759.6	7902680	9.5	705
RW-7,9,11	02/21/14	830	143	190	141.5	8.60	1.38	4.0667	5.598	17857.2	7902680	10	709

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6,7,9,11	02/21/14	1440	376	200	259.5	16.61	2.66	0.2708	0.720	17863.7	7905730	12	749
RW-6,7,9,11	02/24/14	1500	172	190	274	16.66	2.67	3.0750	8.196	17937.5	7909050	11	706
RW-6,7,9,11	02/25/14	1300	165	190	168.5	10.24	1.64	0.9375	1.537	17960.0	7910060	11	705
RW-6,7,8,9,11	02/25/14	1315	145	190	155	9.42	1.51	0.0042	0.006	17960.1	7910060	11	700
RW-6,7,8,9,11	03/03/14	1445	145	190	145	8.82	1.41	6.1875	8.728	18108.6	7915960	11	711
RW-6,7,8,9,11	03/07/14	1300	135	190	140	8.51	1.36	4.0000	5.448	18204.6	7919130	11	696
RW-6,7,8,9,11	03/12/14	800	145	190	140	8.51	1.36	4.8500	6.605	18321.0	7922960	12	707
RW-6,7,8,9,11	03/13/14	845	126	190	135.5	8.24	1.32	1.1000	1.450	18347.4	7923960	11	706
RW-6,7,8,9,11	03/18/14	1200	120	190	123	7.48	1.20	5.2292	6.257	18472.9	7928170	11	693
RW-6,7,8,9,11	03/26/14	1655	160	180	140	8.06	1.29	8.3208	10.736	18672.6	7934270	13	674
RW-6,7,8,9,11	04/01/14	1400	211	180	185.5	10.68	1.71	5.9958	10.250	18816.5	7938320	13	698
RW-8,11,14,15	04/01/14	1515	255	180	233	13.42	2.15	0.0500	0.107	18817.7	7938320	13	709
RW-8,11,14,15	04/01/14	1555	294	180	274.5	15.81	2.53	0.0292	0.074	18818.4	7938320	12	687
RW-8,11,14,15	04/08/14	1030	155	180	224.5	12.93	2.07	6.9208	14.319	18984.5	7938570	12	689
RW-8,11,14,15	04/10/14	845	100	200	127.5	8.16	1.31	1.9625	2.562	19031.6	7938670	12	681
RW-8,11,14,15	04/15/14	1030	180	190	140	8.51	1.36	5.1792	7.054	19155.9	7938820	12	680
RW-8,11,14,15	04/18/14	1020	158	190	169	10.28	1.64	3.0667	5.042	19229.5	7938900	12	701
RW-8,11,14,15	04/18/14	1050	620	190	389	23.65	3.78	0.0208	0.079	19230.0	7940113	12	807
RW-8,11,14,15	04/22/14	1100	420	200	520	33.28	5.32	4.0417	21.521	19327.0	7940113	12	749
					210	0.00	0.00	0.0000	0.000				
					0	0.00	0.00	0.0000	0.000				
					0	0.00	0.00	0.0000	0.000				
System# 5		Trailer# 6						Totals		198.70	325.21	158127	

ppmv \* CFM \* 1440 min/day \*  $1 \times 10^{-6}$  \* 86 g/mole \* 1lb-mole/386 ft<sup>3</sup> = lbs/day

## HC Concentration as Hexane

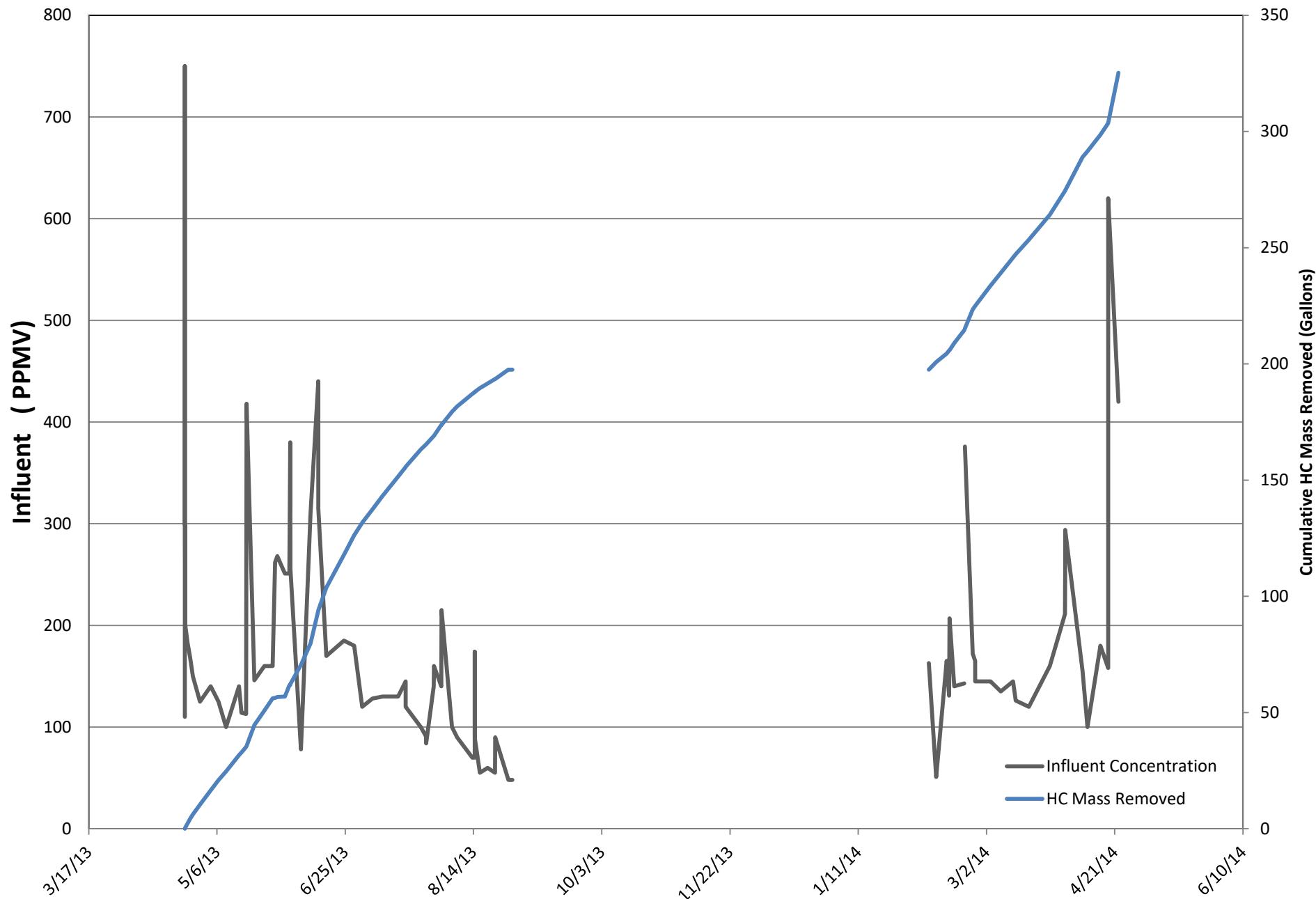


Table A5 System and Mass Removal Summary (11/21/14–8/31/15 SVE Event)

Dariano and Sons, 638 Auzerais Avenue, San Jose, CA

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW- 8, 14	11/21/14	1230	590	240		0.00	0.00			19888.3	7940119	1.0	700
RW- 8, 14	11/21/14	1330	595	240	592.5	45.50	7.28	0.0417	0.303	19889.3	7940119	1.0	710
RW- 8, 14	11/21/14	1530	600	240	597.5	45.89	7.34	0.0417	0.306	19890.3	7940119	1.0	718
RW- 8, 14	11/22/14	1415	440	240	520	39.94	6.39	0.9542	6.097	19913.2	7940119	1.0	704
RW- 8, 14	11/22/14	1420	640	240	540	41.47	6.64	0.0042	0.028	19913.3	7940119	1.0	743
RW- 8, 14	11/24/14	1330	219	240	429.5	32.99	5.28	2.0083	10.599	19961.5	7940119	1.0	645
RW- 8, 14	11/24/14	1335	695	260	457	38.02	6.08	0.0042	0.025	19961.6	7940119	1.5	677
RW- 8, 14	11/24/14	1340	680	260	687.5	57.20	9.15	0.0042	0.038	19961.7	7940119	1.5	760
RW- 8, 14	11/25/14	1030	400	260	540	44.93	7.19	0.8333	5.990	19981.7	7940119	1.5	709
RW- 8, 14	11/25/14	1035	875	260	637.5	53.04	8.49	0.0042	0.035	19981.8	7940119	1.5	809
RW- 8, 14	11/26/14	1250	600	255	737.5	60.18	9.63	1.1500	11.073	20009.4	7940119	1.5	753
RW- 8, 14	11/26/14	1300	750	250	675	54.00	8.64	0.0042	0.036	20009.5	7940119	1.5	783
RW- 8, 14	11/27/14	700	750	250	750	60.00	9.60	0.7667	7.360	20027.9	7940119		
RW- 8, 14	11/28/14	1400	940	250	845	67.60	10.82	0.0000	0.000	20027.9	7940119	1.5	777
RW- 8, 14	12/02/14	1000	550	250	745	59.60	9.54	3.7833	36.078	20118.7	7940119	1.5	667
RW- 8, 14	12/02/14	1030	869	250	709.5	56.76	9.08	0.0208	0.189	20119.2	7940119	2.0	797
RW- 8, 14	12/04/14	930	600	250	734.5	58.76	9.40	1.9792	18.607	20166.7	7940119	2.0	740
RW- 8, 14	12/04/14	935	808	255	704	57.45	9.19	0.0042	0.038	20166.8	7940119	3.0	802
RW- 8, 14	12/08/14	1045	500	255	654	53.37	8.54	4.0958	34.973	20265.1	7940119	3.0	733
RW- 8, 14	12/08/14	1050	1000	250	750	60.00	9.60	0.0042	0.040	20265.2	7940119	6.0	838
RW- 8, 14	12/10/14	1540	900	250	950	76.00	12.16	1.5750	19.152	20303.0	7940119	4.0	717
RW- 8, 14	12/14/14	1200	1177	250	1038.5	83.08	13.29	3.8470	51.137	20303.0	7940119	3.0	721
RW- 8, 14	12/18/14	1344	336	250	756.5	60.52	9.68	4.0743	39.452	20303.0	7940119	3.5	714
RW- 8, 14	12/20/14	1220	325	250	330.5	26.44	4.23	1.9750	8.355	20350.4	7940119	5.0	797
RW- 8,11,14,15	12/20/14	1300	825	250	575	46.00	7.36	0.0292	0.215	20351.1	7940119	5.0	797
RW- 8,11,14,15	12/22/14	1115	680	250	752.5	60.20	9.63	1.9333	18.622	20397.5	7940119	5.0	777
RW- 8,11,14,15	12/26/14	1558	490	250	585	46.80	7.49	4.2208	31.606	20498.8	7940119	5.0	745
RW- 8,11,14,15	12/27/14	2340	490	250	490	39.20	6.27	1.3208	8.284	20530.5	7940119		
RW- 8,11,14,15	12/29/14	1627	793	255	641.5	52.35	8.38	0.0125	0.105	20530.8	7940119	5.0	795
RW- 8,11,14,15	12/29/14	1632	722	255	757.5	61.81	9.89	0.0042	0.041	20530.9	7940119	5.0	791
RW- 8,11,14,15	12/29/14	2032	722	255	722	58.92	9.43	0.1292	1.218	20534.0	7940119		
RW- 8,11,14,15	01/03/15	1300	1272	255	997	81.36	13.02	0.0000	0.000	20534.0	7940119	5.0	852
RW- 8,11,14,15	01/04/15	430	850	255	1061	86.58	13.85	0.6458	8.946	20549.5	7940119		
RW- 8,11,14,15	01/05/15	1300	850	255	850	69.36	11.10	0.0000	0.000	20549.5	7940119	5.0	782
RW- 8,11,14,15	01/05/15	1330	1230	260	1040	86.53	13.84	0.0208	0.288	20550.0	7940119	7.0	873
RW- 8,11,14,15	01/06/15	530	1230	260	1230	102.34	16.37	0.6667	10.916	20566.0	7940119		

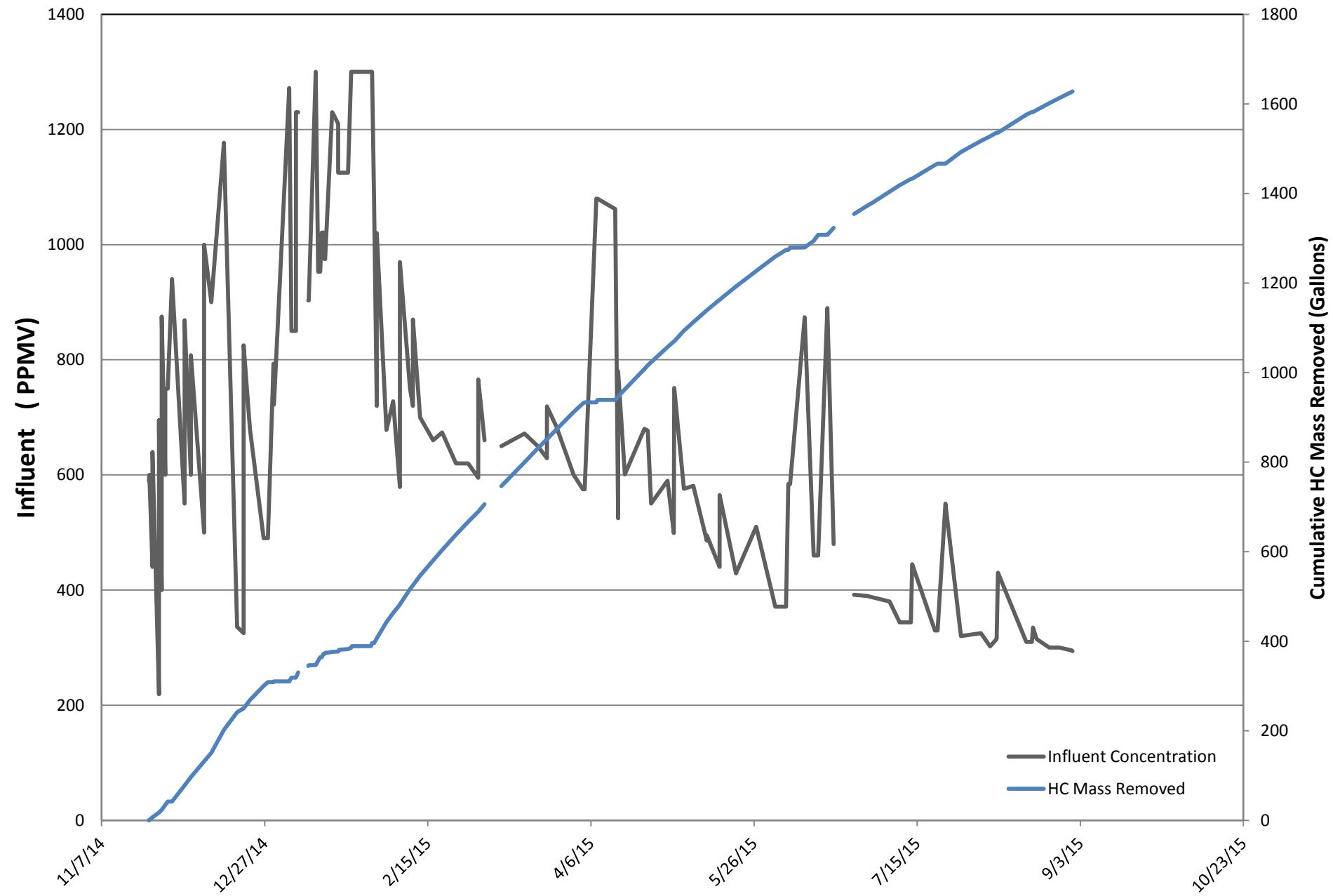
Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW- 8,11,14,15	01/09/15	830	903	260	1066.5	88.73	14.20	1.0500	14.907	20591.2	7940119	7	799
RW- 8,11,14,15	01/09/15	1130	903	260	903	75.13	12.02	0.1250	1.503	20594.2	7940119		
RW- 8,11,14,15	01/11/15	1500	1300	260	1101.5	91.64	14.66	0.0042	0.061	20594.3	7940119	7	868
RW- 8,11,14,15	01/12/15	830	953	260	1126.5	93.72	15.00	0.6542	9.810	20610.0	7940119	7	772
RW- 8,11,14,15	01/12/15	2330	953	260	953	79.29	12.69	0.6250	7.929	20625.0	7940119		
RW- 8,11,14,15	01/13/15	1115	1021	260	987	82.12	13.14	0.0042	0.055	20625.1	7940119	7	710
RW- 8,11,14,15	01/14/15	100	1021	260	1021	84.95	13.59	0.5583	7.589	20638.5	7940119		
RW- 8,11,14,15	01/14/15	925	975	260	998	83.03	13.29	0.0042	0.055	20638.6	7940119	7	812
RW- 8,11,14,15	01/14/15	1307	975	260	975	81.12	12.98	0.1542	2.001	20642.3	7940119		
RW- 8,11,14,15	01/16/15	1530	1230	260	1102.5	91.73	14.68	0.1250	1.835	20645.3	7940119	7	827
RW- 8,11,14,15	01/16/15	1630	1230	260	1230	102.34	16.37	0.0458	0.750	20646.4	7940119		
RW- 8,11,14,15	01/18/15	1200	1210	260	1220	101.50	16.24	0.0042	0.068	20646.5	7940119	7.0	851
RW- 8,11,14,15	01/18/15	1300	1125	260	1167.5	97.14	15.54	0.0417	0.648	20647.5	7940119	7.0	851
RW- 8,11,14,15	01/18/15	1842	1125	260	1125	93.60	14.98	0.2375	3.557	20653.2	7940119		
RW- 8,11,14,15	01/21/15	1300	1125	260	1125	93.60	14.98	0.1000	1.498	20655.6	7940119	7	817
RW- 8,11,14,15	01/22/15	1220	1300	260	1212.5	100.88	16.14	0.1875	3.026	20660.1	7940119	7	781
RW- 8,11,14,15	01/22/15	1720	1300	260	1300	108.16	17.31	0.2083	3.605	20665.1	7940119		
RW- 8,11,14,15	01/28/15	1330	1300	260	1300	108.16	17.31	0.0042	0.072	20665.2	7940119	7	851
RW- 8,11,14,15	01/28/15	2218	1300	260	1300	108.16	17.31	0.3875	6.706	20674.5	7940119		
RW- 8,11,14,15	01/29/15	1200	1076	260	1188	98.84	15.81	0.0042	0.066	20674.6	7940119	7	810
RW- 8,11,14,15	01/30/15	815	720	260	898	74.71	11.95	0.8875	10.609	20695.9	7940119	7	735
RW- 8,11,14,15	01/30/15	820	1020	270	870	75.17	12.03	0.0042	0.050	20696.0	7940119	10	778
RW- 8,11,14,15	02/02/15	807	678	270	849	73.35	11.74	3.0708	36.041	20769.7	7940119	10	729
RW- 8,11,14,15	02/04/15	940	728	270	703	60.74	9.72	2.1083	20.489	20820.3	7940119	10	730
RW- 8,11,14,15	02/06/15	1000	579	270	653.5	56.46	9.03	2.0625	18.633	20869.8	7940119	10	716
RW- 8,9,11,14,15	02/06/15	1042	970	245	774.5	60.72	9.72	0.0292	0.283	20870.5	7940119	12	793
RW- 8,9,11,14,15	02/09/15	1300	750	245	860	67.42	10.79	3.1667	34.161	20946.5	7940119	12	741
RW- 8,9,11,14,15	02/10/15	1030	720	245	735	57.62	9.22	0.9208	8.490	20968.6	7940119	12	733
RW- 8,9,11,14,15	02/10/15	1100	870	240	795	61.06	9.77	0.0125	0.122	20968.9	7940119	12	765
RW- 8,9,11,14,15	02/12/15	1500	700	240	785	60.29	9.65	2.2292	21.503	21022.4	7940119	12	720
RW- 8,9,11,14,15	02/16/15	1530	660	240	680	52.22	8.36	4.1125	34.363	21121.1	7940119	12	720
RW- 8,9,11,14,15	02/19/15	845	674	240	667	51.23	8.20	2.7833	22.812	21187.9	7940119	12	706
RW- 8,9,11,14,15	02/23/15	1500	620	240	647	49.69	7.95	4.3458	34.551	21292.2	7940119	12	707
RW- 8,9,11,14,15	02/27/15	830	620	240	620	47.62	7.62	3.7958	28.919	21383.3	7940119	12.5	706
RW- 8,9,11,14,15	03/02/15	1000	595	230	607.5	44.71	7.15	3.1333	22.416	21458.5	7940119	13	708
RW- 8,9,11,14,15	03/02/15	1045	766	235	680.5	51.17	8.19	0.0167	0.136	21458.9	7940119	13	768
RW- 8,9,11,14,15	03/04/15	915	660	230	713	52.48	8.40	1.9792	16.618	21506.4	7940119	13.5	711

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW- 8,9,11,14,15	03/09/15	1245	650	230	655	48.21	7.71	5.2083	40.173	21631.4	7940119	13.5	718
RW- 8,9,11,14,15	03/16/15	1420	672	220	661	46.53	7.45	7.1917	53.546	21804.0	7940119	13.5	693
RW- 8,9,11,14,15	03/20/15	1540	650	220	661	46.53	7.45	4.1208	30.682	21902.9	7940119	13.5	714
RW- 8,9,11,14,15	03/23/15	1150	629	220	639.5	45.02	7.20	2.8833	20.770	21972.1	7940119	13.5	701
RW- 8,9,11,14,15	03/23/15	1230	719	220	674	47.45	7.59	0.0208	0.158	21972.6	7940119	13.5	721
RW- 8,9,11,14,15	03/26/15	900	684	220	701.5	49.39	7.90	2.7042	21.368	22037.5	7940119	13.5	713
RW- 8,9,11,14,15	03/31/15	1630	600	220	642	45.20	7.23	5.3875	38.960	22166.8	7940119	13.5	687
RW- 8,9,11,14,15	04/03/15	1300	575	220	587.5	41.36	6.62	2.8833	19.081	22236.0	7940119	13.5	690
RW- 8,9,11,14,15	04/04/15	0135	575	220	575	40.48	6.48	0.4417	2.861	22246.6	7940119		
RW- 8,9,11,14,15	04/07/15	1530	1080	250	827.5	66.20	10.59	0.0042	0.044	22246.7	7940119	11.5	750
RW- 8,9,11,14,15	04/08/15	0030	1080	250	1080	86.40	13.82	0.3750	5.184	22255.7	7940119		
RW- 8,9,11,14,15	04/13/15	1045	1062	250	1071	85.68	13.71	0.0042	0.057	22255.8	7940119	11	781
RW- 8,9,11,14,15	04/14/15	830	525	250	793.5	63.48	10.16	0.7375	7.491	22273.5	7940119	11	667
RW- 8,9,11,14,15	04/14/15	831	780	225	652.5	46.98	7.52	0.0042	0.031	22273.6	7940119	13	700
RW- 8,9,11,14,15	04/16/15	830	601	225	690.5	49.72	7.95	2.0333	16.174	22322.4	7940119	13	718
RW- 8,9,11,14,15	04/22/15	850	680	225	640.5	46.12	7.38	6.1125	45.101	22469.1	7940119	13	712
RW- 8,9,11,14,15	04/23/15	950	677	225	678.5	48.85	7.82	1.0667	8.337	22494.7	7940119	13	713
RW- 8,9,11,14,15	04/24/15	1010	550	225	613.5	44.17	7.07	1.0125	7.156	22519.0	7940129	13	700
RW- 8,9,11,14,15	04/29/15	1110	590	225	570	41.04	6.57	5.1167	33.598	22641.8	7940129	13	707
RW- 8,9,11,14,15	05/01/15	1000	499	225	544.5	39.20	6.27	1.9750	12.388	22689.2	7940129	13	707
RW- 8,9,11,14,15	05/01/15	1200	751	240	625	48.00	7.68	0.0917	0.704	22691.4	7940129	13	757
RW- 8,9,11,14,15	05/04/15	1140	576	230	663.5	48.83	7.81	3.0125	23.538	22763.7	7940129	13	705
RW- 8,9,11,14,15	05/07/15	845	581	220	578.5	40.73	6.52	2.9167	19.006	22833.7	7940229	13	698
RW- 8,9,11,14,15	05/11/15	1245	486	230	533.5	39.27	6.28	4.2167	26.491	22934.9	7940229	15	692
RW- 8,9,11,14,15	05/11/15	1255	495	250	490.5	39.24	6.28	0.0042	0.026	22935.0	7940229	13	702
RW- 8,9,11,14,15	05/15/15	1045	440	250	467.5	37.40	5.98	3.9542	23.662	23029.9	7940229	13	720
RW- 8,9,11,14,15	05/15/15	1100	565	230	502.5	36.98	5.92	0.0042	0.025	23030.0	7940385	13	748
RW- 8,9,11,14,15	05/20/15	1115	429	230	497	36.58	5.85	5.0625	29.629	23151.5	7940385	14	715
RW- 8,9,11,14,15	05/26/15	1450	510	230	469.5	34.56	5.53	6.2167	34.371	23300.7	7940385	14	703
RW- 8,9,11,14,15	06/01/15	1230	371	240	440.5	33.83	5.41	5.9708	32.319	23444.0	7940503	13	701
RW- 8,9,11,14,15	06/04/15	1942	371	240	371	28.49	4.56	3.2958	15.025	23523.1	7940503		
RW- 8,9,11,14,15	06/05/15	1200	584	240	477.5	36.67	5.87	0.0042	0.024	23523.2	7940503	13	723
RW- 8,9,11,14,15	06/06/15	100	584	240	584	44.85	7.18	0.7208	5.173	23540.5	7940503		
RW- 8,9,11,14,15	06/10/15	1235	874	250	729	58.32	9.33	0.0042	0.039	23540.6	7940503	13	812
RW- 8,9,11,14,15	06/13/15	700	460	240	667	51.23	8.20	1.8208	14.924	23584.3	7940503	13	732
RW- 8,9,11,14,15	06/14/15	1500	460	240	460	35.33	5.65	2.3500	13.283	23640.7	7940503		
RW- 8,9,11,14,15	06/17/15	1050	890	240	675	51.84	8.29	0.0042	0.035	23640.8	7940503	13	741
RW- 8,9,11,14,15	06/19/15	850	480	230	685	50.42	8.07	1.9417	15.663	23687.4	7940503	13	725

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.		
RW- 8,9,11,14,15	06/25/15	1500	392	220	436	30.69	4.91	6.3542	31.206	23839.9	7940595	13	713		
RW- 8,9,11,14,15	06/29/15	1125	390	220	391	27.53	4.40	3.8917	17.140	23933.3	7940595	13	709		
RW- 8,9,11,14,15	07/01/15	1200	387	220	388.5	27.35	4.38	2.0500	8.971	23982.5	7940595	13	715		
RW- 8,9,11,14,15	07/06/15	1200	380	240	383.5	29.45	4.71	5.0000	23.562	24102.5	7940595	13	695		
RW- 8,9,11,14,15	07/09/15	1508	344	240	362	27.80	4.45	3.1958	14.216	24179.2	7940595	13	697		
RW- 8,9,11,14,15	07/13/15	100	344	240	344	26.42	4.23	3.3708	14.249	24260.1	7940595				
RW- 14,15	07/13/15	1030	445	240	394.5	30.30	4.85	0.0417	0.202	24261.1	7940595	13	700		
RW- 14,15	07/20/15	1030	330	220	387.5	27.28	4.36	7.0833	30.917	24431.1	7940595	13	720		
RW- 8,9,11,14,15	07/20/15	1045	330	220	330	23.23	3.72	0.0042	0.015	24431.2	7940595	13	710		
RW- 8,9,11,14,15	07/21/15	545	330	220	330	23.23	3.72	0.7958	2.958	24450.3	7940595				
RW- 8,9,11,14,15	07/23/15	1500	550	250	440	35.20	5.63	0.0083	0.047	24450.5	7940595	13	725		
RW- 8,9,11,14,15	07/28/15	1000	320	240	435	33.41	5.35	4.8542	25.947	24567.0	7940595	13	703		
RW- 8,9,11,14,15	08/03/15	1240	325	240	322.5	24.77	3.96	6.1625	24.421	24714.9	7940746	13	693		
RW- 8,9,11,14,15	08/06/15	745	302	240	313.5	24.08	3.85	2.8125	10.835	24782.4	7940746	13	699		
RW- 8,9,11,14,15	08/08/15	730	315	240	308.5	23.69	3.79	2.0125	7.629	24830.7	7940746	13	699		
RW- 8,9,11,14,15	08/08/15	1800	430	240	372.5	28.61	4.58	0.0042	0.019	24830.8	7940746	13	700		
RW- 8,9,11,14,15	08/17/15	1100	310	240	370	28.42	4.55	8.8208	40.104	25042.5	7940746	13	710		
RW- 8,9,11,14,15	08/19/15	300	310	240	310	23.81	3.81	1.6667	6.349	25082.5	7940746				
RW- 8,9,11,14,15	08/19/15	1130	335	240	322.5	24.77	3.96	0.0042	0.017	25082.6	7940746	13	711		
RW- 8,9,11,14,15	08/20/15	1455	315	240	325	24.96	3.99	1.1500	4.593	25110.2	7940746	13	710		
RW- 8,9,11,14,15	08/24/15	1055	300	240	307.5	23.62	3.78	3.8958	14.721	25203.7	7940746	12.5	722		
RW- 8,9,11,14,15	08/27/15	1245	300	240	300	23.04	3.69	3.1083	11.459	25278.3	7940746	12.5	724		
RW- 8,9,11,14,15	08/31/15	935	295	240	297.5	22.85	3.66	3.9000	14.257	25371.9	7940746	12.5	728		
RW- 8,9,11,14,15	08/31/15	1405	294	240	294.5	22.62	3.62	0.2708	0.980	25378.4	7940957	12.5	721		
					147	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
					0	0.00	0.00	0.0000	0.000						
System# 5	Trailer# 6											Totals	236.68	1628.00	838

ppmv \* CFM \* 1440 min/day \* 1X10<sup>-6</sup>\*86 g/mole \* 1lb-mole/386 ft<sup>3</sup> = lbs/day

## HC Concentration as Hexane



**Table A6 System and Mass Removal Summary (5/8/17–7/11/17 DPE Event)**

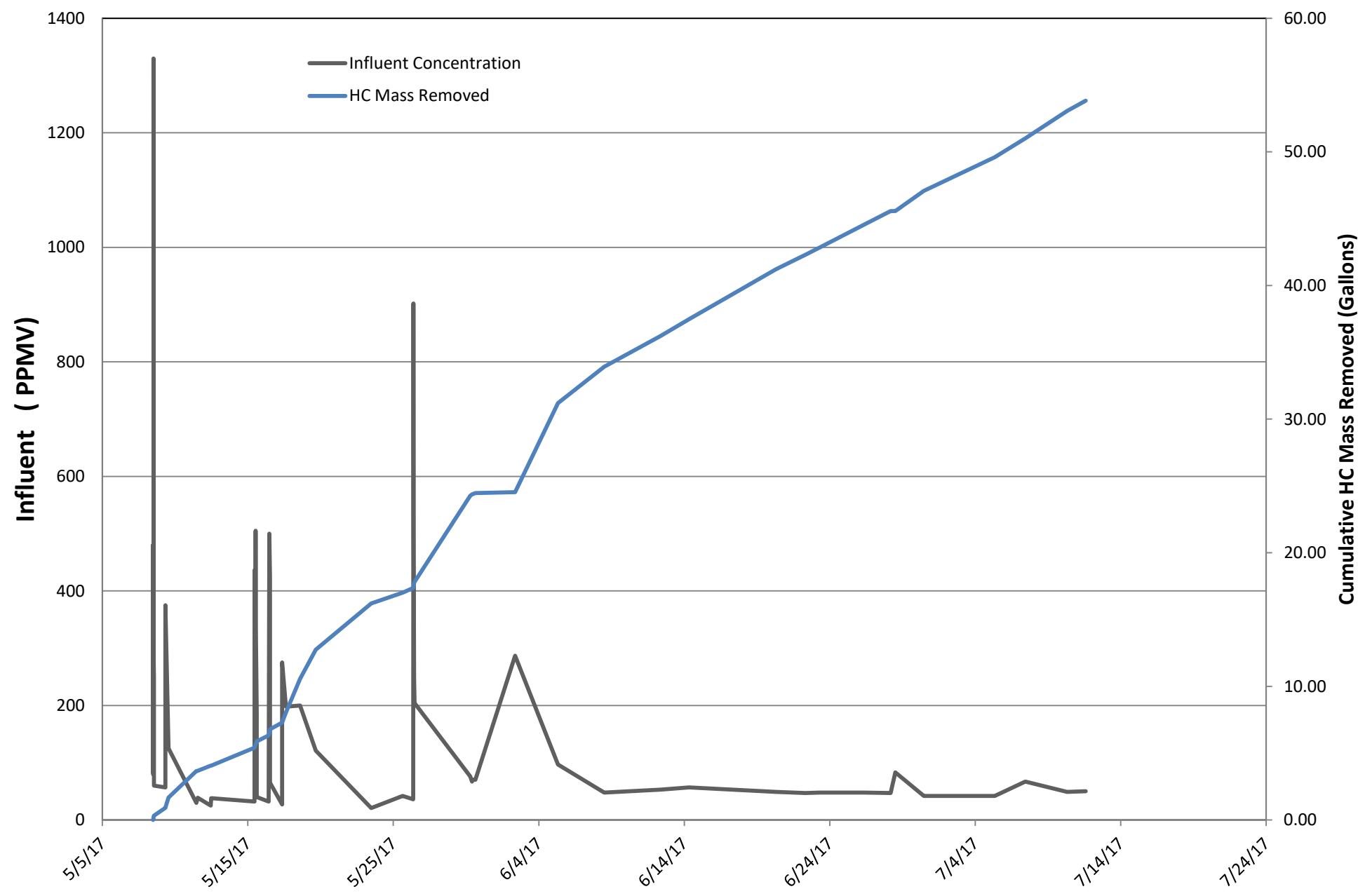
Dariano and Sons, 638 Auzerais Avenue, San Jose, CA

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6, 7	05/08/17	1127	80	240		0.00	0.00			25383.0		0.1	489
RW-6, 7	05/08/17	1130	350	240	215	16.51	2.64	0.0042	0.011	25383.1		0.1	520
RW-6, 7	05/08/17	1135	480	250	415	33.20	5.31	0.0021	0.011	25383.2		0.5	589
RW-6, 7	05/08/17	1140	210	250	345	27.60	4.42	0.0042	0.018	25383.3		3.0	543
RW-6, 7	05/08/17	1145	163	250	186.5	14.92	2.39	0.0021	0.005	25383.3		3.0	533
RW-6, 7	05/08/17	1200	100	250	131.5	10.52	1.68	0.0104	0.018	25383.6		3.0	511
RW-6, 7	05/08/17	1205	82	240	91	6.99	1.12	0.0063	0.007	25383.7		3.0	509
RW-6, 7	05/08/17	1212	133	260	107.5	8.94	1.43	0.0042	0.006	25383.8		3.0	594
RW-6, 7	05/08/17	1216	124	250	128.5	10.28	1.64	0.0008	0.001	25383.8		3.0	525
RW-6, 7	05/08/17	1223	565	250	344.5	27.56	4.41	0.0033	0.015	25383.9		3.0	817
RW-6, 7	05/08/17	1230	1330	250	947.5	75.80	12.13	0.0062	0.076	25384.1		3.0	804
RW-6, 7	05/08/17	1245	278	250	804	64.32	10.29	0.0104	0.107	25384.3		2.0	684
RW-6, 7	05/08/17	1300	248	260	263	21.88	3.50	0.0115	0.040	25384.6		2.0	653
RW-6, 7	05/08/17	1305	60	260	154	12.81	2.05	0.0015	0.003	25384.6		2.0	622
RW-6, 7	05/09/17	750	57	260	58.5	4.87	0.78	0.7662	0.597	25403.0		2.0	621
RW-6, 7	05/09/17	800	375	260	216	17.97	2.88	0.0021	0.006	25403.1		3.0	644
RW-6, 7, 14	05/09/17	1300	125	260	250	20.80	3.33	0.2271	0.756	25408.5		3.0	642
RW-6, 7, 14	05/11/17	1110	30	260	77.5	6.45	1.03	1.9250	1.986	25454.7		3.0	625
RW-6, 7, 11, 14, 15	05/11/17	1315	39	250	34.5	2.76	0.44	0.0542	0.024	25456.0		4.0	637
RW-6, 7, 11, 14, 15	05/12/17	1050	25	250	32	2.56	0.41	0.9083	0.372	25477.8		4.0	644
RW-6, 7, 11, 14, 15	05/12/17	1130	38	250	31.5	2.52	0.40	0.0208	0.008	25478.3		4.0	645
RW-6, 7, 11, 14, 15	05/15/17	1100	32	250	35	2.80	0.45	2.9792	1.335	25549.8		4.0	646
RW-6, 7, 11, 14, 15	05/15/17	1120	437	250	234.5	18.76	3.00	0.0167	0.050	25550.2		4.0	831
RW-6, 7, 11, 14, 15	05/15/17	1200	90	250	263.5	21.08	3.37	0.0250	0.084	25550.8		4.0	680
RW-6, 7, 11, 14, 15	05/15/17	1250	505	215	297.5	20.47	3.27	0.0417	0.136	25551.8		12.0	735
RW-6, 7, 11, 14, 15	05/15/17	1310	336	215	420.5	28.93	4.63	0.0042	0.019	25551.9		12.0	698
RW-6, 7, 11, 14, 15	05/15/17	1435	187	215	261.5	17.99	2.88	0.0625	0.180	25553.4		12.0	668
RW-6, 7, 11, 14, 15	05/15/17	1440	40	300	113.5	10.90	1.74	0.0042	0.007	25553.5		4.0	643
RW-6, 7, 11, 14, 15	05/16/17	1010	32	300	36	3.46	0.55	0.8125	0.449	25573.0		4.0	650
RW-6, 7, 11, 14, 15	05/16/17	1120	500	265	266	22.56	3.61	0.0458	0.165	25574.1		11.0	758
RW-6, 7, 11, 14, 15	05/16/17	1230	424	265	462	39.18	6.27	0.0458	0.287	25575.2		11.0	752
RW-6, 7, 11, 14, 15	05/16/17	1235	65	250	244.5	19.56	3.13	0.0042	0.013	25575.3		5.0	626
RW-6, 7, 11, 14, 15	05/17/17	830	27	250	46	3.68	0.59	0.8375	0.493	25595.4		5.0	626
RW-6, 7, 11, 14, 15	05/17/17	840	275	250	151	12.08	1.93	0.0042	0.008	25595.5		5.0	687

Extraction Point(s)	Date	Time	Meter	In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6,7,11,14,15	05/17/17	1440	198	250	236.5	18.92	3.03	0.2500	0.757	25601.5		5	682	
RW-6,7,11,14,15	05/18/17	1420	200	250	199	15.92	2.55	0.9875	2.515	25625.2		5	652	
RW-6,7,11,14,15	05/19/17	1600	121	250	160.5	12.84	2.05	1.0625	2.183	25650.7		5	644	
RW-6,7,11,14,15	05/23/17	1130	21	250	71	5.68	0.91	3.8042	3.457	25742.0	20	6	641	
RW-6,7,11,14,15	05/25/17	1525	42	230	31.5	2.32	0.37	2.1625	0.802	25793.9	20	6	640	
RW-6,7,11,14,15	05/26/17	840	36	250	39	3.12	0.50	0.7208	0.360	25811.2	20	5	649	
RW-6,7,11,14,15	05/26/17	910	902	235	469	35.27	5.64	0.0208	0.118	25811.7	20	12	861	
RW-6,7,11,14,15	05/26/17	935	500	235	701	52.72	8.43	0.0125	0.105	25812.0	125	12	733	
RW-6,7,11,14,15	05/26/17	1010	248	235	374	28.12	4.50	0.0292	0.131	25812.7	190	12.0	660	
RW-6,7,11,14,15	05/26/17	1050	204	235	226	17.00	2.72	0.0333	0.091	25813.5	254	12	669	
RW-6,7,11,14,15	05/30/17	700	76	235	140	10.53	1.68	3.8333	6.457	25905.5	6745	12.0	649	
RW-6,7,11,14,15	05/30/17	940	67	235	71.5	5.38	0.86	0.1125	0.097	25908.2	6940	12.0	650	
RW-6,7,9,11,14,15	05/30/17	945	70	230	68.5	5.04	0.81	0.0042	0.003	25908.3	6940	12.0	677	
RW-6,7,9,11,14,15	05/30/17	1515		230	35	2.58	0.41	0.2292	0.094	25913.8	7311	12	660	
RW-6,7,8,11,14,15	06/02/17	845	287	230	143.5	10.56	1.69	0.0375	0.063	25914.7	7381	13	702	
RW-6,7,8,11,14,15	06/05/17	735	97	230	192	14.13	2.26	2.9542	6.679	25985.6	12793	13	661	
RW-6,7,8,11,14,15	06/08/17	1150	48	230	72.5	5.34	0.85	3.1750	2.711	26061.8	18771	13	665	
RW-6,7,8,11,14,15	06/12/17	800	53	230	50.5	3.72	0.59	3.8292	2.277	26153.7	25415	13	663	
RW-6,7,8,11,14,15	06/14/17	745	57	230	55	4.05	0.65	1.9875	1.287	26201.4	29060	13	662	
RW-6,7,8,11,14,15	06/20/17	730	49	230	53	3.90	0.62	5.9917	3.740	26345.2	39270	13	664	
RW-6,7,8,11,14,15	06/22/17	735	47	220	48	3.38	0.54	2.0042	1.084	26393.3	42700	13	662	
RW-6,7,8,11,14,15	06/23/17	710	48	220	47.5	3.34	0.54	0.9792	0.524	26416.8	44370	13	661	
RW-6,7,8,11,14,15	06/26/17	820	48	230	48	3.53	0.57	3.0375	1.717	26489.7	48945	13	671	
RW-6,7,8,11,14,15	06/28/17	420	47	230	47.5	3.50	0.56	1.8250	1.021	26533.5	51728	13	670	
RW-6,7,8,11,14,15	06/28/17	1200	83	230	65	4.78	0.77	0.0042	0.003	26533.6	51728	13	681	
RW-6,7,8,11,14,15	06/30/17	1115	42	240	62.5	4.80	0.77	1.9792	1.520	26581.1	54228	13	673	
RW-6,7,8,11,14,15	07/05/17	820	42	240	42	3.23	0.52	4.8792	2.518	26698.2	60663	13	670	
RW-6,7,8,11,14,15	07/07/17	1040	67	240	54.5	4.19	0.67	2.0958	1.404	26748.5	63324	13	681	
RW-6,7,8,11,14,15	07/10/17	725	49	240	58	4.45	0.71	2.8708	2.046	26817.4	67193	13	672	
RW-6,7,8,11,14,15	07/11/17	1400	50	240	49.5	3.80	0.61	1.2750	0.776	26848.0	69038	13	670	
					25	0.00	0.00	0.0000	0.000					
					0	0.00	0.00	0.0000	0.000					
					0	0.00	0.00	0.0000	0.000					
Totals										61.04	53.84			
System# 5													69018	
Trailer# 6														

ppmv \* CFM \* 1440 min/day \* 1X10<sup>-6</sup>\*86 g/mole \* 1lb-mole/386 ft<sup>3</sup> = lbs/day

## HC Concentration as Hexane



**Table A7 System and Mass Removal Summary (3/19/18–Present SVE Event)**

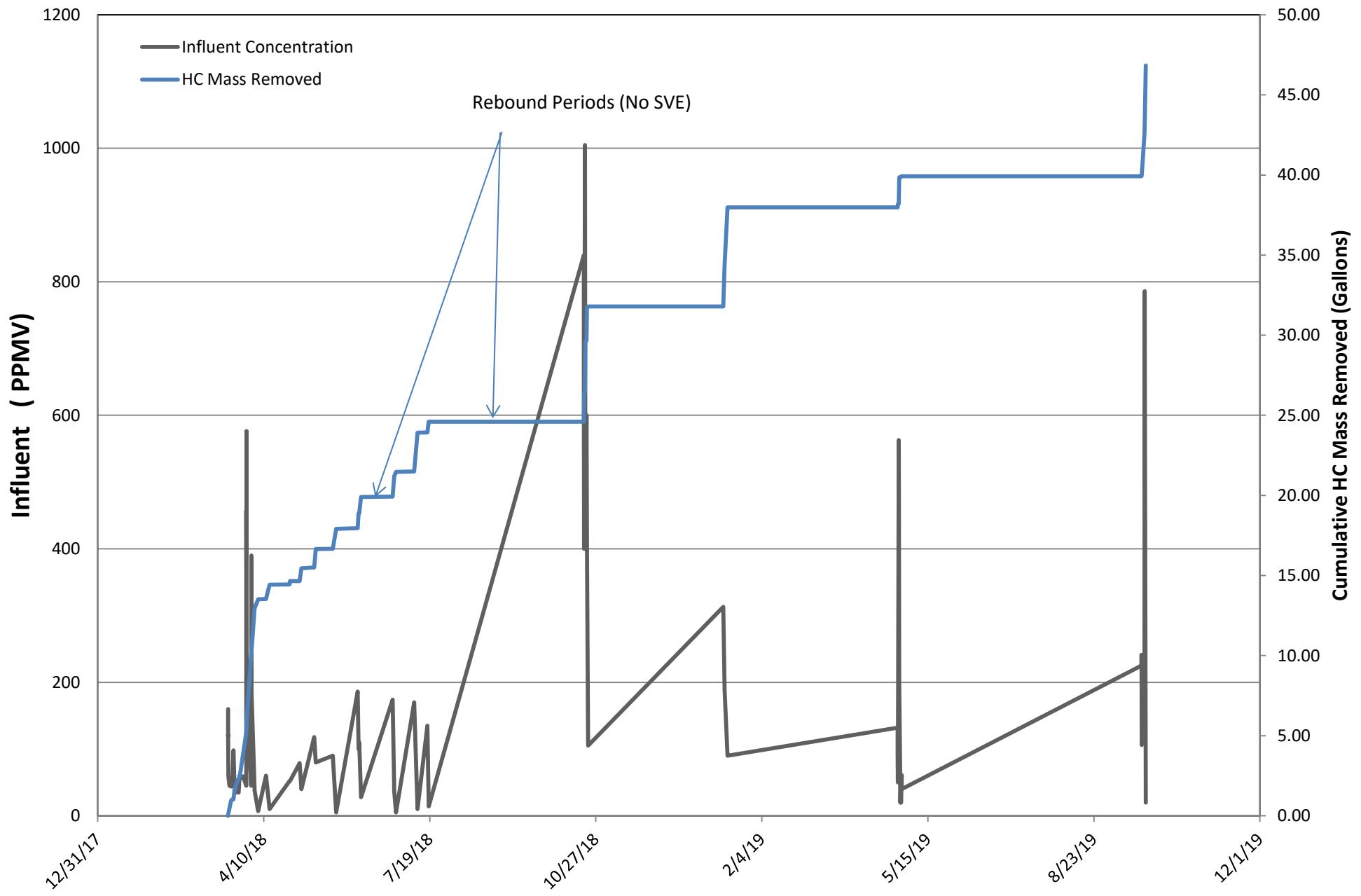
Dariano and Sons, 638 Auzerais Avenue, San Jose, CA

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6, 7	03/19/18	1250	160	200		0.00	0.00			34586.2		3.0	612
RW-6, 7	03/19/18	1300	158	200	159	10.18	1.63	0.0125	0.020	34586.5		3.0	648
RW-6, 7	03/19/18	1330	120	200	139	8.90	1.42	0.0208	0.030	34587.0		3.0	665
RW-6, 7	03/19/18	1400	122	200	121	7.74	1.24	0.0208	0.026	34587.5		3.0	665
RW-6, 7	03/19/18	1500	70	190	96	5.84	0.93	0.0417	0.039	34588.5		3.0	687
RW-6, 7	03/19/18	1555	60	190	65	3.95	0.63	0.0333	0.021	34589.3		3.0	697
RW-6, 7	03/20/18	800	45	190	52.5	3.19	0.51	0.6750	0.345	34605.5		3.0	709
RW-6, 7	03/20/18	1030	45	220	45	3.17	0.51	0.1042	0.053	34608.0		3.0	710
RW-6, 7	03/21/18	750	44	200	44.5	2.85	0.46	0.8833	0.403	34629.2		3.0	704
RW-6, 7	03/21/18	2220	<u>44</u>	200	44	2.82	0.45	0.1917	0.086	34633.8		3.0	<u>700</u>
RW-6, 7	03/22/18	1832	98	270	71	6.13	0.98	0.0042	0.004	34633.9		4.0	701
RW-6, 7	03/23/18	1240	35	260	66.5	5.53	0.89	0.7583	0.671	34652.1		4.0	682
RW-6, 7	03/25/18	2200	<u>35</u>	260	35	2.91	0.47	1.4042	0.654	34685.8		4.0	<u>680</u>
RW-6, 7	03/26/18	1014	60	260	47.5	3.95	0.63	0.0042	0.003	34685.9		4.5	672
RW-6, 7	03/26/18	1044	55	260	57.5	4.78	0.77	0.0167	0.013	34686.3		4.5	678
RW-6, 7	03/28/18	1300	59	250	57	4.56	0.73	2.0917	1.526	34736.5		4.5	747
RW-6, 7	03/30/18	1210	45	250	52	4.16	0.67	1.9667	1.309	34783.7		4.5	670
RW-6, 7	03/30/18	1215	457	250	251	20.08	3.21	0.0042	0.013	34783.8		5.0	670
RW-6, 7	03/30/18	1315	337	250	397	31.76	5.08	0.0417	0.212	34784.8		5.0	744
RW-6, 7	03/30/18	1415	576	250	456.5	36.52	5.84	0.0417	0.243	34785.8		5.0	850
RW-6, 7	03/30/18	1445	188	250	382	30.56	4.89	0.0250	0.122	34786.4		5.0	663
RW-6, 7	04/02/18	1200	45	250	116.5	9.32	1.49	2.8833	4.300	34855.6		5.0	714
RW-6, 7	04/02/18	1245	390	245	217.5	17.05	2.73	0.0208	0.057	34856.1		5.0	667
RW-6, 7	04/02/18	1300	190	245	290	22.74	3.64	0.0125	0.045	34856.4		5.0	660
RW-6, 7	04/04/18	1140	40	240	115	8.83	1.41	1.9417	2.744	34903.0		5.0	660
RW-6, 7	04/04/18	1200	38	240	39	3.00	0.48	0.0125	0.006	34903.3		5.0	761
RW-6, 7	04/06/18	1345	7	240	22.5	1.73	0.28	2.0792	0.575	34953.2		5.0	672
RW-6, 7	04/11/18	935	60	250	33.5	2.68	0.43	0.0167	0.007	34953.6		5.5	622
RW-6, 7	04/13/18	1200	10	240	35	2.69	0.43	2.1000	0.903	35004.0		5.5	736
RW-6, 7	04/25/18	1230	52	260	31	2.58	0.41	0.0250	0.010	35004.6		5.0	631
RW-6, 7	04/25/18	1945	<u>52</u>	260	52	4.33	0.69	0.3000	0.208	35011.8		5.0	<u>630</u>
RW-6, 7	05/01/18	1350	79	250	65.5	5.24	0.84	0.0083	0.007	35012.0		6.0	684
RW-6, 7	05/02/18	1500	40	250	59.5	4.76	0.76	1.0500	0.800	35037.2		7.0	677
RW-6, 7	05/10/18	930	118	250	79	6.32	1.01	0.0458	0.046	35038.3		6.0	615

Extraction Point(s)	Date	Time	Meter In PPMv	CFM	Avg PPMV	HC lbs/day	HC gal/day	Days	HC gals	Hr Meter	Water meter	"Hg	Stack Temp.
RW-6, 7	05/11/18	855	80	230	99	7.29	1.17	0.9833	1.146	35061.9		7.0	730
RW-6, 7	05/21/18	1320	90	260	85	7.07	1.13	0.0167	0.019	35062.3		5.0	615
RW-6, 7	05/23/18	1435	5	250	47.5	3.80	0.61	2.0542	1.249	35111.6		5.0	682
RW-6, 7	06/05/18	1505	186	250	95.5	7.64	1.22	0.0292	0.036	35112.3		5.5	677
RW-6, 7	06/06/18	305	<u>100</u>	250	143	11.44	1.83	0.5042	0.923	35124.4		5.5	<u>677</u>
RW-6, 7	06/06/18	1120	110	250	105	8.40	1.34	0.0125	0.017	35124.7		5.5	621
RW-6, 7	06/07/18	1445	28	250	69	5.52	0.88	1.1458	1.012	35152.2		5.5	706
RW-6, 7	06/26/18	1545	174	260	101	8.40	1.34	0.0167	0.022	35152.6		5.0	610
RW-6, 7	06/27/18	1420	37	250	105.5	8.44	1.35	0.9458	1.277	35175.3		5.0	696
RW-6, 7	06/28/18	1440	5	245	21	1.65	0.26	1.0125	0.267	35199.6		5.5	693
RW-6, 7	07/09/18	1410	170	255	87.5	7.14	1.14	0.0208	0.024	35200.1		5.0	651
RW-6, 7	07/11/18	1535	10	255	90	7.34	1.18	2.0583	2.419	35249.5		5.0	702
RW-6, 7	07/17/18	1445	135	250	72.5	5.80	0.93	0.0208	0.019	35250.0		5.0	612
RW-6, 7	07/18/18	750	14	250	74.5	5.96	0.95	0.7083	0.675	35267.0		5.0	712
RW-6, 7	10/19/18	1740	840	245		0.00	0.00			27712.2		1.0	784
RW-6, 7	10/19/18	1805	640	245	740	58.02	9.28	0.0208	0.193	27712.7		1.0	793
RW-6, 7	10/19/18	2347	<u>400</u>	245	520	40.77	6.52	0.2375	1.549	27718.4		1.0	<u>700</u>
RW-6, 7	10/20/18	940	1005	260	702.5	58.45	9.35	0.0125	0.117	27718.7		1.0	801
RW-6, 7	10/20/18	1740	<u>400</u>	260	702.5	58.45	9.35	0.3333	3.117	27726.7		1.0	<u>700</u>
RW-6, 7	10/21/18	1010	<u>600</u>	260	500	41.60	6.66	0.0125	0.083	27727.0		1.0	<u>700</u>
RW-6, 7	10/21/18	1740	<u>400</u>	260	500	41.60	6.66	0.3125	2.080	27734.5		1.0	<u>700</u>
RW-6, 7	10/22/18	730	105	260	252.5	21.01	3.36	0.0125	0.042	27734.8		1.0	675
RW-6, 7	01/11/19	1842	313	280	209	18.73	3.00	0.0000	0.000	27834.7		1.0	755
RW-6, 7	01/12/19	1215	188	280	250.5	22.44	3.59	0.7333	2.634	27852.3		1.0	707
RW-6, 7	01/14/19	710	90	280	139	12.45	1.99	1.7875	3.562	27895.2		1.0	705
RW-6, 7	04/26/19	1740	132	220	111	7.81	1.25	0.0000	0.000	29707.9		1.0	602
RW-6, 7	04/26/19	1755	90	215	111	7.64	1.22	0.0083	0.010	29708.1		1.0	631
RW-6, 7	04/26/19	2241	<u>50</u>	215	70	4.82	0.77	0.2458	0.189	29714.0		1.0	<u>650</u>
RW-6, 7	04/27/19	1000	563	210	306.5	20.60	3.30	0.0042	0.014	29714.1		1.0	829
RW-6, 7	04/27/19	1843	<u>200</u>	210	381.5	25.64	4.10	0.4042	1.658	29723.8		1.0	<u>750</u>
RW-6, 7	04/28/19	900	40	210	120	8.06	1.29	0.0042	0.005	29723.9		1.0	672
RW-6, 7	04/28/19	929	<u>20</u>	210	30	2.02	0.32	0.0208	0.007	29724.4		1.0	<u>620</u>
RW-6, 7	04/28/19	1535	60	210	40	2.69	0.43	0.0083	0.004	29724.6		1.0	694
RW-6, 7	04/28/19	1810	<u>20</u>	210	40	2.69	0.43	0.1000	0.043	29727.0		1.0	<u>650</u>
RW-6, 7	04/29/19	630	61	210	40.5	2.72	0.44	0.0083	0.004	29727.2		1.0	677
RW-6, 7	04/29/19	654	<u>40</u>	210	50.5	3.39	0.54	0.0208	0.011	29727.7		1.0	<u>670</u>



## HC Concentration as Hexane



**Table A8 – Depth to Groundwater**  
 Dariano and Sons, 638 Auzerais Avenue, San Jose

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
MW-1	8/21/12	26.94	-	0.00	NA	Free Product Measurement
RW-6	8/21/12	26.95	26.34	0.61	NA	Free Product Measurement
RW-7	8/21/12	26.62	-	0.00	NA	Free Product Measurement
RW-8	8/21/12	26.47	-	0.00	NA	Free Product Measurement
RW-9	8/21/12	27.02	26.57	0.45	NA	Free Product Measurement
RW-10	8/21/12	26.36	26.35	0.01	NA	Free Product Measurement
RW-11	8/21/12	26.56	26.14	0.42	NA	Free Product Measurement
MW-1	11/27/12	28.05	27.99	0.06	NA	2SA12 monitoring
RW-6	11/27/12	27.67	27.52	0.15	NA	2SA12 monitoring
RW-7	11/27/12	29.12	27.56	1.56	NA	2SA12 monitoring
RW-8	11/27/12	27.64	27.51	0.13	NA	2SA12 monitoring
RW-9	11/27/12	27.94	NM	-	NA	2SA12 monitoring
RW-10	11/27/12	27.46	-	0.00	NA	2SA12 monitoring
RW-11	11/27/12	27.73	27.23	0.50	NA	2SA12 monitoring
MW-1	4/23/13	27.15	NM	-		During SVE Start-up
MW-1	4/23/13	27.17	NM	-		During SVE Start-up
MW-1	4/24/13	27.18	NM	-		During SVE Start-up
RW-9	5/24/13	27.35	NM	-		During DPE
RW-10	5/24/13	26.89	NM	-		During DPE
MW-1	5/24/13	27.56	NM	-		During DPE
MW-3	5/24/13	27.33	NM	-		During DPE
MW-1	5/28/13	27.55	27.51	0.04		1SA13 monitoring
RW-6	5/28/13	27.04	-	0.00		1SA13 monitoring
RW-7	5/28/13	27.42	-	0.00		1SA13 monitoring
RW-8	5/28/13	27.87	-	0.00		1SA13 monitoring
RW-9	5/28/13	27.33	27.32	0.01		1SA13 monitoring
RW-10	5/28/13	26.91	-	0.00		1SA13 monitoring
RW-11	5/28/13	26.90	26.74	0.16		1SA13 monitoring
MW-1	7/18/13	28.48	28.46	0.02		Free Product Measurement
MW-1	8/14/13	29.13	29.08	0.05		Free Product Measurement

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
MW-1	9/16/13	29.82	29.80	0.02		Free Product Measurement
RW-6	9/16/13	29.98	29.40	0.58		Free Product Measurement
RW-7	9/16/13	30.25	-	0.00		Free Product Measurement
RW-8	9/16/13	28.90	-	0.00		Free Product Measurement
RW-9	9/16/13	29.53	29.50	0.03		Free Product Measurement
RW-10	9/16/13	16.50	-	0.00		Free Product Measurement
RW-11	9/16/13	29.31	-	0.00		Free Product Measurement
MW-1	11/11/13	30.99	30.83	0.16		Free Product Measurement
RW-6	11/11/13	30.91	30.26	0.65		Free Product Measurement
RW-7	11/11/13	31.35	30.15	0.20		Free Product Measurement
RW-8	11/11/13	30.26	-	0.00		Free Product Measurement
RW-9	11/11/13	30.85	30.55	0.30		Free Product Measurement
RW-10	11/11/13	28.66	-	0.00		Free Product Measurement
RW-11	11/11/13	30.16	-	0.00		Free Product Measurement
MW-1	11/22/13	31.10	30.95	0.15		2SA13 monitoring
RW-6	11/22/13	31.00	30.34	0.66		2SA13 monitoring
RW-7	11/22/13	31.04	30.95	0.09		2SA13 monitoring
RW-8	11/22/13	30.40	-	0.00		2SA13 monitoring
RW-9	11/22/13	30.97	30.70	0.27		2SA13 monitoring
RW-10	11/22/13	29.40	-	0.00		2SA13 monitoring
RW-11	11/22/13	30.17	-	0.00		2SA13 monitoring
RW-12	3/18/14	30.30	-	0.00		Sample new wells
RW-13	3/18/14	30.33	-	0.00		Sample new wells
RW-14	3/18/14	36.86*	-	0.00		Sample new wells
RW-15	3/18/14	37.07*	-	0.00		Sample new wells
RW-6	1/6/15	Dry				During SVE
RW-7	1/6/15	Dry				During SVE
RW-8	1/6/15	33.70				Under vacuum
RW-9	1/6/15	36.90				During SVE
RW-10	1/6/15	Dry				During SVE
RW-11	1/6/15	33.87				Under vacuum
RW-12	1/6/15	Dry				During SVE
RW-13	1/6/15	Dry				During SVE
RW-14	1/6/15	Dry				Under vacuum
RW-15	1/6/15	Dry				Under vacuum
MW-1	1/6/15	39.50				During SVE
MW-2	3/2/15	37.25				During SVE

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
RW-8	5/1/15	24.60			34.00	Start DPE
RW-11	5/1/15	24.20			34.00	Start DPE
MW-1	5/28/15	Dry	-	-		1SA15 monitoirng
MW-2	5/28/15	37.27	-	0.00		1SA15 monitoirng
MW-3	5/28/15	Dry	-	-		1SA15 monitoirng
MW-4	5/28/15	Dry	-	-		1SA15 monitoirng
MW-5	5/28/15	Dry	-	-		1SA15 monitoirng
RW-6	5/28/15	Dry	-	-		1SA15 monitoirng
RW-7	5/28/15	Dry	-	-		1SA15 monitoirng
RW-8	5/28/15	Dry	-	-		1SA15 monitoirng
RW-9	5/28/15	Dry	-	-		1SA15 monitoirng
RW-10	5/28/15	Dry	-	-		1SA15 monitoirng
RW-11	5/28/15	Dry	-	-		1SA15 monitoirng
RW-12	5/28/15	Dry	-	-		1SA15 monitoirng
RW-13	5/28/15	36.62	-	0.00		1SA15 monitoirng
RW-14*	5/28/15	NM	-	-		1SA15 monitoirng
RW-15*	5/28/15	Dry	-	-		1SA15 monitoirng
MW-16	5/28/15	Dry	-	-		1SA15 monitoirng
MW-1	11/19/15	37.41	-	0.00		2SA15 monitoring
MW-2	11/19/15	37.17	-	0.00		2SA15 monitoring
MW-3	11/19/15	Dry	-	-		2SA15 monitoring
MW-4	11/19/15	Dry	-	-		2SA15 monitoring
MW-5	11/19/15	Dry	-	-		2SA15 monitoring
RW-6	11/19/15	Dry	-	-		2SA15 monitoring
RW-7	11/19/15	Dry	-	-		2SA15 monitoring
RW-8	11/19/15	Dry	-	-		2SA15 monitoring
RW-9	11/19/15	36.67	-	0.00		2SA15 monitoring
RW-10	11/19/15	Dry	-	-		2SA15 monitoring
RW-11	11/19/15	Dry	-	-		2SA15 monitoring
RW-12	11/19/15	37.22	-	0.00		2SA15 monitoring
RW-13	11/19/15	36.22	-	0.00		2SA15 monitoring
RW-14*	11/19/15	Dry	-	-		2SA15 monitoring
RW-15*	11/19/15	46.21	-	0.00		2SA15 monitoring
MW-16	11/19/15	Dry	-	-		2SA15 monitoring

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
MW-1	2/11/16	34.69	-	0.00		
MW-2	2/11/16	34.25	-	0.00		
MW-3	2/11/16	34.65	-	0.00		
MW-4	2/11/16	34.77	-	0.00		
MW-5	2/11/16	35.86	-	0.00		
RW-6	2/11/16	Dry	-	-		
RW-7	2/11/16	Dry	-	-		
RW-8	2/11/16	Dry	-	-		
RW-9	2/11/16	34.95	-	0.00		
RW-10	2/11/16	Dry	-	-		
RW-11	2/11/16	Dry	-	-		
RW-12	2/11/16	33.48	-	0.00		
RW-13	2/11/16	33.67	-	0.00		
RW-14*	2/11/16	41.40	-	0.00		
RW-15*	2/11/16	41.15	-	0.00		
MW-16	2/11/16	NM	-	-		
MW-4	4/22/16	31.66				
MW-5	4/22/16	31.81				
RW-6	4/22/16	31.09				
RW-7	4/22/16	31.45				
RW-10	4/22/16	30.96			Hydrocarbon odor	
MW-1	5/3/16	31.26			1SA16 monitoring	
MW-2	5/3/16	30.78			1SA16 monitoring	
MW-3	5/3/16	31.16			1SA16 monitoring	
MW-4	5/3/16	31.39			1SA16 monitoring	
MW-5	5/3/16	31.57			1SA16 monitoring	
RW-6	5/3/16	30.79			1SA16 monitoring	
RW-7	5/3/16	31.14			1SA16 monitoring	
RW-8	5/3/16	31.30			1SA16 monitoring	
RW-9	5/3/16	31.03			1SA16 monitoring	
RW-10	5/3/16	30.73			1SA16 monitoring	
RW-11	5/3/16	30.86			1SA16 monitoring	
RW-12	5/3/16	29.70			1SA16 monitoring	
RW-13	5/3/16	30.12			1SA16 monitoring	
RW-14*	5/3/16	36.35			1SA16 monitoring	
RW-15*	5/3/16	36.31			1SA16 monitoring	
MW-16	5/3/16	31.63			1SA16 monitoring	
MW-17	5/3/16	31.15			1SA16 monitoring	

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
MW-1	5/3/17	25.16				1SA17 monitoring
MW-2	5/3/17	24.51				1SA17 monitoring
MW-3	5/3/17	24.92				1SA17 monitoring
MW-4	5/3/17	NM				1SA17 monitoring
MW-5	5/3/17	NM				1SA17 monitoring
RW-6	5/3/17	26.16	24.21	1.95		1SA17 monitoring
RW-7	5/3/17	25.77	24.99	0.78		1SA17 monitoring
RW-8	5/3/17	23.28				1SA17 monitoring
RW-9	5/3/17	24.10				1SA17 monitoring
RW-10	5/3/17	23.05				1SA17 monitoring
RW-11	5/3/17	24.09				1SA17 monitoring
RW-12	5/3/17	23.45				1SA17 monitoring
RW-13	5/3/17	23.79				1SA17 monitoring
RW-14*	5/3/17	27.95	27.90	0.05		1SA17 monitoring
RW-15*	5/3/17	28.53				1SA17 monitoring
MW-16	5/3/17	NM				1SA17 monitoring
MW-17	5/3/17	25.21				1SA17 monitoring
MW-1	5/30/17	NM				
MW-2	5/30/17	24.72				
MW-3	5/30/17	25.22				
MW-4	5/30/17	NM				
MW-5	5/30/17	NM				
RW-6	5/30/17	-			33.00	
RW-7	5/30/17	-			33.00	
RW-8	5/30/17	24.02				
RW-9	5/30/17	-			28.00	
RW-10	5/30/17	24.06				
RW-11	5/30/17	-			30.00	
RW-12	5/30/17	24.15				
RW-13	5/30/17	24.09				
RW-14*	5/30/17	-			30.00	
RW-15*	5/30/17	-			30.00	
RW-6	9/13/17			2.90		Free Product Measurement
RW-7	9/13/17			0.13		Free Product Measurement
MW-1	11/9/17	25.97				2SA17 monitoring
MW-2	11/9/17	25.40				2SA17 monitoring
MW-3	11/9/17	25.82				2SA17 monitoring
MW-4	11/9/17	26.24				2SA17 monitoring

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
MW-5	11/9/17	26.10				2SA17 monitoring
RW-6	11/9/17	28.34	24.64	3.70		2SA17 monitoring
RW-7	11/9/17	26.50	25.69	0.81		2SA17 monitoring
RW-8	11/9/17	24.18	Sheen			2SA17 monitoring
RW-9	11/9/17	25.36	Sheen			2SA17 monitoring
RW-10	11/9/17	23.67				2SA17 monitoring
RW-11	11/9/17	24.60				2SA17 monitoring
RW-12	11/9/17	24.59				2SA17 monitoring
RW-13	11/9/17	24.78				2SA17 monitoring
RW-14*	11/9/17	28.91				2SA17 monitoring
RW-15*	11/9/17	29.42				2SA17 monitoring
MW-16	11/9/17	26.53				2SA17 monitoring
MW-17	11/9/17	26.00				2SA17 monitoring
MW-1	1/17/18	25.84	Sheen			Hydrocarbon odor
MW-2	1/17/18	25.21				
MW-3	1/17/18	25.71				
MW-4	1/17/18	NM				
MW-5	1/17/18	NM				
RW-6	1/17/18	29.03	24.28	4.75		
RW-7	1/17/18	26.68	25.48	1.20		
RW-8	1/17/18	24.03	Sheen			Hydrocarbon odor
RW-9	1/17/18	25.10				Hydrocarbon odor
RW-10	1/17/18	22.96				
RW-11	1/17/18	24.51				
RW-12	1/17/18	24.32				
RW-13	1/17/18	24.66				
RW-14*	1/17/18	28.58				
RW-15*	1/17/18	29.19				
MW-16	1/17/18	NM				
MW-17	1/17/18	NM				
MW-3	3/19/18	25.65				
RW-6	3/19/18	29.11	23.77	5.34		
RW-7	3/19/18	26.62	25.06	1.56		
RW-10	3/19/18	22.60				Hydrocarbon odor
RW-13	3/19/18	24.82				
RW-6	3/20/18	28.90	23.90	5.00		
RW-6	3/26/18	26.70	23.50	3.20		

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
RW-6	3/28/18	26.70	23.40	3.30		
RW-6	4/4/18			0.01		
RW-7	4/4/18			0.01		
RW-6	4/11/18			0.25		After 4 days of rebound
RW-7	4/11/18			0.25		After 4 days of rebound
RW-6	4/25/18			0.53		After 12 days of rebound
RW-7	4/25/18			0.20		After 12 days of rebound
RW-6	5/1/18			0.58		
RW-7	5/1/18			0.25		
RW-6	5/10/18			0.63		After 8 days of rebound
RW-7	5/10/18			0.46		After 8 days of rebound
RW-6	5/11/18			0.0		
RW-7	5/11/18			0.0		
RW-6	6/5/18			0.29		After 13 days of rebound
RW-7	6/5/18			0.63		After 13 days of rebound
RW-6	6/26/18			1.08		After 19 days of rebound
RW-7	6/26/18			0.63		After 19 days of rebound
RW-6	7/9/18			0.50		After 11 days of rebound
RW-7	7/9/18			0.25		After 11 days of rebound
RW-6	8/15/18			1.66		After 28 days of rebound
RW-7	8/15/18			0.48		After 28 days of rebound
RW-6	9/28/18	28.72	25.19	3.53		After 72 days of rebound
RW-7	9/28/18	26.71	25.76	0.95		After 72 days of rebound
RW-6	11/9/18	27.13	26.05	1.08		After 18 days of rebound
RW-7	11/9/18	26.35	26.29	0.06		After 18 days of rebound
RW-6	11/14/18	27.40	26.07	1.33		After 23 days of rebound
RW-7	11/14/18	26.60	26.55	0.05		After 23 days of rebound
RW-9	11/14/18	26.29	26.12	0.17		

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.

Well #	Date	DTW (ft)	DTP (ft)	FP (ft)	Stinger Depth (ft)	Notes
RW-11	11/14/18	25.57	25.54	0.03		
RW-15	11/14/18	30.89	30.63	0.26		
RW-6	12/21/18			2.86		After 60 days of rebound
RW-7	12/21/18			0.46		After 60 days of rebound
MW-1	1/11/19	26.58				After 81 days of rebound
RW-6	1/11/19	28.48	25.34	3.14		After 81 days of rebound
RW-7	1/11/19	26.75	26.00	0.75		After 81 days of rebound
RW-8	1/11/19	25.10				After 81 days of rebound
RW-9	1/11/19	25.44	25.21	0.23		After 81 days of rebound
RW-11	1/11/19	25.19	25.16	0.03		After 81 days of rebound
RW-15	1/11/19	30.03	29.93	0.10		After 81 days of rebound
RW-6	2/11/19	26.62	25.47	1.15		After 28 days of rebound
RW-7	2/11/19	26.30	25.85	0.45		After 28 days of rebound
RW-9	2/11/19	25.19	25.00	0.19		After 28 days of rebound
RW-11	2/11/19	24.93	24.92	0.01		After 28 days of rebound
RW-15	2/11/19	29.60	29.55	0.05		After 28 days of rebound
RW-6	3/1/19	25.59	24.69	0.90		After 46 days of rebound
RW-7	3/1/19	25.32	25.11	0.21		After 46 days of rebound
RW-9	3/1/19	24.62	24.52	0.10		After 46 days of rebound
RW-11	3/1/19	24.04	24.03	0.01		After 46 days of rebound
RW-15	3/1/19	25.54	25.48	0.06		After 46 days of rebound
RW-6	4/1/19	26.10	24.10	2.00		After 77 days of rebound
RW-7	4/1/19	24.96	24.63	0.33		After 77 days of rebound
RW-9	4/1/19	23.82	23.69	0.13		After 77 days of rebound
RW-11	4/1/19	23.27	23.26	0.01		After 77 days of rebound
RW-15	4/1/19	28.02	27.97	0.05		After 77 days of rebound
RW-6	4/26/19	27.44	23.75	3.69		After 102 days of rebound
RW-7	4/26/19	25.06	24.54	0.52		After 102 days of rebound
RW-9	4/26/19	23.96	23.80	0.16		After 102 days of rebound
RW-11	4/26/19	23.47		0.00		After 102 days of rebound
RW-15	4/26/19	28.10	28.04	0.06		After 102 days of rebound
MW-1	7/10/19	27.22	25.98	1.24		After 72 days of rebound
RW-6	7/10/19	27.15	24.13	3.02		After 72 days of rebound
RW-7	7/10/19	25.20	24.69	0.51		After 72 days of rebound

Notes: \* wells constructed at a 30 degree angle; depth to water is measured distance; wells terminate at approximately 35 feet bgs.



**Table A9 – Radius of Influence Measurements**  
Dariano and Sons, 638 Auzerais Avenue, San Jose

**TABLE A10 – Summary of Hydrocarbon Mass Removed**  
Dariano and Sons, 638 Auzerais Avenue, San Jose

<b>Time Period</b>	<b>Treatment Type</b>	<b>Mass Removed (Gallons)</b>
10/03/05	SVE Feasibility Test (1.25 hours)	0.13
8/25/11 – 2/21/12	Passive skimmer	1.27
6/28/12 – 8/01/12	SVE	22.55
8/01/12	DPE Feasibility Test (1.8 hours)	0.18
10/30/12 – 4/08/13	Passive skimmer	1.66
4/23/13 – 5/16/13	SVE	32.84
5/17/13 – 8/29/13	DPE	164.72
2/07/14 – 4/22/14	DPE	127.65
11/21/14 – 8/31/15	SVE	1,628.00
11/14/16 – 12/19/16	Passive skimmer	1.40
5/08/17 – 5/19/17	SVE	16.21
5/20/17 – 7/11/17	DPE	37.63
3/19/18 – 7/18/18	SVE	24.61
10/19/18 – 10/22/18	SVE	7.18
1/11/19 – 1/14/19	SVE	6.20
4/26/19 – 4/29/19	SVE	1.94
9/20/19 – 9/23/19	SVE	6.90
<b>Total</b>		<b>2,081.07</b>

**Table A11 – Reduction in Groundwater Concentrations (Highest Historical vs. Recent Concentrations)**  
638 Auzerais Avenue, San Jose, CA

		TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
Historic	MW-1	1,100,000	<b>30,000</b>	180			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	NC
Historic	MW-2	2,300	140	53			
5/30/19		<50	<0.5	<0.5	100.0%	100.0%	100.0%
Historic	MW-3	4,500	220	230			
5/30/19		<50	<0.5	<0.5	100.0%	100.0%	100.0%
Historic	MW-4	90	1.0	100			
5/30/19		<50	<0.5	<0.5	100.0%	100.0%	100.0%
Historic	MW-5	2,100	150	<60			
5/30/19		<50	<0.5	<0.5	100.0%	100.0%	-
Historic	RW-6	140,000	<b>15,000</b>	<2,100			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	NC
Historic	RW-7	130,000	<b>8,200</b>	<1,000			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	NC
Historic	RW-8	260,000	<b>40,000</b>	3,500			
5/30/19		78,000	<b>12,000</b>	<250	70.0%	70.0%	100.0%
Historic	RW-9	72,000	<b>22,000</b>	<1,500			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
Historic	RW-10	140,000	<b>22,000</b>	11,000			
11/14/18		890	72	<2.5	99.4%	99.7%	100.0%
Historic	RW-11	160,000	<b>24,000</b>	<1,000			
11/14/18		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
Historic	RW-12	7,700	2,900	7.3			
11/14/18		7,700	2,900	<50	0.0%	0.0%	100.0%
Historic	RW-13	1,200	41	0.70			
11/14/18		<50	<0.50	<0.50	100.0%	100.0%	100.0%
Historic	RW-14	55,000	<b>9,900</b>	<500			
11/14/18		1,400	120	6.1	97.5%	98.8%	-
Historic	RW-15	59,000	<b>19,000</b>	<500			
11/14/18		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
Historic	MW-16	<50	1.0	<5.0			
5/30/19		<50	<0.50	<0.50	-	100.0%	-
5/30/19	MW-17	<50	<0.50	<0.50	-	-	-
5/30/19		<50	<0.50	<0.50	-	-	-

Notes: Values reported as ND for TPHg, benzene, and MTBE listed at 100% if historic value had a higher quantified value.

Bolded values indicate concentrations that exceed a low-threat closure screening level.

#### Low-Threat Closure Screening Level

	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Groundwater Ingestion (plume <100 feet)	No FP	No FP	No FP	No FP	No FP	No FP
Vapor Intrusion (DTW > 10 ft bgs)	None	1,000	None	None	None	None

**Table A12 – Reduction in Groundwater Concentrations**  
**(Start of Remediation by SVE/DPE vs. Recent Concentrations)**  
638 Auzerais Avenue, San Jose, CA

		TPHg	Benzene	MTBE	TPHg	Benzene	MTBE
5/3/17	MW-1	8,300	<b>2,400</b>	<50			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
5/3/17	MW-2	<50	<0.5	<5.0			
5/30/19		<50	<0.5	<0.5	-	-	-
5/3/17	MW-3	<50	<0.5	<5.0			
5/30/19		<50	<0.5	<0.5	-	-	-
11/17/16	MW-4	<50	<0.5	<5.0			
5/30/19		<50	<0.5	<0.5	-	-	-
11/17/16	MW-5	<50	<0.5	<5.0			
5/30/19		<50	<0.5	<0.5	-	-	-
5/3/17	RW-6	<b>FP</b>	<b>FP</b>	<b>FP</b>			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
5/3/17	RW-7	<b>FP</b>	<b>FP</b>	<b>FP</b>			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
5/3/17	RW-8	70,000	<b>13,000</b>	<50			
5/30/19		78,000	<b>12,000</b>	<250	-11.4%	7.7%	-
5/3/17	RW-9	2,700	<b>4,800</b>	<100			
5/30/19		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
5/3/17	RW-10	15,000	<b>1,400</b>	<50			
11/14/18		890	<b>72</b>	<2.5	94.1%	94.9%	-
5/3/17	RW-11	160,000	<b>10,000</b>	<170			
11/14/18		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
5/3/17	RW-12	5,900	<b>1,400</b>	<25			
11/14/18		7,700	<b>2,900</b>	<50	-30.5%	-107.1%	-
5/3/17	RW-13	1,200	41.0	<5.0			
11/14/18		<50	<0.50	<0.50	100.0%	100.0%	-
5/3/17	RW-14	<b>FP</b>	<b>FP</b>	<b>FP</b>			
11/14/18		1,400	120	6.1	99.9%	100.0%	-
5/3/17	RW-15	5,600	710	<17			
11/14/18		<b>FP</b>	<b>FP</b>	<b>FP</b>	NC	NC	-
11/17/16	MW-16	<50	<0.5	<5.0			
5/30/19		<50	<0.5	<0.5	-	-	-
5/3/17	MW-17	<50	<0.5	<0.5			
5/30/19		<50	<0.5	<0.5	-	-	-

Notes: FP = free product (Not used for calculation of reduction)  
Values reported as ND for TPHg, benzene, and MTBE listed at 100% if historic value had a higher quantified value.  
Bolded values indicate concentrations that exceed a low-threat closure screening level.

#### Low-Threat Closure Screening Level

	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Groundwater Ingestion	No FP	No FP	No FP	No FP	No FP	No FP
Vapor Intrusion	None	1,000	None	None	None	None

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## **APPENDIX B**

### **Client Transmittal Letter**

April 16, 2015

Aaron Costa  
Santa Clara County  
Department of Environmental Health  
1555 Berger Drive, Suite 300  
San Jose, CA 95112-2716

Subject: Dariano & Sons  
638 Auzerais Avenue  
San Jose, CA  
Case No. 12-023, SCVWDID #07S1E118K03f

Dear Mr. Costa:

I, Barbara Dariano, do hereby authorize GeoRestoration, Inc. to submit technical documents and reports associated with the subject property to the persons listed in the distribution section. If any of the regulatory agencies require it, I am prepared to declare, under penalty of perjury, that to the best of my knowledge the information contained in the submitted documents is true and correct.

If you have any questions or comments, please contact me at your convenience.

Sincerely,

  
Barbara Dariano

1858 Shulman Avenue  
San Jose, CA 95124