RECEIVED
By Alameda County Environmental Health at 12:10 pm, Mar 02, 2015

February 26, 2015

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Mark Detterman

Subject: Report of Additional Site Investigation Activities
3800 San Pablo Avenue, Emeryville, California
ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Attached please find a copy of the *Report of Additional Site Investigation Activities* prepared by Gribi Associates. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Very truly yours,

William H Banker

William H. Banker, Jr.
San Pablo Avenue Venture
c/o Banker, Marks & Kirk
1720 Broadway, Suite 202
Oakland, CA 94612

GRIBI
ASSOCIATES

February 26, 2015

Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Mark Detterman

Subject: Report of Additional Site Investigation Activities
3800 San Pablo Avenue, Emeryville, California
ACDEH Fuel Leak Case: RO00002520; Global ID: T06019788682

Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Report of Additional Site Investigation Activities* on behalf San Pablo Avenue Venture for the property located at 3800 San Pablo Avenue in Emeryville, California (Site) (see Figure 1, Figure 2, and Figure 3). This report documents: (1) The monitoring and sampling of four Site wells on December 7, 2014 and on January 29, 2015; (2) The attempted collection of vapor samples from five temporary soil gas wells on December 7, 2014 and on January 29, 2015; (3) Conducting a preferential pathways/sensitive receptors survey; and (4) Preparation of groundwater plume delineation maps for the Site.

Note that during soil gas and groundwater sampling on December 7, 2014, it was noted that groundwater was abnormally shallow (5-6 feet bgs), presumably due to a perched water zone which resulted from significant rain events during late November/early December 2014. Thus, sampling of vapor wells yielded water, and not vapor, during the December 7, 2014 sampling. For this reason, soil gas wells and groundwater monitoring wells were sampled again on January 29, 2015.

1.0 SITE BACKGROUND

According to the USGS Oakland, West, California 7.5-Minute Quadrangle Map, the Site lies on a gently southwest-sloping plain approximately one mile east from San Francisco Bay. The elevation at the Site is approximately 40 feet above mean sea level. Based on site topography and location, we would expect groundwater flow in the site area to generally be to the west towards San Francisco Bay.

Subsurface soils at the site and in the site area generally consist of clays, with occasional thin, discontinuous silts, sands, and gravels. Groundwater at the site is generally encountered under confining conditions below 15 feet in depth.

1.1 Brief Site History

Preliminary Phase I ESA activities were conducted which included a review of historical Sanborn Maps, a city directories abstract, historical aerial photos, and City of Emeryville records for the Site and site vicinity. Results of the historical records review indicate the following relative to Site history and environmental conditions.

- The current Site building was constructed between 1911 and 1939, and was occupied by a GMC truck sales and repair facility from at least 1950 to 1980.

- A former gasoline dispenser kiosk, labeled as "Gas & Oil" was present in the small Adeline Street parking lot directly adjacent to the site building (where the current front door to the building is located). The "Gas & Oil" label is the standard designation on Sanborn Maps for a gas station or gasoline fueling facility. Note that it is possible that the fuel dispenser island extended inside the Site building, immediately adjacent to the outside kiosk.

- The south wing of the GMC truck facility was apparently not used for truck repair activities, but rather was used for offices, parts department, and body shop.

While the GMC truck facility was present, the southeast yard, adjacent to Apgar Street, was either not part of the facility (residences) or was used for truck parking. The northeast yard area, adjacent to 39th Street, extended further east to include the current adjacent auto repair facility and was apparently used for storage and auto painting.

1.2 Summary of Previous Environmental Investigation Activities

The following sections describe previous underground storage tank (UST) removal and environmental investigation activities conducted at the Site.

1.2.1 UST Removal Activities

According to previous reports and records, there were previously two separate UST fueling systems on the Site. One system included two 1,000-gallon gasoline USTs and, while the exact location of these USTs is not known, these USTs were most likely located in the parking lot on the northeast side of the Site. The second system included one 1,000-gallon heating oil UST and one 550-gallon heating oil UST, both located in, and adjacent to, the Adeline Street sidewalk on the northwest property boundary. The gasoline UST system was apparently removed in 1981, and there is no record of environmental sampling during the removal. The two heating oil USTs were removed in May 2002. One soil sample was collected beneath each

of the removed USTs at a depth of approximately seven feet in depth. These soil samples showed up to 440 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as Gasoline (TPH-G). The UST excavation cavities were subsequently overexcavated, and subsequent soil samples collected at approximately ten feet in depth showed relatively low levels of hydrocarbons.

In April 2012, a 1,000-gallon UST was discovered in the Apgar Street sidewalk on the south side of the Site. This UST was removed on August 9, 2012. The tank showed no evidence of leakage, and soils beneath the removed UST exhibited slight to occasionally moderate hydrocarbon odors. Laboratory analytical results from soil samples showed no significant hydrocarbon detections. The only hydrocarbon detection in any of the samples was 0.520 milligrams per kilogram (mg/kg) (detection level = 0.500 mg/kg) of Total Petroleum Hydrocarbons as Gasoline (TPH-G) in the north sidewall soil sample. All of the metals results were relatively low and appear to represent background metals concentrations.

1.2.2 Site Investigation Activities

In May 2007, Enviro Soil Tech Consultants (ESTC) drilled and sampled seven soil borings, B-1 through B-7, in the small parking lot on the northwest (Adeline Street) side of the Site (see Figures 2) (*Preliminary Investigation and Evaluation Report for 3800 San Pablo Avenue, Emeryville, California,* Enviro Soil Tech Consultants, August 28, 2007). Soil samples collected at five-foot intervals down to 20 feet in depth showed no significant hydrocarbon detections. Grab groundwater samples from borings B-2, B-4, and B-7, located on the extreme north and south sides of the parking lot, showed no significant hydrocarbon detections. Grab groundwater samples from borings B-1, B-3, B-5, and B-6, located on the middle of the parking lot from the extreme east (building) edge to the southwest (Adeline Street) edge of the lot, showed TPH-G concentrations ranging from 4,500 micrograms per liter (ug/L) to 780,000 ug/L, and Benzene concentrations ranging from 7.5 ug/L to 6,400 ug/L. The configuration of these groundwater hydrocarbon detections seemed to point to a southwest aligned groundwater hydrocarbon plume that originated northeast of the small Adeline Street parking lot itself. This conclusion of a northeasterly source was bolstered by the lack of soil hydrocarbon detections or field evidence of shallow soil impacts in the seven soil borings.

In December 2011, Gribi Associates drilled and sampled seven investigative borings, B-8 through B-14, on the Site (*Report of Soil and Groundwater Investigation and Workplan to Conduct Additional Investigation Activities, 3800 San Pablo Avenue, Emeryville, California*, Gribi Associates, January 26, 2012). Soils encountered in the borings generally consisted of clays, with relatively thin discontinuous silty and clayey gravels and sands present in some of the borings. Soil and grab groundwater samples from the seven borings were analyzed for both gasoline- and diesel-range hydrocarbons. Very low concentrations (below 50 milligrams per kilogram, mg/kg) of diesel-range hydrocarbons were encountered in soil samples below ten feet in depth in borings B-8 and B-11. Very low concentrations (below 5 mg/kg) of gasoline-

range hydrocarbons were encountered in soil samples below ten feet in depth in borings B-8, B-12, B-13, and B-14. Low concentrations of gasoline-range hydrocarbons, with no BTEX constituents, were encountered in grab groundwater samples from B-8 and B-14. Moderate levels of gasoline-range hydrocarbons were encountered in grab groundwater samples from borings B-12 and B-13. Results of this investigation indicated that the previously-identified groundwater hydrocarbon plume beneath the Adeline Street parking lot is localized and did not originate from elsewhere on the Site. Further, it appeared that the source, or sources, of the groundwater hydrocarbon impacts in the Adeline Street parking lot are either the former USTs in the Adeline Street sidewalk (removed in 2002) or perhaps fuel dispensers associated with these former USTs. The report for this investigation included a work plan to: (1) The installation and monitoring of four groundwater monitoring wells in the Adeline Street parking lot; (2) The drilling and sampling of three soil borings on the west side of San Pablo Avenue, approximately 120 feet southwest from the Adeline Street parking lot.

In May 2012, nine investigative borings (B-15 through B-23) were drilled and four groundwater monitoring wells (MW-1 through MW-4) were installed at the Site (*Report of Remedial Investigation and Workplan to Conduct Interim Remedial Measures, 3800 San Pablo Avenue, Emeryville, California,* Gribi Associates, July 13, 2012). Both field and laboratory analytical results from this investigation indicate a relatively small, concentrated, predominately groundwater only, gasoline-range hydrocarbon plume present beneath the Adeline Street parking lot. The report for this investigation included a Conceptual Site Model and a work plan to conduct interim remedial measures (IRMs) for the Site. The IRM work plan proposed the drilling and sampling of additional borings and the implementation of an ozone injection pilot test on the Site. This work plan was conditionally approved on November 16, 2012.

In February 2013, three soil borings (B-24, B-27, and B-28) and three ozone injection wells (OW-1, OW-2, and OW-3) were installed and sampled. Soil samples from the three investigative borings and three well borings showed relatively low levels of gasoline-range hydrocarbons, with TPH-G concentrations ranging from nondetect to 25 mg/kg, and Benzene concentrations ranging from nondetect to 0.039 mg/kg. Groundwater samples from the three investigative borings showed low to moderate levels of gasoline-range hydrocarbons, with TPH-G concentrations ranging from nondetect to 7,900 ug/L and Benzene concentrations ranging from nondetect to 1,100 ug/L.

Gribi Associates installed an ozone remediation system at the site during the week of September 2, 2013. The ozone system was started on September 9, 2013 and operated continuously until the mid-October 2013. The system required repairs and was re-started on November 7, 2013 and operated continuously until the system was turned off on February 7, 2014. The ozone system was re-started on August 5, 2014 and turned off on October 24, 2014 to assess concentration rebound.

On August 28, 2014, five temporary soil gas wells, SG-1 through SG-5, were installed and sampled. Soil gas well SG-2 was re-sampled on September 15, 2014, and soil gas wells SG-2 and SG-5 were re-sampled on September 25, 2014. Shallow soil samples SS-1 through SS-4 were collected in the southeast Site yard area on September 15, 2014. Soil vapor samples from SG-1, SG-3, and SG-4 showed no detectable concentrations of hydrocarbon constituents. Vapor samples collected at SG-2 on September 15, 2014 and September 25, 2014 showed relatively low concentrations of TPH-G, with no detectable BTEX constituents and low concentrations of Cyclohexane, Hexane, Heptane, and 1,3,4-Trimethylbenzene. The vapor sample collected from SG-5 on August 28, 2014 showed 1,700 micrograms per cubic meter (ug/m^3) OF Benzene, 5,600 ug/m^3 of Toluene, 1,200 ug/m^3 of Ethylbenzene, and 4,570 ug/m^3 of Xylenes. The two duplicate vapor samples from SG-5 collected on September 25, 2014 showed no detectable concentrations of hydrocarbon constituents. All the vapor samples showed no detectable Helium (leak detection compound) and generally high levels (greater than 10 percent) of Oxygen.

Soil and groundwater samples from borings B-29 and B-30 showed no detectable concentrations of hydrocarbon constituents, except for 0.72 micrograms per liter (ug/L) of Toluene in the groundwater sample from B-29. Soil samples at 2.5 feet and 5.0 feet in depth from temporary well borings SG-2 and SG-5 showed no detectable concentrations of hydrocarbon constituents. Shallow soil samples SS-1 through SS-4 showed no detectable concentrations of hydrocarbons and VOCs, and background levels of Metals. Note that the SS-2 sample showed 69 milligrams per kilogram (mg/kg) of Total Lead and 2.6 milligrams per liter (mg/L) of Soluble (STLC) Lead.

1.3 Site Conceptual Model

Gribi Associates prepared a Site Conceptual Model (SCM) for the Site which generally included an evaluation of contaminant sources, contaminant impacts, potential environmental and human health receptors, and investigative data gaps. Some of the key elements of the SCM include the following:

- The contaminants of concern are primarily TPH-G and BTEX.
- The contaminant source, or sources, appears to be the former dispenser kiosk located in the Adeline Street parking lot near the west edge of the Site building.
- Contaminant impacts in soil appear to be fairly low, with maximum TPH-G and Benzene concentrations of 69 mg/kg and 0.36 mg/kg, respectively.
- Contaminant impacts in groundwater are limited primarily to the west side of the Site, encompassing an area including the west Adeline Street parking lot and extending a short distance northeast into the site building TPH-G and benzene concentrations in this area are elevated (TPH-G>10,000 ug/L and benzene>1,000 ug/L).

- Contaminant impacts in soil gas beneath the Site building are relatively low and do not indicate a significant indoor air inhalation risk relative to Site COCs.
- Potential human health receptors include (1) future construction workers, and (2) human exposure to outdoor and indoor volatile contaminant vapors.
- Investigative data gaps include (1) the extent of groundwater contaminant impacts west across San Pablo Avenue, and (2) the nature and extent of vapor contaminant impacts beneath the Site building.

2.0 DESCRIPTION OF FIELD ACTIVITIES

Groundwater monitoring and soil gas sampling were conducted on December 23, 2014. Groundwater monitoring was conducted for all seven site wells (MW-1 through MW-6 and IW-1). Also, soil gas sampling was conducted on the shallower well (SG-1-5.0) of a soil gas well pair. An attempt to sample the deeper soil gas well (SG-1-8.0) of the pair resulted in drawing water into the sampling equipment, presumably due to a shallow groundwater table. Field activities were conducted in accordance with generally-accepted sampling protocols and with previous DTSC approvals.

2.1 Soil Gas Sampling

On December 7, 2014, sampling of temporary soil gas wells was attempted; however, water, rather than vapor, was extracted from wells SG-1, SG-2, and SG-5, and soil gas sampling was discontinued. On January 29, 2015, soil gas sampling was again attempted. While vapor samples were collected from wells SG-2, SG-4, and SG-5, water was extracted from wells SG-1 and SG-3. Soil gas sampling of SG-2, SG-4, and SG-5 was conducted using the following procedures.

- A "T" valve was placed in line at the ground surface to allow for system purging and for pressure testing of the above ground portion of the sampling train. The sampling tubing was attached to a 200-milliliter per minute maximum flow controller, then a one liter laboratory-supplied Summa Canister™ (evacuated to 29 inches mercury vacuum) with vacuum pressure gauge.

- After allowing the temporary vapor well to equilibrate for at least 15 minutes, the well was purged and sampled. A laboratory supplied purge/pressure test Summa Canister™ (evacuated to 29 inches mercury) was used to test vacuum pressure in the above ground portion of the sampling train. During the pressure test, sampling train vacuum pressure was maintained for at least 10 minutes at both locations.

- Approximately one-half liter of vapor was purged from the well using the purge/pressure test Summa Canister.

- The entire probe and sampling train was placed under a shroud and a leak test was conducted. Helium from a compressed gas cylinder was pumped into the shroud, and the helium concentration inside the shroud was maintained at approximately 10,000 ppmV (the detection level for the ASTM Method D-1946 is 100 ppmV). Helium monitoring as conducted using a Mark Radiodetection MGD-2002 helium detector with internal pump (or equivalent). For the sampling train leak test, the helium monitor was attached to the purge tube and the T-valve opened. A positive reading of helium by the detector would indicate the presence of helium inside the sample train and, therefore, a leak in the sample train. For all three samples, helium was not detected.

- The vapor sample was then collected by opening the Summa canister and allowing the vapor to fill the canister until the vacuum pressure in the canister reaches approximately 20 percent of initial (approximately 5 to 6 inched mercury). An in-line flow controller was used so that the Summa Canister filled slowly (200 ml per minute or less) to insure a representative soil vapor sample. Prior to, at start time, and during sampling, periodic vacuum measurements were recorded on a field data sheet, and initial and final vacuum pressures were noted on chain-of-custody records.

- The vapor samples (filled Summa canisters) were secured and transported to SunStar Laboratories (a California-certified analytical laboratory) under formal chain-of-custody.

2.2 Groundwater Monitoring

Groundwater monitoring of the four site wells, MW-1 through MW-4, was conducted on December 7, 2014 and on January 29, 2015. Groundwater monitoring activities were conducted using the following procedures. Groundwater monitoring field records are included in Appendix A.

- Depth to groundwater was measured and each well was checked for the presence of free product.

- Approximately three well volumes were purged while groundwater temperature, pH, and specific conductively was measured and recorded.

- Once these parameters had stabilized, groundwater was sampled directly from the pump discharge hose. Groundwater was poured directly into laboratory-supplied

containers, which were tightly sealed with a minimum of bubbles, labelled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

- Water-tight caps were placed back on the wells, and the manhole covers for each well were secured.

2.3 Laboratory Analysis of Vapor and Water Samples

Groundwater samples from Site wells from the two monitoring events were analyzed for the following parameters.

- USEPA 8260B Total Petroleum Hydrocarbons as Gasoline (TPH-G)
- USEPA 8260B Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
- USEPA 8260B Oxygenates (DIPE, ETBE, MTBE, TAME, TBA)

In addition, vapor samples collected on January 29, 2015 from soil gas wells SG-2, SG-4, and SG-5 were analyzed for the following parameters with appropriate detection levels which are below regulatory screening levels.

- USEPA TO-15 TPH-G and Volatile Organic Compounds (VOCs)
- ASTM Method D-1946 Fixed Gases (Helium, Oxygen, Carbon Dioxide, Nitrogen)
- RSK 175 Methane

All analyses were conducted by either SunStar Laboratories, a California-certified analytical laboratories, with standard turnaround on results.

2.4 Preferential Pathways/Sensitive Receptors Survey

On January 23, 2015, a survey of below-ground utilities was conducted by Gribi Associates and ForeSite. The survey involved removing manhole covers and mapping below-ground utility locations, diameters, and invert depths by visual measurement and using electromagnetic instruments.

In order to attempt to identify potential water supply wells in the site vicinity, Gribi Associates requested copies of well records from both Alameda County Public Works Agency and California Department of Water Resources. We have not yet received well records from either of these agencies. In the interim, we obtained a well survey from a nearby site, Former Ambassador Laundry at 3601-3523 Adeline Street. This well survey reviewed county and state well records within a 2,000-foot radius from the Ambassador Laundry site.

3.0 RESULTS OF INVESTIGATION ACTIVITIES

3.1 Hydrologic Conditions

Groundwater depths in the four Site wells ranged from 5.82 feet (MW-4) to 6.23 feet (MW-3) during the December 7, 2014 monitoring event and from 7.70 feet (MW-4) to 8.63 (MW-2) during the January 29, 2015 monitoring event. Groundwater elevations in the four Site wells ranged from 32.66 feet above mean sea level (amsl) (MW-4) to 32.95 feet amsl (MW-1) during the December 7, 2014 monitoring event and from 29.87 feet amsl (MW-3) to 30.78 feet amsl (MW-4) during the January 29, 2015 monitoring event. Groundwater elevations for the December 7, 2014 and January 29, 2015 monitoring events are shown on Figure 4 and Figure 5, respectively. Groundwater elevation gradient beneath the Site is variable; however, based on hydrocarbon plume configuration, it appears that groundwater flow direction is to the southwest, in keeping with groundwater gradient at other nearby sites.

3.2 Laboratory Analytical Results

Groundwater laboratory analytical results for the December 7, 2014 and January 29, 2015 monitoring events are summarized in Table 1 and on Figure 6 and Figure 7, respectively. In addition, groundwater concentration trend graphs for the four Site wells are included in Appendix B. Soil gas laboratory analytical results are summarized in Table 2 and on Figure 8. Laboratory data reports are included in Appendix C.

Groundwater samples from the four Site wells generally showed increases in TPH-G, but minimal increases in BTEX constituents. TPH-G concentrations ranged from 1,900 ug/L (MW-3) to 12,000 ug/L (MW-1) during the December 7, 2014 monitoring event and from 3,100 ug/L (MW-3) to 43,000 ug/L (MW-4) during the January 29, 2015 monitoring event. Benzene concentrations ranged from 28 ug/L (MW-4) to 290 ug/L (MW-3) during the December 7, 2014 monitoring event and from 50 ug/L (MW-4) to 240 ug/L (MW-1) during the January 29, 2015 monitoring event.

The vapor samples from SG-2, SG-4, and SG-5 collected on January 29, 2015 showed detectable concentrations of some VOCs, but no detectable concentrations of BTEX constituents. In addition, oxygen concentrations were relatively low (below 3 percent) and methane concentrations were relatively high during the January 29, 2015 soil gas sampling event.

3.3 Results of Preferential Pathways/Sensitive Receptors Survey

Locations and depths of below-ground utilities on the Site and beneath adjacent roadways are shown on Figure 9. Sewer and storm drain pipes are present along the east side of Adeline Street and San Pablo Avenue at invert depths ranging from 7.6 feet to 11.0 feet below ground

surface (bgs). Since groundwater appears to be held under confining pressure below approximately 15 feet in depth, it is unlikely that these below-ground utilities are acting as preferential migratory pathways.

Note that the West MacArthur underpass roadway, located approximately 30 feet south from the Site, is approximately 19.5 feet below surface grade. It is our understanding that because this roadway is below the groundwater table, this underpass includes a pumping system to continually dewater the underpass.

We have submitted well survey requests to both Alameda County Public Works Agency and California Department of Water Resources and have not yet received the requisite well records. In the interim, we obtained a copy of a similar 2013 well survey conduct for the former Ambassador Laundry site, located approximately 400 feet southwest from the Site. A copy of the Ambassador Laundry well survey is included in Appendix D. This well survey included a review of county and state records within a 2,000-foot radius from the Ambassador Laundry site. The well survey map included in the well survey shows no nearby wells downgradient from the Site, and only one nearby crossgradient/upgradient well. This is a well located at 1016 MacArthur Blvd., approximately 80 feet east-southeast from the Site. This is a former UST site where monitoring wells were abandoned and regulatory closure was granted in 1997. A review of the Ambassador Laundry well survey indicates no water supply wells within 1,000 feet from the Site.

In lieu of conducting additional downgradient plume definition relative to the former Apgar Street UST, we prepared a map (see Figure 10) depicting potential maximum and 90th percentile groundwater TPH-G plume lengths (855 feet and 413 feet, respectively), based on studies summarized in the LTCP *Technical Justification for Groundwater Media-Specific Criteria.* We have also included the potential maximum groundwater TPH-G plume length (210 feet) for the Adeline Street USTs, which is based on actual groundwater data from onsite and offsite borings and wells.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Results of this and previous investigations indicate that:

1. As depicted on concentrations trend graphs (see Appendix B), groundwater TPH-G concentrations in the four wells generally increased during the two recent monitoring events; however, benzene concentrations generally remained similar to previous post-remediation sampling events. The increases in TPH-G in groundwater correspond to shallowing of groundwater that resulted from surface water infiltration during significant rain events in late November/early December 2014

2. The significant rainfall in late November/early December 2014 appears to have resulted in a temporary perched groundwater zone, or zones, that precluded soil gas sampling in Site soil gas wells, screened at about 5.5 feet in depth. Based on groundwater depth history (see Table 1), this groundwater shallowing appears to be anomalous

3. The temporary perched groundwater zone caused by November/December 2014 rains likely resulted in the anomalous soil gas VOC and fixed gases results in the three soil gas wells sampled on January 29, 2015. Vapor samples from SG-3 and SG-5 showed elevated levels of methane and low levels of oxygen, and the SG-4 vapor sample showed an elevated level of TPH-G, but no BTEX constituents. It seems likely that the low oxygen/high methane may be due to the introduction of bacteria-laden surface water. We believe that these conditions are anomalous and do not represent an overall trend or ongoing condition relative to vapors beneath the Site.

4. The continued lack of BTEX constituents in soil gas samples clearly indicates that indoor air exposure to BTEX, and particularly benzene, is not a significant concern relative to the planned Site redevelopment.

5. There appear to be no preferential pathways or sensitive receptors relative to Site hydrocarbon impacts. Below-ground utilities identified on and adjacent to the Site are too shallow to have acted as preferential migratory pathways, and well survey results for the former Ambassador Laundry site clearly indicate no water supply wells in the site vicinity.

6. Although complete groundwater hydrocarbon plume definition relative to the former Apgar Street UST has not been determined, we would not expect this plume length to exceed 200 feet. The reasons for this conclusion are: (1) The groundwater hydrocarbon plume associated with the former Adeline Street USTs (which is a larger hydrocarbon release) does not exceed 210 feet in length; (2) The groundwater dewatering system for the immediately south West MacArthur Boulevard underpass would be expected to intercept and halt downgradient (southwest) migration of this plume; and (3) Low-permeability soils beneath the Site and in the site vicinity generally result in short-length groundwater hydrocarbon plumes throughout the East Bay.

7. The preponderance of evidence indicates that the Site meets both the general and media-specific criteria for low-threat closure under *Low-Threat Underground Storage Tank Case Closure Policy.*

We appreciate this opportunity to provide this report for your review. Please contact us if there are questions or if additional information is required.

Very truly yours,

Matthew A. Rosman
Project Engineer

James E. Gribi
Professional Geologist
California No. 5843

Enclosures

Table 1 Cumulative Groundwater Laboratory Analytical Results
Table 2 Cumulative Soil Gas Laboratory Analytical Results

Figure 1 Site Vicinity Map
Figure 2 Site Area Plan
Figure 3 Site Plan
Figure 4 Groundwater Elevation Gradient – 12/07/2014
Figure 5 Groundwater Elevation Gradient – 01/29/2015
Figure 6 Groundwater Hydrocarbon Concentrations – 12/07/2014
Figure 7 Groundwater Hydrocarbon Concentrations – 01/29/2015
Figure 8 Soil Gas TPH-G/BTEX Results
Figure 9 Utility Map
Figure 10 Maximum Estimated TPH-G Plume Lengths

Appendix A Groundwater Monitoring Field Data Sheets
Appendix B Groundwater Hydrocarbon Concentration Trend Graphs
Appendix C Laboratory Data Reports & Chain-of-Custody Records
Appendix D Well Survey from Former Ambassador Laundry Site

c: Mr. Bill Banker, Jr., San Pablo Avenue Venture

TABLES

Table 1
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)												
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
MW-1	5/18/2012	8.42	30.54	**17,000**	–	–	**1,300**	**29**	**770**	**260**	All ND	–	–	–	–	–
<38.96>	9/13/2012	10.55	28.41	**13,000**	–	–	**630**	**10**	**780**	**86.7**	All ND	–	–	–	–	–
	11/9/2012	9.72	29.24	**15,000**	–	–	**1,200**	**21**	**1,100**	**283**	All ND	–	–	–	–	–
	2/20/2013	8.34	30.62	**9,800**	–	–	**970**	**15**	**860**	**171.5**	All ND	–	–	**75**	–	–
	6/4/2013	9.39	29.57	**8,600**	–	–	**880**	**15**	**770**	**121.2**	All ND	–	–	**74**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	10.38	28.58	**16,000**	–	–	**220**	**8.9**	**610**	**152.4**	All ND	<0.20	**0.091**	**120**	–	–
	12/30/2013	9.92	29.04	**4,700**	–	–	**62**	**1.5**	**110**	**62.75**	All ND	–	–	**23**	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.56	32.40	**5,600**	–	–	**320**	**8.4**	**370**	**89.7**	All ND	<0.20	**0.047**	**68**	–	–
	5/27/2014	9.77	29.19	**2,900**	–	–	**180**	**4.3**	**290**	**38.51**	All ND	–	–	**24**	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	11.25	27.71	**400**	<500	**960**	<0.50	<0.50	**1.1**	**1.3**	**38** TBA	–	–	<1.0	All ND	**7.0** 1,3,5-Trimethylbenzene **4.3** 1,2,4-Trimethyhlbenene
	Ozone Injection Stopped on October 24, 2014															
	12/7/2014	6.01	32.95	**12,000**			**250**	**2.8**	**270**	**54.51**	All ND	–	–	–	–	–
	1/29/2015	8.91	30.05	**15,000**			**240**	**3.6**	**210**	**59.51**	All ND	–	–	–	–	–
MW-2	5/18/2012	8.78	30.18	**10,000**	–	–	**610**	**26**	**340**	**69**	All ND	–	–	–	–	–
<38.96>	9/13/2012	10.64	28.32	**11,000**	–	–	**990**	**27**	**460**	**42.9**	All ND	–	–	–	–	–
	11/9/2012	9.57	29.39	**17,000**	–	–	**750**	**19**	**280**	**64.9**	All ND	–	–	–	–	–
	2/20/2013	8.86	30.1	**8,200**	–	–	**860**	**29**	**410**	**70**	All ND	–	–	**29**	–	–
	6/4/2013	9.86	29.1	**12,000**	–	–	**870**	**23**	**410**	**43.8**	All ND	–	–	**46**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	13.32	25.64	**930**	–	–	**39**	**5.6**	**26**	**20**	All ND	**1.1**	**0.09**	**13**	–	–
	12/30/2013	10.33	28.63	**270**	–	–	**7.9**	<0.50	**2.9**	<1.0	TBA=20	–	–	<1.0	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.95	32.01	**440**	–	–	**41**	**0.91**	**4.2**	**2.9**	All ND	<0.20	**0.13**	**4.2**	–	–
	5/27/2014	9.95	29.01	**1,200**	–	–	**250**	**5.9**	**34**	**14.2**	All ND	–	–	**8.1**	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	11.28	27.68	**180**	<500	<500	**4.5**	<0.50	**0.73**	<1.0	**87** TBA	–	–	<1.0	ALL ND	ALL ND

Table 1
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)												
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
	Ozone Injection Stopped on October 24, 2014															
	12/7/2014	6.15	32.81	**430**	–	–	**41**	**1.1**	**4.3**	**3.4**	**25** TBA	–	–	–	–	–
	1/29/2015	8.63	30.33	**6,900**	–	–	**180**	**5.4**	**37**	**19.2**	All ND	–	–	–	–	–
MW-3	5/18/2012	8.61	30.23	**13,000**	–	–	**1,400**	**36**	**350**	**378**	All ND	–	–	–	–	–
<38.84>	9/13/2012	10.3	28.54	**12,000**	–	–	**1,800**	**25**	**680**	**565.5**	All ND	–	–	–	–	–
	11/9/2012	9.25	29.59	**17,000**	–	–	**2,000**	**32**	**540**	**318.6**	All ND	–	–	–	–	–
	2/20/2013	8.8	30.04	**12,000**	–	–	**1,400**	**15**	**330**	**43.9**	All ND	–	–	**8.4**	–	–
	6/4/2013	9.49	29.35	**12,000**	–	–	**1,400**	**11**	**89**	**32.4**	All ND	–	–	**13**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	10.89	27.95	**5,500**	–	–	**190**	**2.8**	**42**	**27**	All ND	<0.20	**0.096**	**18**	–	–
	12/30/2013	14.59	24.25	**380**	–	–	**8.3**	<0.50	**2.3**	**1.6**	All ND	–	–	<1.0	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.99	31.85	**400**	–	–	**31**	**0.75**	**2.6**	**2.9**	All ND	<0.20	**0.083**	**1.9**	–	–
	5/27/2014	9.63	29.21	**510**	–	–	**120**	**1.3**	**9.8**	**2.8**	All ND	–	–	<1.0	–	–
	Ozone Injection Resumed on August 5, 2014															
	9/29/2014	10.31	28.53	<50	<500	<500	**2.3**	<0.50	<0.50	<1.0	All ND	–	–	<1.0	ALL ND	ALL ND
	Ozone Injection Stopped on October 24, 2014															
	12/7/2014	6.23	32.61	**1,900**	–	–	**290**	**1.8**	**2.1**	**12.4**	**30** TBA	–	–	–	–	–
	1/29/2015	8.97	29.87	**3,100**	–	–	**110**	**0.57**	**9.1**	**1.3**	**53** TBA	–	–	–	–	–
MW-4	5/18/2012	8.28	30.2	**10,000**	–	–	**82**	**32**	**330**	**278**	All ND	–	–	–	–	–
<38.48>	9/13/2012	8.8	29.68	**10,000**	–	–	**110**	**24**	**270**	**178.1**	All ND	–	–	–	–	–
	11/9/2012	8.06	30.42	**11,000**	–	–	**110**	**13**	**170**	**124.4**	All ND	–	–	–	–	–
	2/20/2013	8.16	30.32	**4,500**	–	–	**100**	**9.5**	**190**	**65.3**	All ND	–	–	**7.1**	–	–
	6/4/2013	8.73	29.75	**6,300**	–	–	**72**	**6.2**	**61**	**48.4**	All ND	–	–	**12**	–	–
	Ozone Injection Started on September 9, 2013															
	9/26/2013	9.76	28.72	**12,000**	–	–	**48**	**3.7**	**70**	**18.2**	All ND	<0.20	**0.056**	**13**	–	–
	12/30/2013	9.81	28.67	**7,600**	–	–	**50**	**6.6**	**68**	**104.3**	All ND	–	–	**37**	–	–
	Ozone Injection Stopped on February 7, 2014															
	3/7/2014	6.76	31.72	**3,100**	–	–	**38**	**4.3**	**51**	**76.5**	All ND	<0.020	**0.016**	**20**	–	–
	5/27/2014	9.11	29.37	**2,900**	–	–	**47**	**3.5**	**68**	**68.6**	All ND	–	–	<1.0	–	–

Table 2
CUMULATIVE SOIL GAS LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Sample ID	Date	Sample Depth	TPH-G (ug/m3)	B (ug/m3)	T (ug/m3)	E (ug/m3)	X (ug/m3)	Other (ug/m3)	Methane (ppmv)	CO2 (%)	N (%)	O2 (%)	Helium (%)
SG-1	8/28/2014	5.5 ft	<7,170	<3.3	<3.8	<4.4	<8.8	Heptane = **5.1**	<8.1	<1.62	**62.1**	**14.2**	<1.62
	12/7/2014	Sucked water; did not sample											
	1/29/2015	Sucked water; did not sample											
SG-2	9/15/2014	5.5 ft	**7,600**	<3.3	<3.8	<4.4	<8.8	Cyclohexane = **310** Heptane = **46** Hexane = **1,000** 1,3,5-TMB = **56**	**170**	**3.87**	**51.0**	**13.2**	<1.57
	9/25/2014	5.5 ft	<7,170	<160	<190	<220	<220	Cyclohexane = **1,900** Hexane = **1,000**	**77**	**5.3**	**58.3**	**2.01**	0.00
	12/7/2014	Sucked water; did not sample											
	1/29/2015		<7,170	<3.3	<3.8	<4.4	<8.8	Cyclohexane = **53** Heptane = **14** Hexane = **42** TCE = **16**	**493**	<1.75	**59.2**	**2.11**	0.00
SG-3	8/28/2014	5.5 ft	<7,170	<3.3	<3.8	<4.4	<8.8	All ND	<7.6	<1.51	**49.7**	**16.6**	<1.51
	12/7/2014	Did not attempt to sample due to shallow groundwater depths											
	1/29/2015	Sucked water; did not sample											
SG-4	8/28/2014	5.5 ft	<7,170	<3.3	<3.8	<4.4	<8.8	1,2,4-TMB = **13**	**240**	<1.54	**52.3**	**5.87**	<1.54
	12/7/2014	Did not attempt to sample due to shallow groundwater depths											
	1/29/2015		**440,000**	<160	<190	<220	<220	Cyclohexane = **52,000** Heptane = **9,800** Hexane = **26,000**	**121,176**	**6.49**	**64.5**	<1.72	0.00
SG-5	8/28/2014	5.5 ft	<7,170	**1,700**	**5,600**	**1,200**	**4,570**	All ND	**150**	<1.53	**49.7**	**12.5**	<1.53
	9/25/2014		<7,170	<3.3	<3.8	<4.4	<8.8	All ND	**18**	**2.01**	**54.7**	**9.28**	0.00
(Dup)	9/25/2014		<7,170	<3.3	<3.8	<4.4	<8.9	All ND	<7.9	**2.01**	**53.5**	**10.8**	0.00
	12/7/2014	Sucked water; did not sample											
	1/29/2015		<7,170	<3.3	<3.8	<4.4	<8.8	Tetrahydrofuran = **47** Tetrachloroethene = **8.7** 2-Butanone (MEK) = **47**	**3,142**	<1.54	**41.9**	**2.1**	0.00
Purge	8/28/2014	5.5 ft	NA	NA	NA	NA	NA	NA	NA	<1.58	**53.5**	**14**	<1.58
Soil Gas ESL			**2.5E+06**	**420**	**1.3E+06**	**4,900**	**4.4E+05**	Various	--	--	--	--	--

Table Notes

B = Benzene
T = Toluene
E = Ethylhbenzene
X = Xylenes

1,2,4-TMB = 1,2,4-Trimethylbenzene
ug/m3 = micrograms per cubic meter
ppmv = parts per million by volume
% = Percent

Other = Other VOCs, includes approxmately 47 individual VOC compounds
<7,170 = Not detected at or above the expressed value.
ND = Not detected above laboratory detection levels.
NA = Not analyzed for this analyte

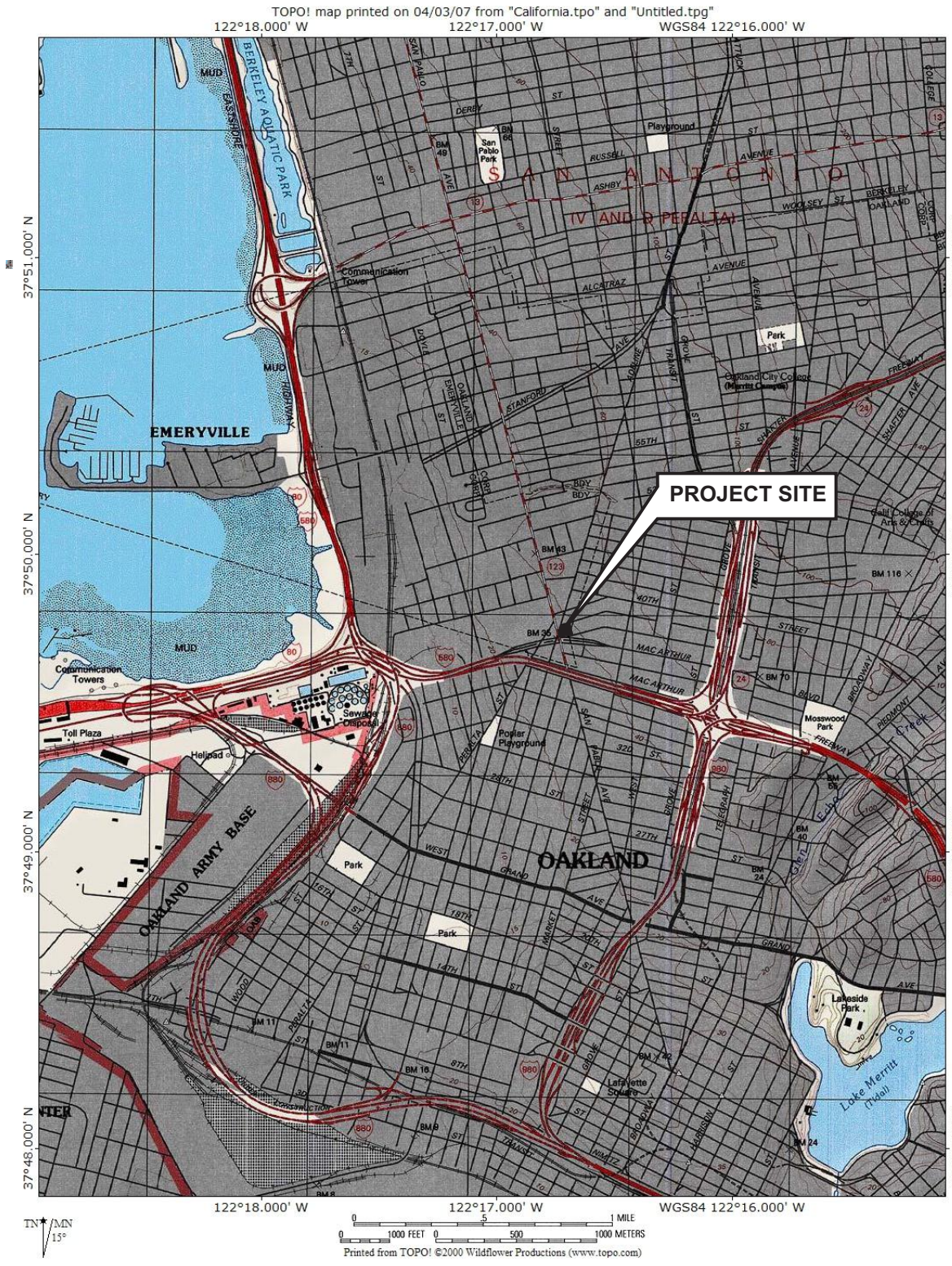
Table 1
CUMULATIVE GROUNDWATER LABORATORY ANALYTICAL RESULTS
Former Maz Glass UST Site

Well ID	Date	GW Depth	GW Elev.	Groundwater Concentration, in micrograms per liter (ug/L)												
				TPH-G	TPH-D	TPH-HO	B	T	E	X	OXY	Cr6	Br	N	SVOCs	Other VOCs
Ozone Injection Resumed on August 5, 2014																
	9/29/2014	11.19	27.29	**5,600**	**2,200**	**4,900**	**16**	**0.78**	**6.1**	**9.04**	All ND	–	**–**	<1.0	All ND	**1.3** sec-Butylbenzene **2.8** Isopropylbenzene **2.9** p-Isopropylbenzene **5.7** n-Propylbenzene **22** 1,3,5-Trimethylbenzene **20** 1,2,4-Trimethylbenzene
Ozone Injection Stopped on October 24, 2014																
	12/7/2014	5.82	32.66	**5,700**	–	–	**28**	**2.9**	**30**	**23.2**	All ND	–	–	–	–	–
	1/29/2015	7.70	30.78	**43,000**	–	–	**50**	**7.7**	**70**	**79.5**	All ND	–	–	–	–	–
Enviromental Screening Levels				**100**	**110**	**NL**	**27**	**95,000**	**310**	**37,000**	**110 TBA**	**21**	**NL**	**160**	**Various**	**Various**

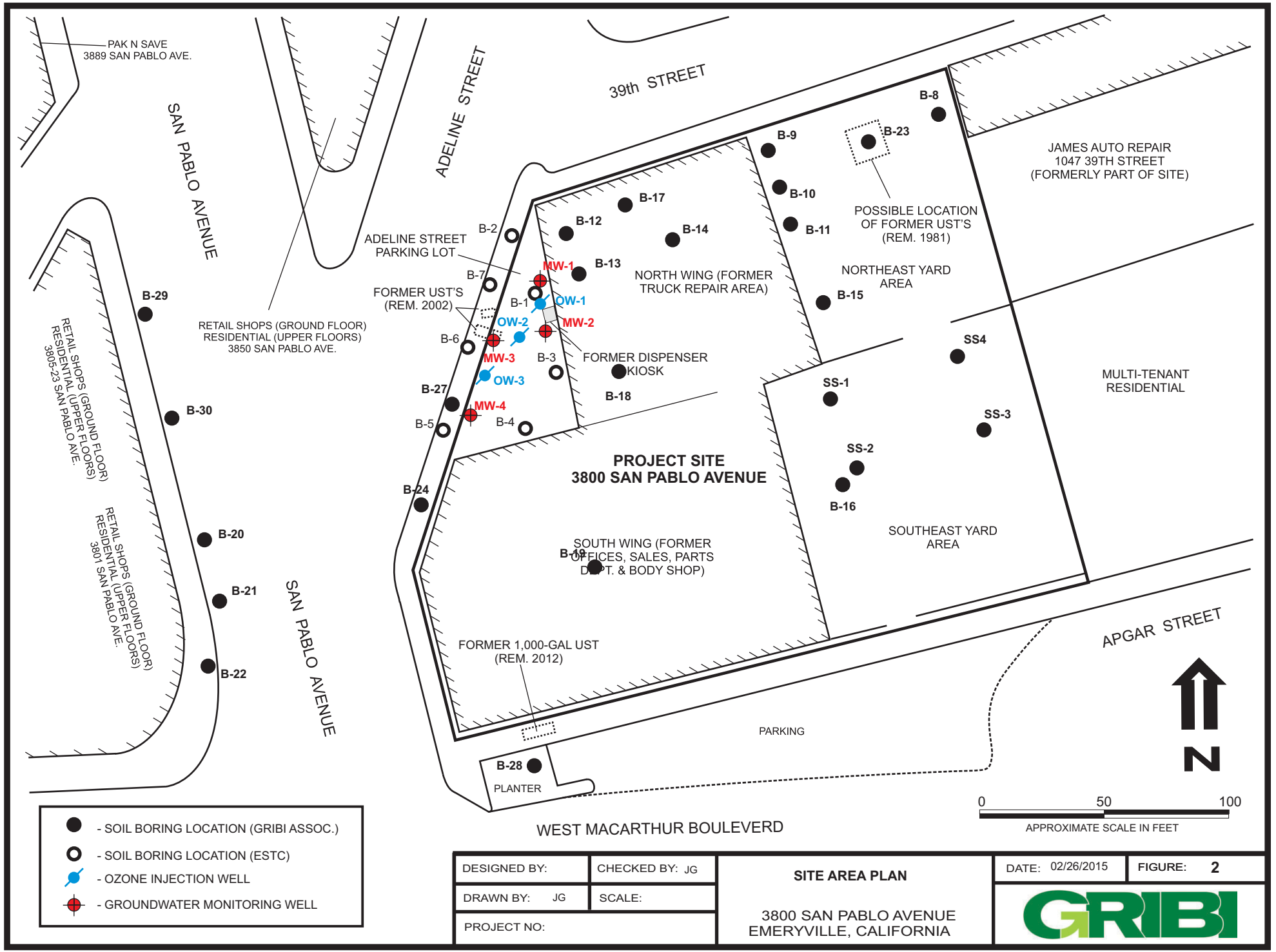
TABLE NOTES

GW Elev = Groundwater mean sea level elevation
TPH-G = Total Petroleum Hydrocarbons as gasoline
B = Benzene,
T = Toluene
E = Ethylbenzene
TPH-D
TPH-K
X = Xylenes
OXY = Oxygenates, including MTBE = Methyl-t-Butyl Ether,
ter-Butanol (TBA), Di-isopropyl Ether (DIPE), Ethyl-t-butyl Ether (ETBE), and Tert-amyl Methyl Ether (TAME).
Cr6 = Hexavalent Chromium
Br = Bromate
N = Naphthalene.
<38.96> = Top of casing mean sea level elevation (Virgil Chavez Land Survey).
All ND = No detectable concentrations of all analytes.
– = Not analyzed for this analyte.
SVOCs = semi-volatile organic compounds
VOCs = volatile organic compounds
<1.0 = Not detected above the expressed value.
ESL = Environmental Screening Levels, as contained in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater* , San Francisco Bay Regional Water Quality Control Board, December 2013, Table E-1, Groundwater to Indoor Air, fine grained soils, residential land use.
NL = Not Listed

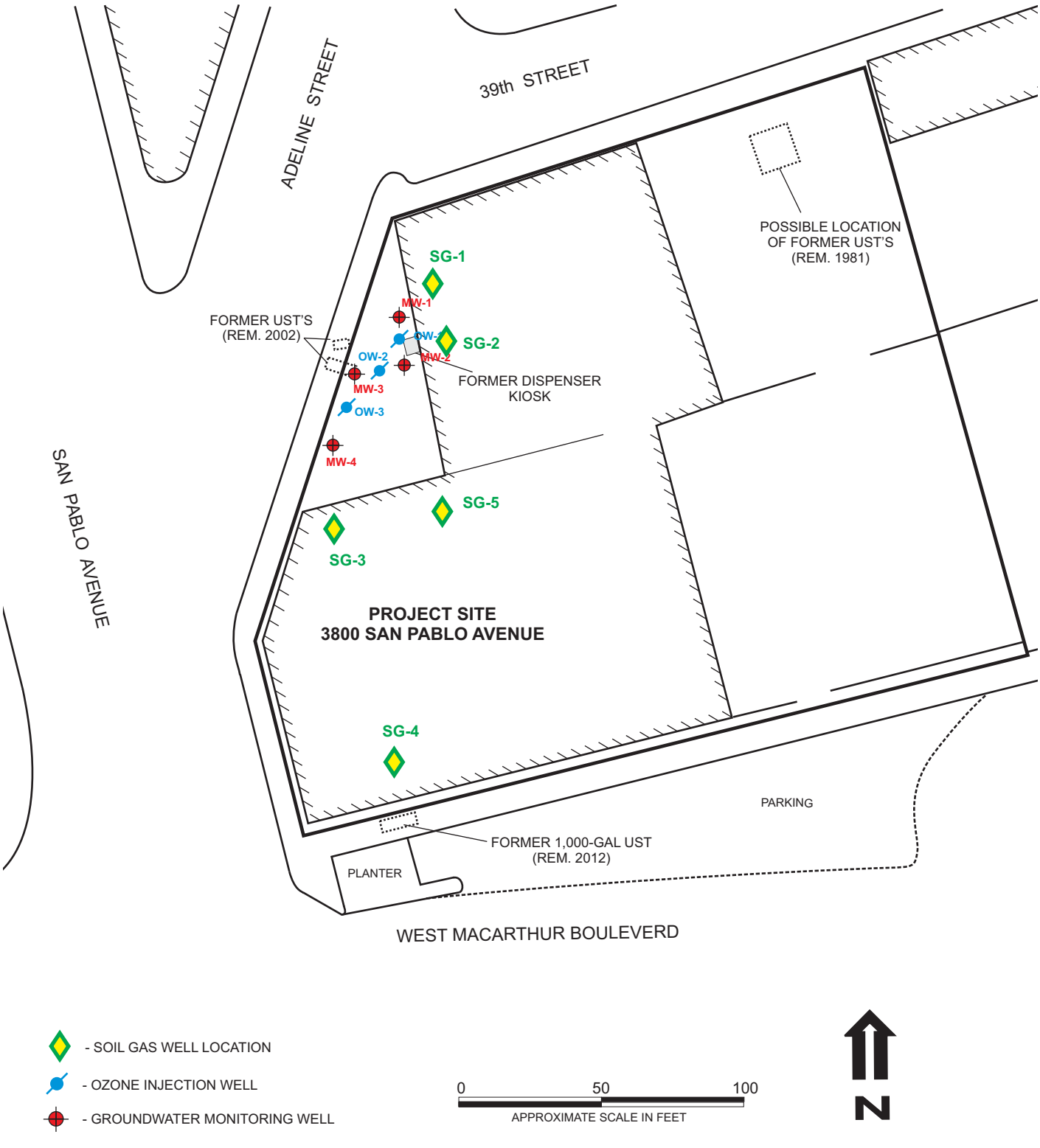
FIGURES



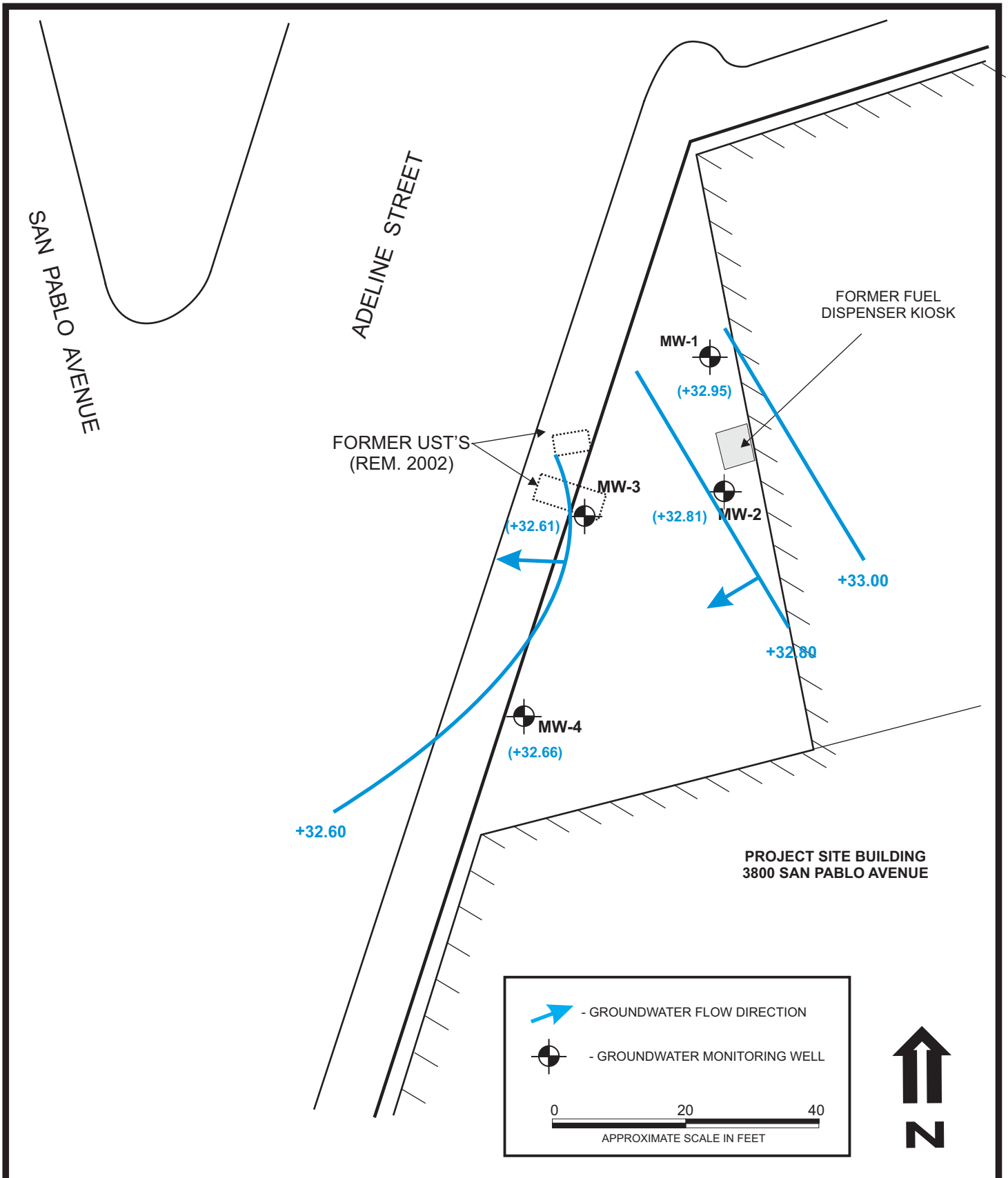
DESIGNED BY:	CHECKED BY: JG	**SITE VICINITY MAP**	DATE: 02/26/2015	FIGURE: 1
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



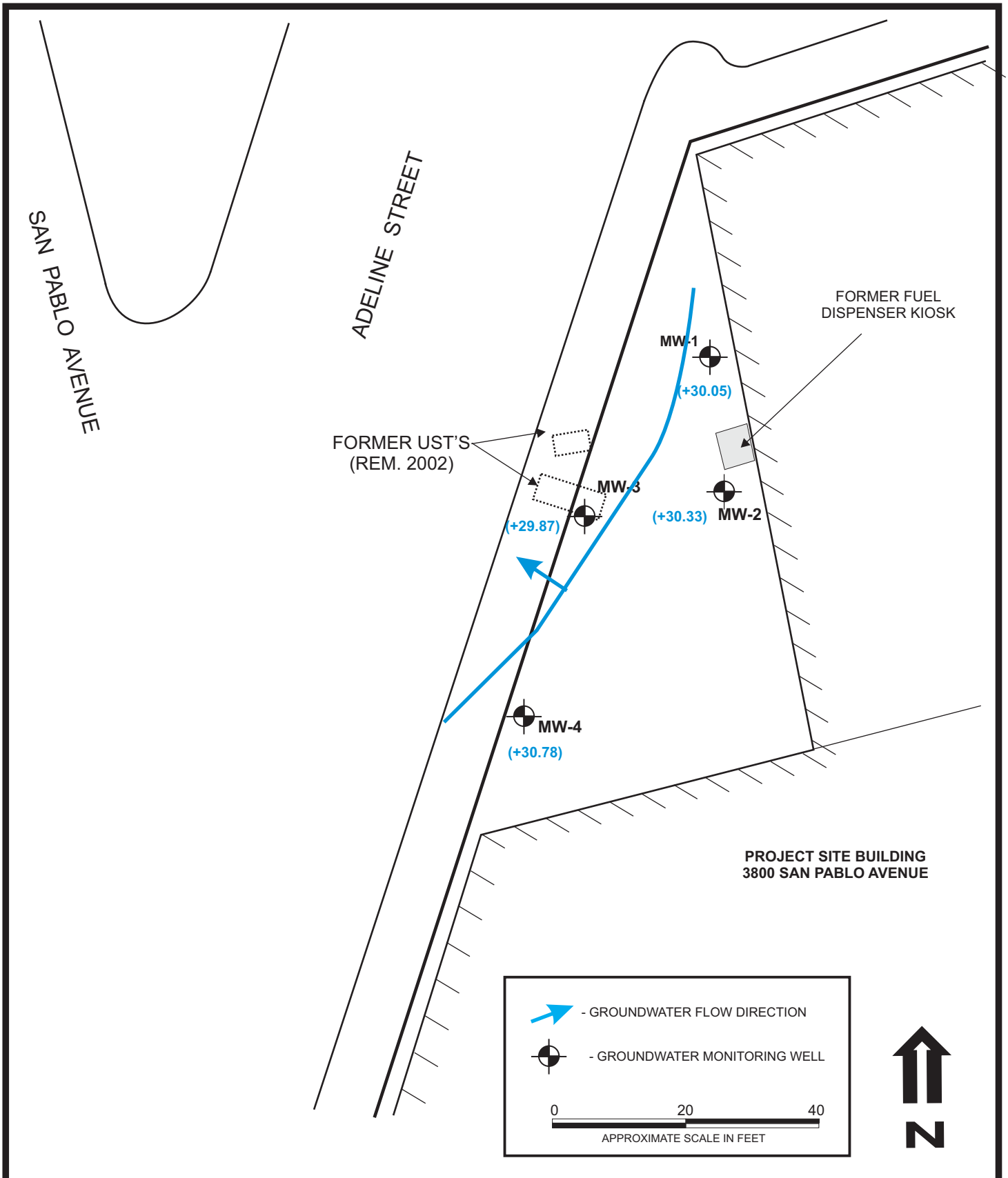
DESIGNED BY:	CHECKED BY: JG	**SITE AREA PLAN**	DATE: 02/26/2015
DRAWN BY: JG	SCALE:		FIGURE: 2
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	GRIBI



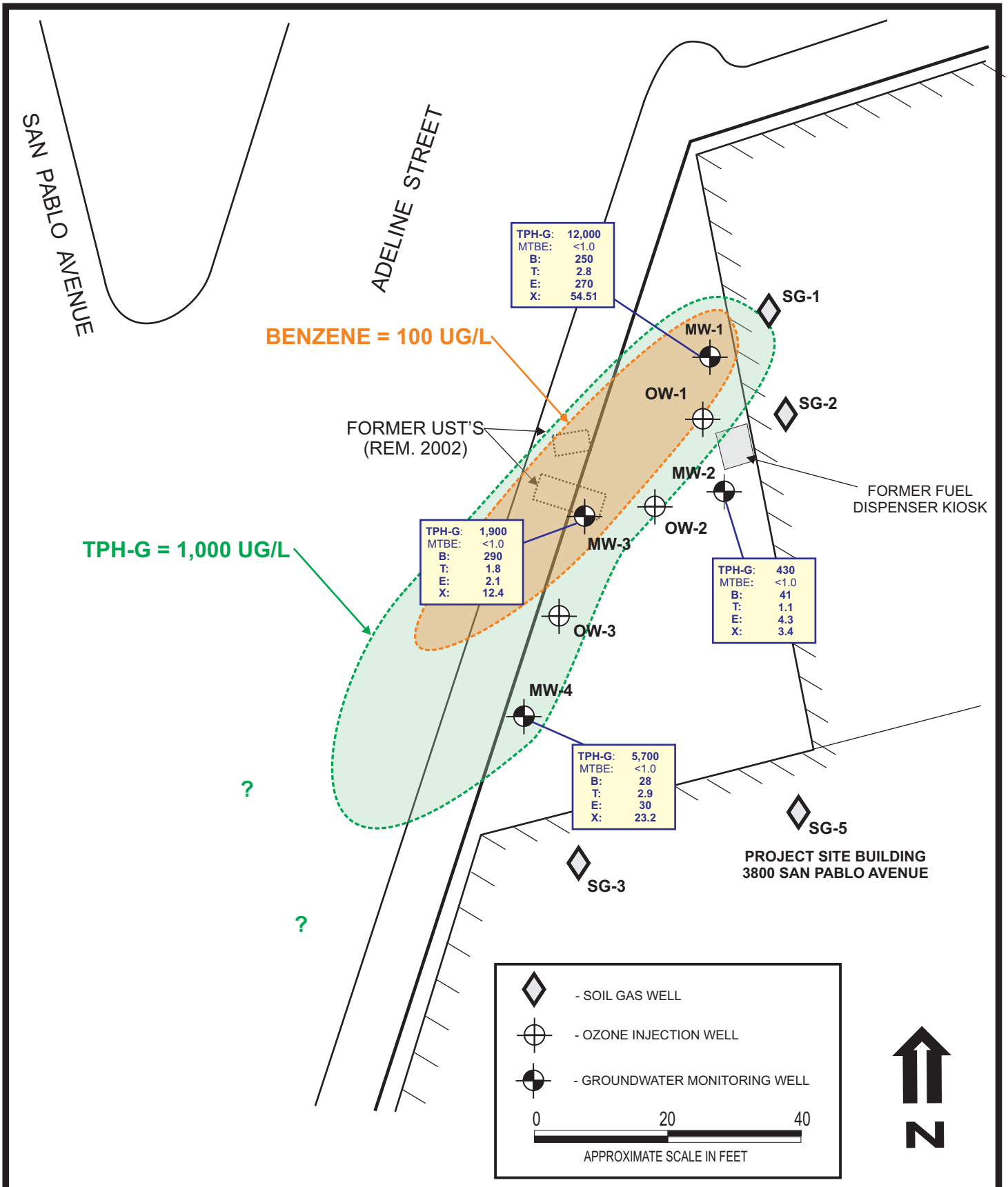
DESIGNED BY:	CHECKED BY: JG	**SITE PLAN**	DATE: 02/26/2015	FIGURE: **3**
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



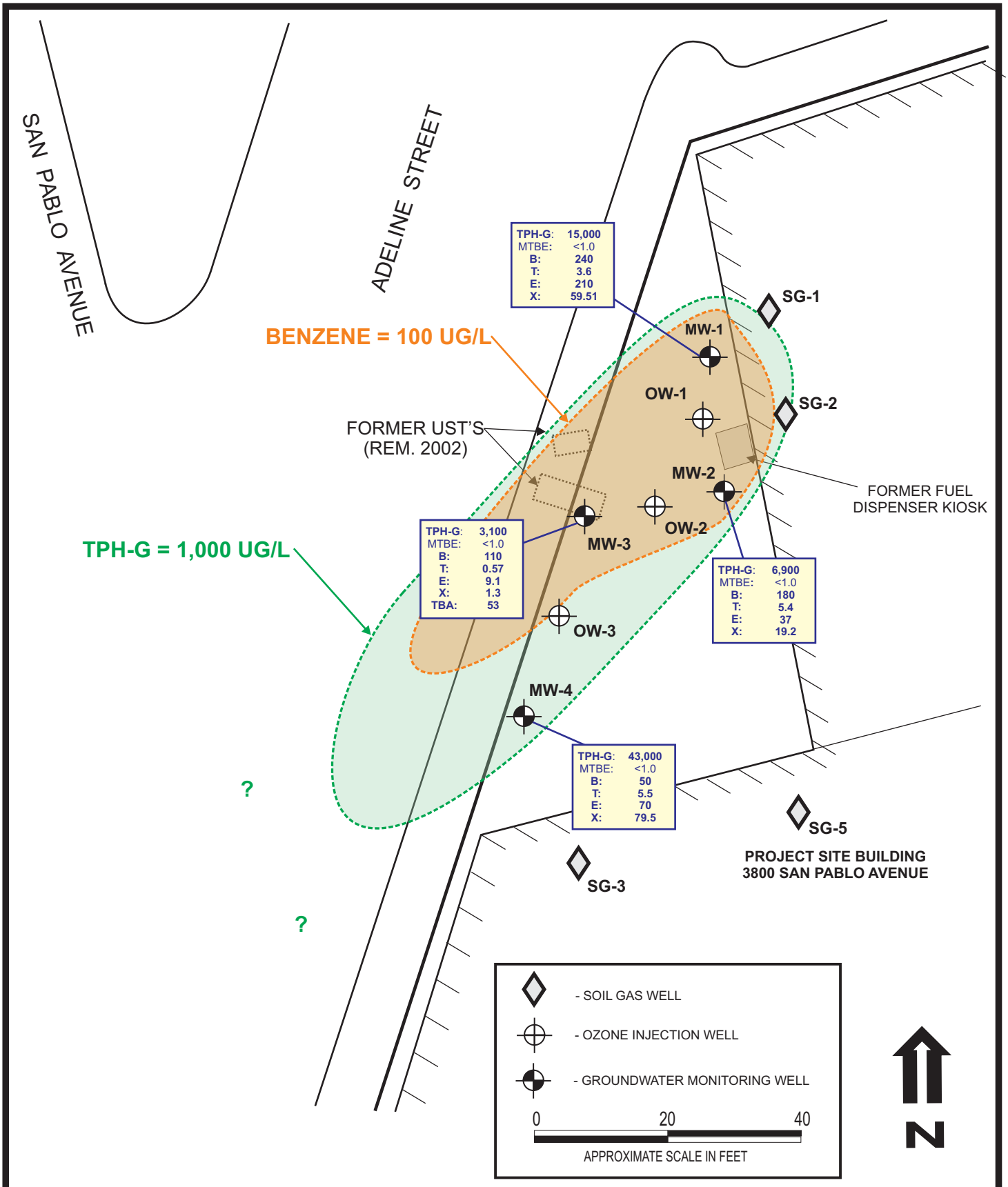
DESIGNED BY:	CHECKED BY: JG	**GROUNDWATER ELEVATION GRADIENT - 12/07/2014**	DATE: 02/26/2015	FIGURE: **4**
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



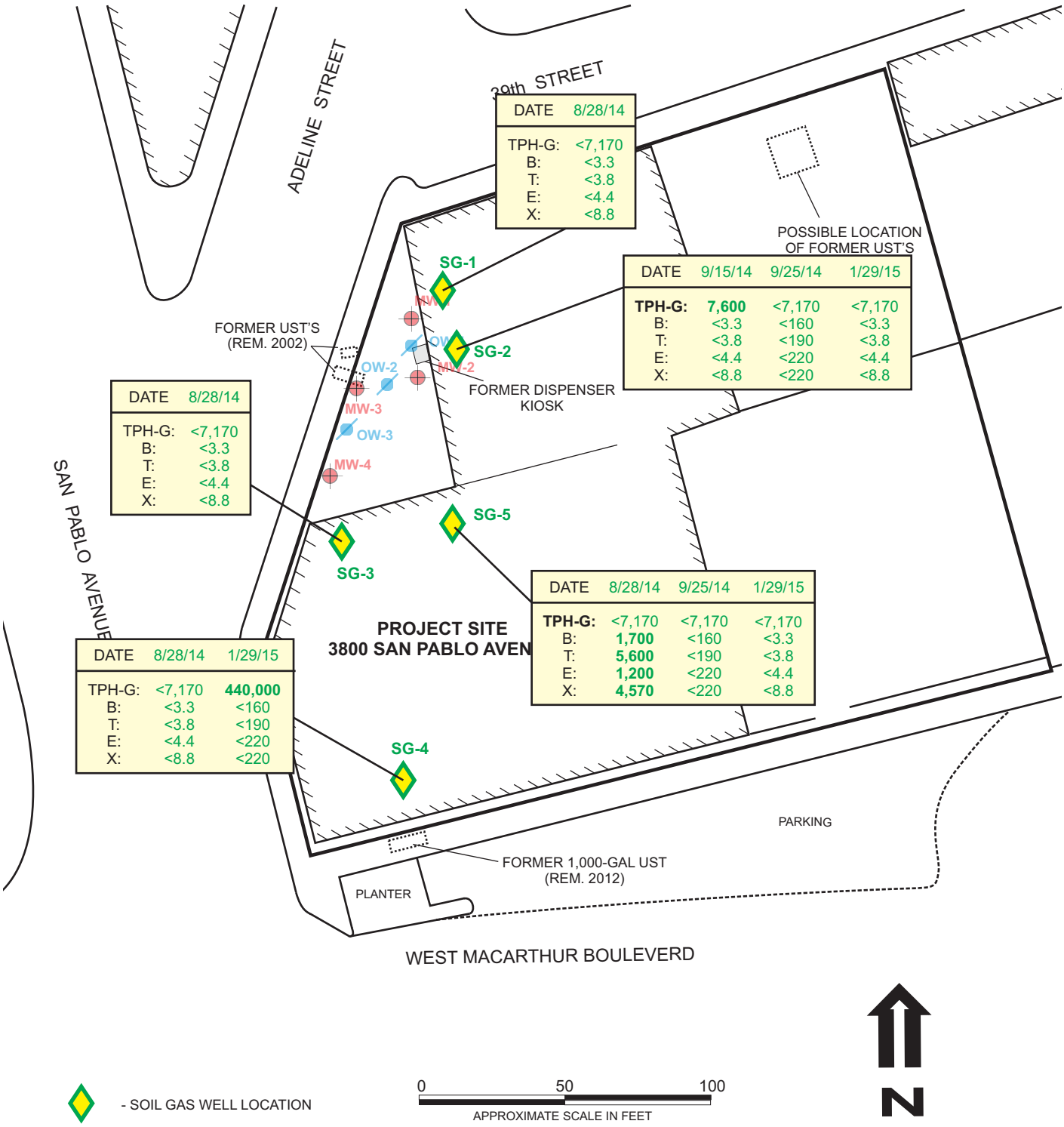
DESIGNED BY:	CHECKED BY: JG	**GROUNDWATER ELEVATION GRADIENT - 01/29/2015**	DATE: 02/26/2015	FIGURE: **5**
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



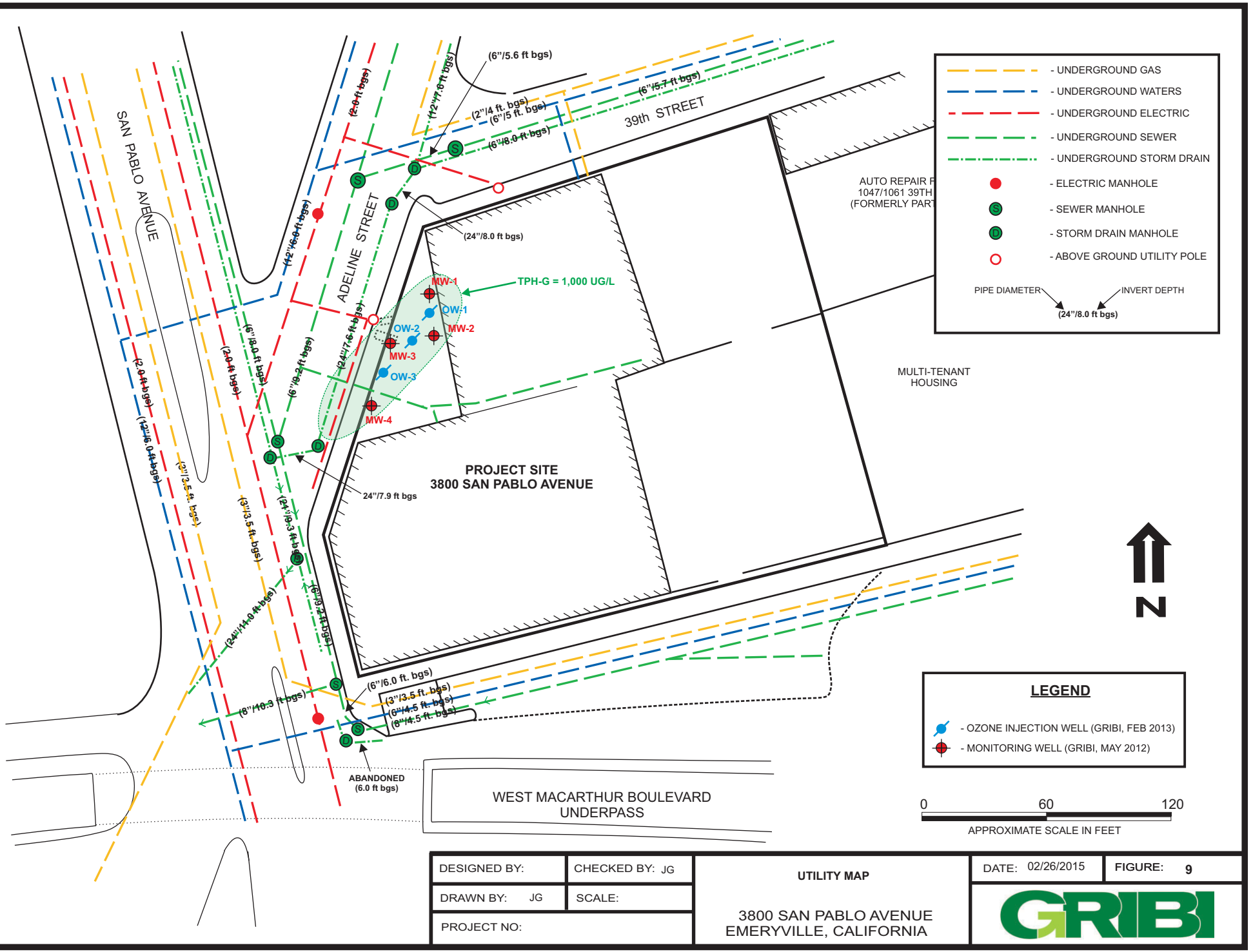
DESIGNED BY:	CHECKED BY: JG	**GROUNDWATER HYDROCARBON CONCENTRATIONS - 12/07/2014**	DATE: 02/26/2015	FIGURE: **6**
DRAWN BY: MR	SCALE:	3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	GRIBI	
PROJECT NO:				



DESIGNED BY:	CHECKED BY: JG	**GROUNDWATER HYDROCARBON CONCENTRATIONS - 01/29/2015**	DATE: 02/26/2015	FIGURE: 7
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JG	**SOIL GAS TPH-G/BTEX RESULTS**	DATE: 02/26/2015	FIGURE: **8**
DRAWN BY: MR	SCALE:			
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		



DESIGNED BY:	CHECKED BY: JG	UTILITY MAP	DATE: 02/26/2015 FIGURE: 9
DRAWN BY: JG	SCALE:	3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA	GRIBI
PROJECT NO:			

DESIGNED BY:	CHECKED BY: JG	**MAXIMUM ESTIMATED TPH-G PLUME LENGTHS**	DATE: 02/26/2015	FIGURE: **10**
DRAWN BY: MR	SCALE:			GRIBI
PROJECT NO:		3800 SAN PABLO AVENUE EMERYVILLE, CALIFORNIA		

APPENDIX A

GROUNDWATER MONITORING
FIELD DATA SHEETS

Ground Water Monitoring Field Sheet

Site Maz Glass Project Number

Sampling Personnel JG Date 12/7/14

Weather Conditions

Well ID MW-1 Casing Diameter (inches)

Depth to Water (ft) 6.01 Total Depth (ft)

Water Column (ft) One Well Volume (gal)

3X Well Volume (gal)

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments
		12V DC	

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
845	0	20.2	990		6.10		SL MK BROWN
846	2	20.6	955		5.90		CLR-SL MKY
847	4	20.6	985		4.96		MKY BRN
849	6	20.2	979		4.94		
851	8	20.1	976		4.92		

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color			X		
Odor		X			
Turbidity			X		
Sheen	X				
Floating Particles					
Precipitate					

Sample Time 855 Sampler's Signature

Ground Water Monitoring Field Sheet

Site Maz Glass Project Number

Sampling Personnel JG Date 12/7/14

Much wtr in well box

Weather Conditions

Well ID MW-2 Casing Diameter (inches)

Depth to Water (ft) 6.15 Total Depth (ft)

Water Column (ft) One Well Volume (gal)

3X Well Volume (gal)

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
914	0	20.4	1072		4.11		SL MKY BRN
916	2	20.3	1007		4.07		
918	4	20.1	1010		4.05		CLR
920	6	20.2	1015		4.10		
9:22	8						

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X			
Turbidity	X				
Sheen	X				
Floating Particles	X				
Precipitate	X				

Sample Time 925 Sampler's Signature

Ground Water Monitoring Field Sheet

Site Maz Glass Project Number _____

Sampling Personnel J Grubi Date 12/7/14

Weather Conditions Sl Cloudy

Well ID MW-3 Casing Diameter (inches) _____

Depth to Water (ft) 6.23 Total Depth (ft) _____

Water Column (ft) _____ One Well Volume (gal) _____

3X Well Volume (gal) _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
940	0	20.7	1169		3.98		SL MKy BRN
942	2	20.8	1168		3.91		"
943	4	20.9	1164		3.88		"
945	6	20.8	11.68		3.90		VSL "
947	9	20.7	1169		3.88		" "

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor	~~X~~ VS	VSL			
Turbidity					
Sheen	X				
Floating Particles	X				
Precipitate					

Sample Time 950 Sampler's Signature _____

Ground Water Monitoring Field Sheet

Site Maz Glass Project Number _____

Sampling Personnel _____ Date 12/7/14

Weather Conditions _____

Well ID MW-4 Casing Diameter (inches) _____

Depth to Water (ft) 5.82 Total Depth (ft) _____

Water Column (ft) _____ One Well Volume (gal) _____

3X Well Volume (gal) _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
1005	0	19.7	973		433		CLR
1006	2	19.6	976		4.57		
1008	4	19.6	1004		440		
1009	6	19.8	1006		450		
1011	9	19.7	1004		451		"

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X			
Turbidity	X				
Sheen	X				
Floating Particles	X				
Precipitate	X				

Sample Time 1015 Sampler's Signature _____

Ground Water Monitoring Field Sheet

Site MAZ Glass Project Number _____

Sampling Personnel J Grib 1 Date 1/29/15

Weather Conditions Clear, Cool

Well ID MW-1 Casing Diameter (inches) 2

Depth to Water (ft) ~~8.96~~ 8.91 Total Depth (ft) 22.95

Water Column (ft) _____ One Well Volume (gal) _____

3X Well Volume (gal) _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments
		12 V	

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
~~0805~~	0	17.5	10 50		7.06		MKy BrN
	2	19.6	1001		7.01		" "
	4	19.6	1003		6.98		
	6	19.7	1005		6.98		
1824	8	19.8	1007		6.98		

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color					
Odor					
Turbidity					
Sheen					
Floating Particles					
Precipitate					

Sample Time 825 Sampler's Signature _____

Ground Water Monitoring Field Sheet

Site Maz Glass Project Number _____

Sampling Personnel _____ Date 1/29/15

Weather Conditions Clear

Well ID ~~MW-2~~ MW-2 Casing Diameter (inches) 2

Depth to Water (ft) ~~7.65~~ 8.63 Total Depth (ft) 23.91

Water Column (ft) ~~_____~~ One Well Volume (gal) _____

3X Well Volume (gal) _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments
		12V	

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
745	0	19.4	1046		6.91		MKy Grey
	2	19.5	1042		6.77		Cl
	4	19.5	1093		6.78		"
	6	19.7	1096		6.79		"
753	8	19.7	1101		6.81		"

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X	X		
Turbidity	X				
Sheen	X				
Floating Particles	X				
Precipitate	X				

Sample Time 755 Sampler's Signature _____

Ground Water Monitoring Field Sheet

Site: Maz Glass Project Number: _____

Sampling Personnel: JG Date: 1/29/15

Weather Conditions: _____

Well ID: MW-3 Casing Diameter (inches): _____

Depth to Water (ft): ~~8.23~~ 8.97 Total Depth (ft): 22.89

Water Column (ft): _____ One Well Volume (gal): _____

3X Well Volume (gal): _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments
		12 V	

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
@35	0	18.8	1148		7.21		MKy brn
	2	19.6	1147		7.16		clr
	4	19.7	1145		7.16		
	6	19.8	1142		7.14		
943	8	19.6	1147		7.12		

Sample Observations

Characteristic	None	Slight	Moderate	Strong	Comments
Color		X			LT MKy TAN
Odor		X	X		
Turbidity	X	X			
Sheen	X				
Floating Particles	X				
Precipitate	X				

Sample Time: 845 Sampler's Signature: _____

Ground Water Monitoring Field Sheet

Site: Maz Glass Project Number: _____

Sampling Personnel: JG Date: 1/29/15

Weather Conditions: _____

Well ID: MW-[illegible] Casing Diameter (inches): _____

Depth to Water (ft): ~~7.46~~ 7.70 Total Depth (ft): 22.91

Water Column (ft): _____ One Well Volume (gal): _____

3X Well Volume (gal): _____

Notes:

One Well Volume is determined by multiplying "Water Column" by:

* 0.059 for ¾ inch well, 0.17 for 2 inch well, 0.38 for 3 inch well, 0.66 for 4 inch well, 1.50 for 6 inch well

Field Methods (check appropriate box)

Activity	Bailer	Pump	Comments
		12 V	

Field Parameters

Time	Volume Purged	Temp (Celsius)	E.C. (mS/cm)	D.O. (mg/L)	pH	ORP (mv)	Comments
900	0	18.7	1020		6.90		CLR
	2	19.7	1032		6.97		
	4	19.6	1031		6.86		
	6	19.6	1033		6.85		
908	8	19.5	1035		6.88		

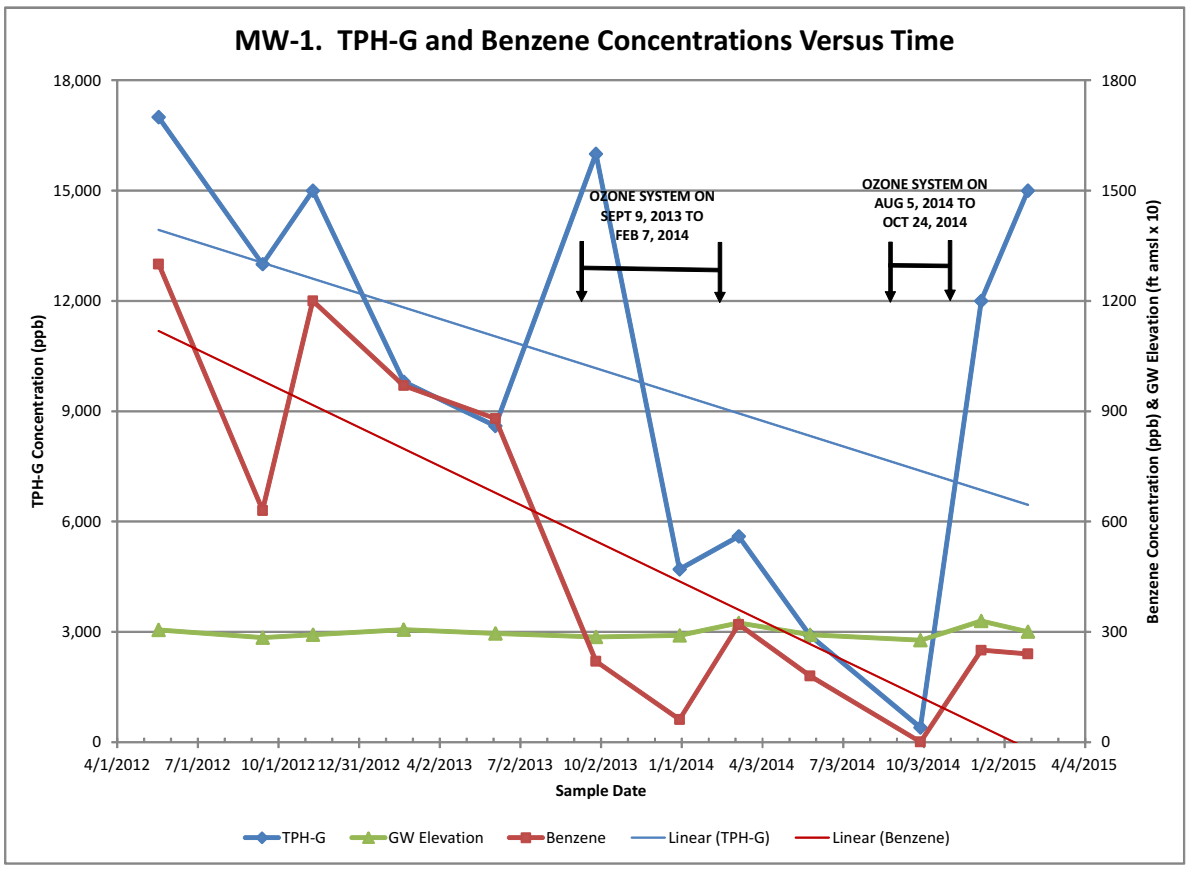
Sample Observations

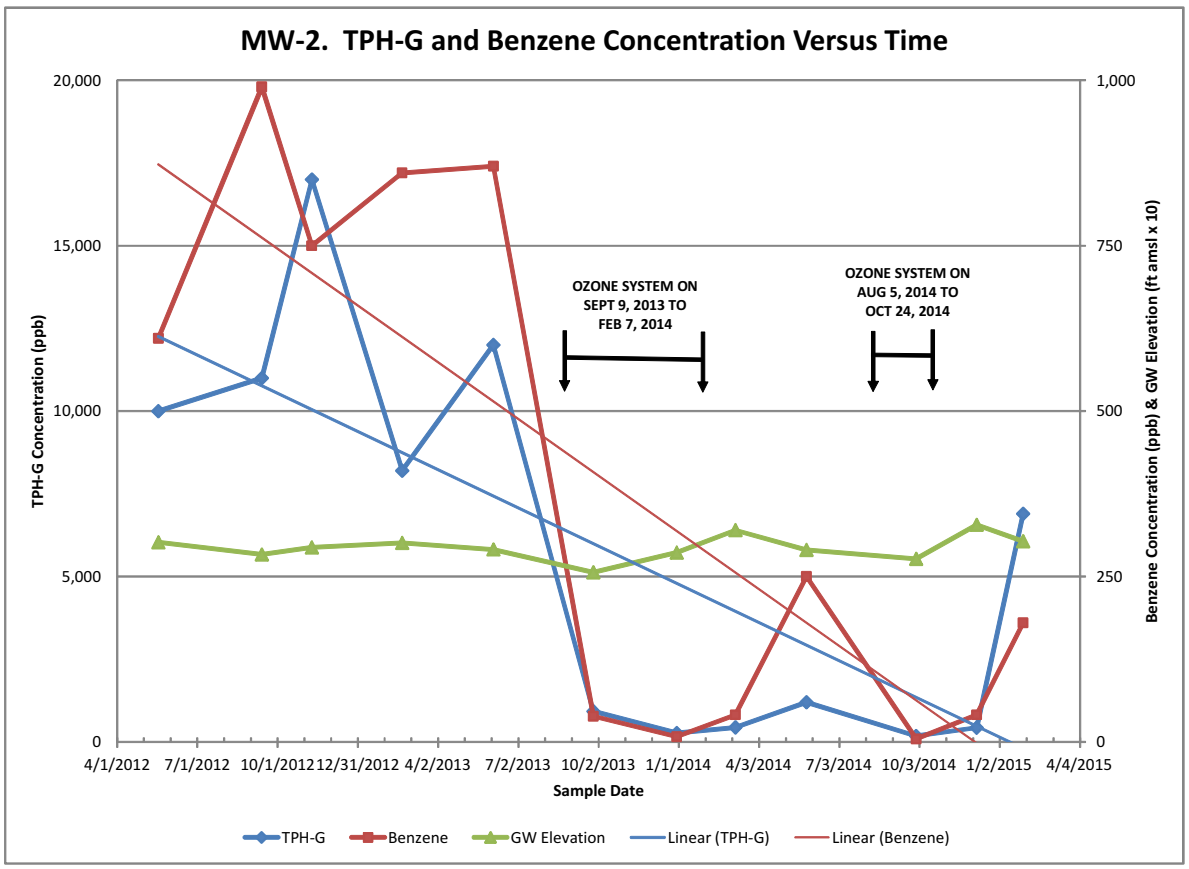
Characteristic	None	Slight	Moderate	Strong	Comments
Color	X				
Odor		X	X		
Turbidity	X				
Sheen	X				
Floating Particles	X				
Precipitate	X				

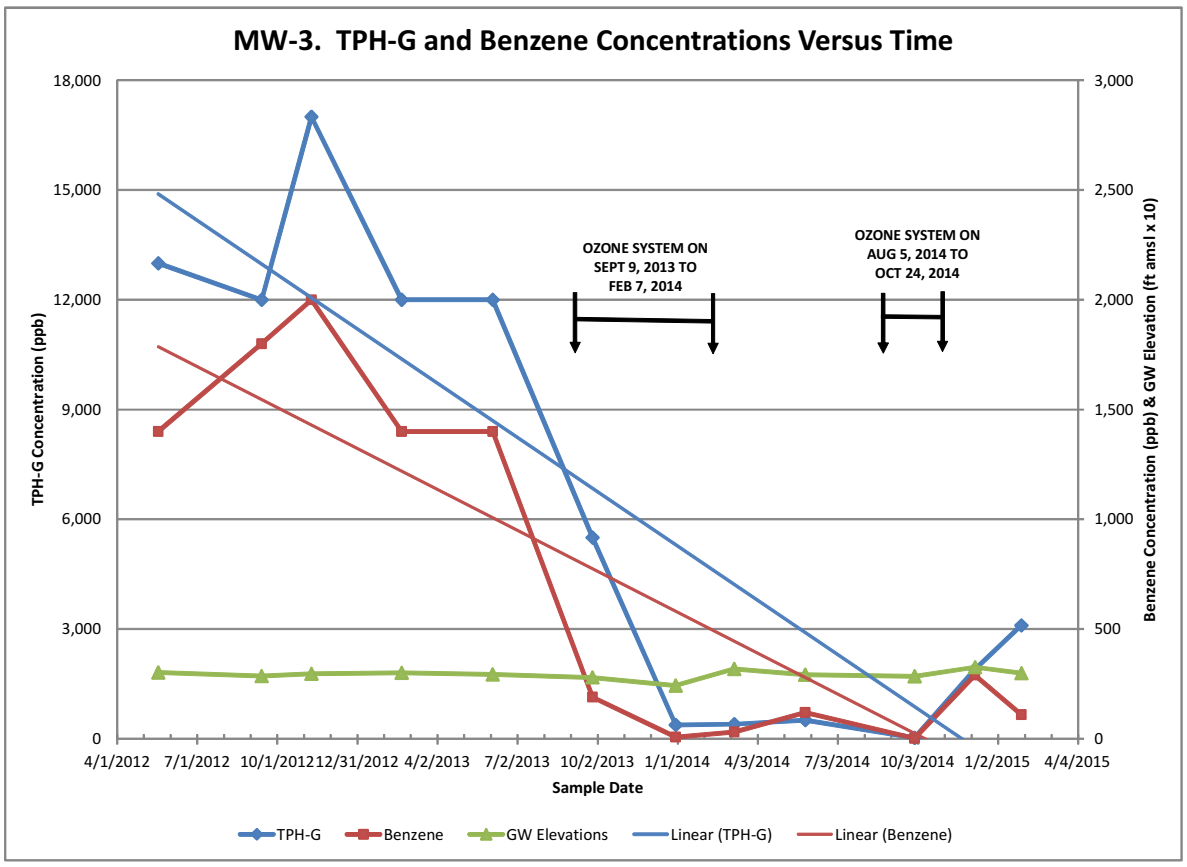
Sample Time: 910 Sampler's Signature: _____

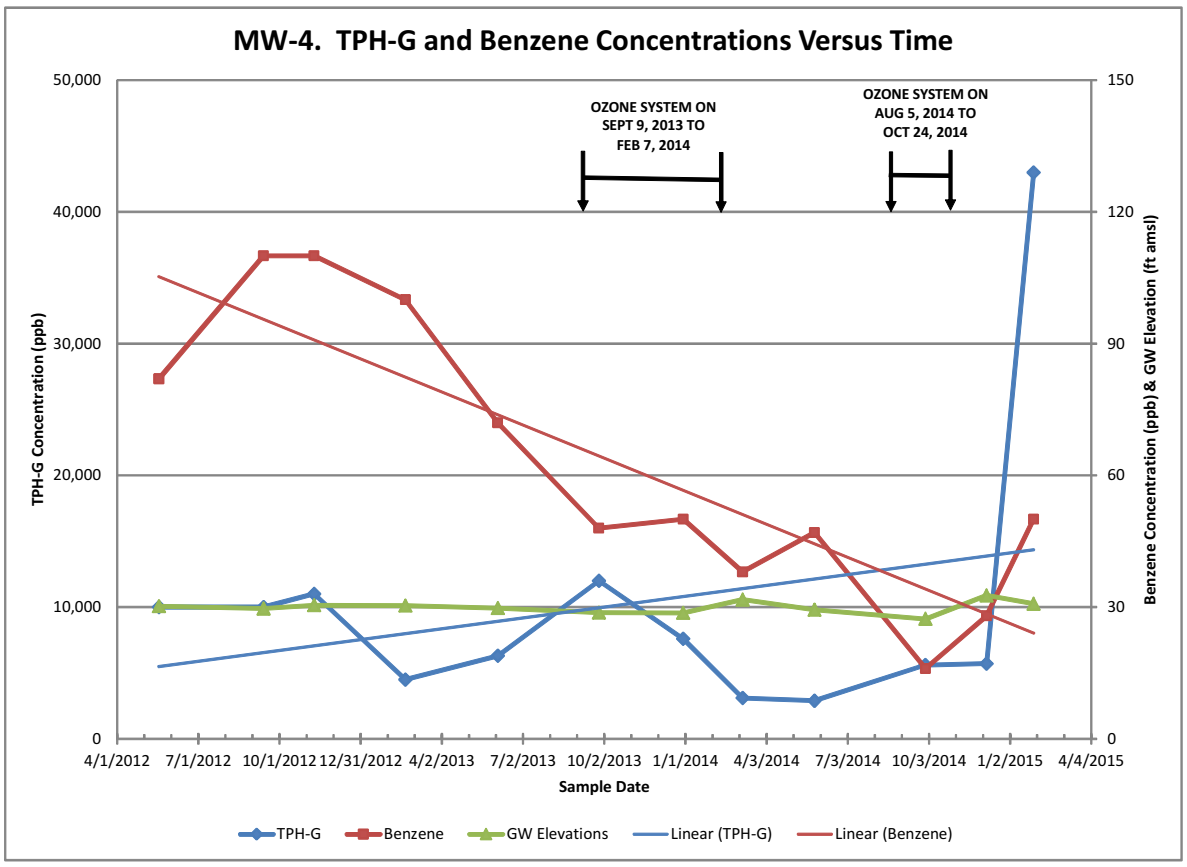
APPENDIX B

GROUNDWATER HYDROCARBON CONCENTRATION TREND GRAPHS


MW-1. TPH-G and Benzene Concentrations Versus Time
TPH-G Concentration (ppb)
Benzene Concentration (ppb) & GW Elevation (ft amsl x 10)
18,000
15,000
12,000
9,000
6,000
3,000
0
1800
1500
1200
900
600
300
0
OZONE SYSTEM ON SEPT 9, 2013 TO FEB 7, 2014
OZONE SYSTEM ON AUG 5, 2014 TO OCT 24, 2014
4/1/2012
7/1/2012
10/1/2012
12/31/2012
4/2/2013
7/2/2013
10/2/2013
1/1/2014
4/3/2014
7/3/2014
10/3/2014
1/2/2015
4/4/2015
Sample Date
TPH-G
GW Elevation
Benzene
Linear (TPH-G)
Linear (Benzene)


MW-2. TPH-G and Benzene Concentration Versus Time
TPH-G Concentration (ppb)
Benzene Concentration (ppb) & GW Elevation (ft amsl x 10)
20,000
15,000
10,000
5,000
0
1,000
750
500
250
0
OZONE SYSTEM ON SEPT 9, 2013 TO FEB 7, 2014
OZONE SYSTEM ON AUG 5, 2014 TO OCT 24, 2014
4/1/2012
7/1/2012
10/1/2012
12/31/2012
4/2/2013
7/2/2013
10/2/2013
1/1/2014
4/3/2014
7/3/2014
10/3/2014
1/2/2015
4/4/2015
Sample Date
TPH-G
Benzene
GW Elevation
Linear (TPH-G)
Linear (Benzene)


MW-3. TPH-G and Benzene Concentrations Versus Time
TPH-G Concentration (ppb)
Benzene Concentration (ppb) & GW Elevation (ft amsl x 10)
OZONE SYSTEM ON SEPT 9, 2013 TO FEB 7, 2014
OZONE SYSTEM ON AUG 5, 2014 TO OCT 24, 2014
Sample Date
TPH-G
Benzene
GW Elevations
Linear (TPH-G)
Linear (Benzene)


MW-4. TPH-G and Benzene Concentrations Versus Time
TPH-G Concentration (ppb)
Benzene Concentration (ppb) & GW Elevation (ft amsl)
OZONE SYSTEM ON SEPT 9, 2013 TO FEB 7, 2014
OZONE SYSTEM ON AUG 5, 2014 TO OCT 24, 2014
Sample Date
TPH-G
Benzene
GW Elevations
Linear (TPH-G)
Linear (Benzene)

APPENDIX C

LABORATORY DATA REPORTS AND CHAIN OF CUSTODY RECORDS

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

16 December 2014

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Maz Glass

Enclosed are the results of analyses for samples received by the laboratory on 12/09/14 10:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T142525-01	Water	12/07/14 08:55	12/09/14 10:05
MW-2	T142525-02	Water	12/07/14 09:25	12/09/14 10:05
MW-3	T142525-03	Water	12/07/14 09:50	12/09/14 10:05
MW-4	T142525-04	Water	12/07/14 10:15	12/09/14 10:05

DETECTIONS SUMMARY

Sample ID: MW-1 **Laboratory ID:** T142525-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**250**	5.0	ug/l	EPA 8260B	
Toluene	**2.8**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**270**	5.0	ug/l	EPA 8260B	
m,p-Xylene	**54**	1.0	ug/l	EPA 8260B	
o-Xylene	**0.51**	0.50	ug/l	EPA 8260B	
C6-C12 (GRO)	**12000**	500	ug/l	EPA 8260B	

Sample ID: MW-2 **Laboratory ID:** T142525-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**41**	0.50	ug/l	EPA 8260B	
Toluene	**1.1**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**4.3**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**3.4**	1.0	ug/l	EPA 8260B	
Tert-butyl alcohol	**25**	10	ug/l	EPA 8260B	
C6-C12 (GRO)	**430**	50	ug/l	EPA 8260B	

Sample ID: MW-3 **Laboratory ID:** T142525-03

Analyte	Result	Reporting Limit	Units	Method	Notes

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

Sample ID: MW-3 **Laboratory ID:** T142525-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**290**	5.0	ug/l	EPA 8260B	
Toluene	**1.8**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**2.1**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**11**	1.0	ug/l	EPA 8260B	
o-Xylene	**1.4**	0.50	ug/l	EPA 8260B	
Tert-butyl alcohol	**30**	10	ug/l	EPA 8260B	
C6-C12 (GRO)	**1900**	500	ug/l	EPA 8260B	

Sample ID: MW-4 **Laboratory ID:** T142525-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**28**	0.50	ug/l	EPA 8260B	
Toluene	**2.9**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**30**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**22**	1.0	ug/l	EPA 8260B	
o-Xylene	**1.2**	0.50	ug/l	EPA 8260B	
C6-C12 (GRO)	**5700**	50	ug/l	EPA 8260B	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

MW-1

T142525-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	4120827	12/08/14	12/10/14	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**250**	5.0	"	10	"	"	"	"	
Toluene	**2.8**	0.50	"	1	"	"	"	"	
Ethylbenzene	**270**	5.0	"	10	"	"	"	"	
m,p-Xylene	**54**	1.0	"	1	"	"	"	"	
o-Xylene	**0.51**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**12000**	500	"	10	"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*		*88.8-117*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*83.5-119*		"	"	"	
Surrogate: Dibromofluoromethane		*99.6 %*		*81.1-136*		"	"	"	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

MW-2

T142525-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	4120827	12/08/14	12/10/14	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**41**	0.50	"	"	"	"	"	"	
Toluene	**1.1**	0.50	"	"	"	"	"	"	
Ethylbenzene	**4.3**	0.50	"	"	"	"	"	"	
m,p-Xylene	**3.4**	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**25**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**430**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*93.1 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.9 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*81.1-136*		"	"	"	"	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

MW-3

T142525-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	4120827	12/08/14	12/10/14	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**290**	5.0	"	10	"	"	"	"	
Toluene	**1.8**	0.50	"	1	"	"	"	"	
Ethylbenzene	**2.1**	0.50	"	"	"	"	"	"	
m,p-Xylene	**11**	1.0	"	"	"	"	"	"	
o-Xylene	**1.4**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**30**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**1900**	500	"	10	"	"	"	"	
Surrogate: Toluene-d8		*88.9 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*81.1-136*		"	"	"	"	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

MW-4

T142525-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	4120827	12/08/14	12/10/14	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**28**	0.50	"	"	"	"	"	"	
Toluene	**2.9**	0.50	"	"	"	"	"	"	
Ethylbenzene	**30**	0.50	"	"	"	"	"	"	
m,p-Xylene	**22**	1.0	"	"	"	"	"	"	
o-Xylene	**1.2**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**5700**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*94.6 %*		*88.8-117*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*		*83.5-119*	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*81.1-136*	"	"	"	"	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120827 - EPA 5030 GCMS										
Blank (4120827-BLK1)				Prepared: 12/08/14 Analyzed: 12/10/14						
Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120827 - EPA 5030 GCMS										
Blank (4120827-BLK1)				Prepared: 12/08/14 Analyzed: 12/10/14						
p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: Toluene-d8	*7.51*		"	*8.00*		*93.9*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.85*		"	*8.00*		*98.1*	*83.5-119*			
Surrogate: Dibromofluoromethane	*8.32*		"	*8.00*		*104*	*81.1-136*			

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	12/16/14 12:00

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120827 - EPA 5030 GCMS										
LCS (4120827-BS1)				Prepared: 12/08/14 Analyzed: 12/10/14						
Chlorobenzene	18.2	1.0	ug/l	20.0		90.9	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0		108	75-125			
Trichloroethene	15.2	1.0	"	20.0		76.1	75-125			
Benzene	19.4	0.50	"	20.0		96.9	75-125			
Toluene	15.9	0.50	"	20.0		79.7	75-125			
Surrogate: Toluene-d8	*7.15*		"	*8.00*		*89.4*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.64*		"	*8.00*		*95.5*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.89*		"	*8.00*		*124*	*81.1-136*			
LCS Dup (4120827-BSD1)				Prepared: 12/08/14 Analyzed: 12/10/14						
Chlorobenzene	20.0	1.0	ug/l	20.0		100	75-125	9.63	20	
1,1-Dichloroethene	18.7	1.0	"	20.0		93.4	75-125	14.3	20	
Trichloroethene	19.0	1.0	"	20.0		95.2	75-125	22.3	20	QR-02
Benzene	19.4	0.50	"	20.0		96.8	75-125	0.0516	20	
Toluene	19.0	0.50	"	20.0		95.0	75-125	17.6	20	
Surrogate: Toluene-d8	*7.69*		"	*8.00*		*96.1*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.04*		"	*8.00*		*100*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.92*		"	*8.00*		*99.0*	*81.1-136*			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Gribi Associates
Address:
Phone: Fax:
Project Manager: J Gribi

Date: 12/8/14 Page: 1 Of 1
Project Name: MAZ GLASS
Collector: J Gribi Client Project #:
Batch #: T142525 EDF #: T0601978682

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY and Scavs, TPH-G	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals					Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	12/7/14	0855	water	4 VOAs			X											01		4
MW-2		0925					X											02		4
MW-3		0950					X											03		4
MW-4		1015					X											04		4

Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
[signature]	12/8/14 930AM	[signature]	12-5-14
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
GSO	12/9/14 1005	[signature]	12/9/14 1005
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time

Total # of containers: 16
Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: Y
Turn around time: STA

Notes: STD. TAT 2.2 12/9/14

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 134576

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates
1090 Adam Street, Suite K
Benicia CA, 94510

Project: Maz Glass
Project Number: [none]
Project Manager: Jim Gribi

Reported: 12/16/14 12:00

Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T142525

Client Name: Gribi Associates Project: Maz Glass

Received by: Dan M. Date/Time Received: 12/9/14 1005

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other _____

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 2.4 °C +/- the CF (- 0.2°C) = 2.2 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐ **No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date DM 12/9/14

Comments:

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 February 2015

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Maz Glass

Enclosed are the results of analyses for samples received by the laboratory on 01/31/15 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T150241-01	Water	01/29/15 08:25	01/31/15 08:40
MW-2	T150241-02	Water	01/29/15 07:55	01/31/15 08:40
MW-3	T150241-03	Water	01/29/15 08:45	01/31/15 08:40
MW-4	T150241-04	Water	01/29/15 09:10	01/31/15 08:40

SunStar Laboratories, Inc.

Katherine RunningCrane, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

DETECTIONS SUMMARY

Sample ID: MW-1 **Laboratory ID:** T150241-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**240**	10	ug/l	EPA 8260B	
Toluene	**3.6**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**210**	10	ug/l	EPA 8260B	
m,p-Xylene	**59**	1.0	ug/l	EPA 8260B	
o-Xylene	**0.51**	0.50	ug/l	EPA 8260B	
C6-C12 (GRO)	**15000**	1000	ug/l	EPA 8260B	

Sample ID: MW-2 **Laboratory ID:** T150241-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**180**	5.0	ug/l	EPA 8260B	
Toluene	**5.4**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**37**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**18**	1.0	ug/l	EPA 8260B	
o-Xylene	**1.2**	0.50	ug/l	EPA 8260B	
C6-C12 (GRO)	**6900**	500	ug/l	EPA 8260B	

Sample ID: MW-3 **Laboratory ID:** T150241-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**110**	0.50	ug/l	EPA 8260B	
Toluene	**0.57**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**9.1**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**1.3**	1.0	ug/l	EPA 8260B	
Tert-butyl alcohol	**53**	10	ug/l	EPA 8260B	
C6-C12 (GRO)	**3100**	50	ug/l	EPA 8260B	

Sample ID: MW-4 **Laboratory ID:** T150241-04

Analyte	Result	Reporting Limit	Units	Method	Notes

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

Sample ID: MW-4 **Laboratory ID:** T150241-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	**50**	0.50	ug/l	EPA 8260B	
Toluene	**7.7**	0.50	ug/l	EPA 8260B	
Ethylbenzene	**70**	0.50	ug/l	EPA 8260B	
m,p-Xylene	**75**	1.0	ug/l	EPA 8260B	
o-Xylene	**4.5**	0.50	ug/l	EPA 8260B	
C6-C12 (GRO)	**43000**	50	ug/l	EPA 8260B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

MW-1

T150241-01 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	5020231	02/02/15	02/04/15	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**240**	10	"	20	"	"	"	"	
Toluene	**3.6**	0.50	"	1	"	"	"	"	
Ethylbenzene	**210**	10	"	20	"	"	"	"	
m,p-Xylene	**59**	1.0	"	1	"	"	"	"	
o-Xylene	**0.51**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**15000**	1000	"	20	"	"	"	"	
Surrogate: Toluene-d8		*87.1 %*	*88.8-117*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*81.1-136*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

MW-2

T150241-02 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	5020231	02/02/15	02/03/15	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**180**	5.0	"	10	"	"	"	"	
Toluene	**5.4**	0.50	"	1	"	"	"	"	
Ethylbenzene	**37**	0.50	"	"	"	"	"	"	
m,p-Xylene	**18**	1.0	"	"	"	"	"	"	
o-Xylene	**1.2**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**6900**	500	"	10	"	"	"	"	
Surrogate: Toluene-d8		*90.2 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*81.1-136*		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

MW-3

T150241-03 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	5020231	02/02/15	02/03/15	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**110**	0.50	"	"	"	"	"	"	
Toluene	**0.57**	0.50	"	"	"	"	"	"	
Ethylbenzene	**9.1**	0.50	"	"	"	"	"	"	
m,p-Xylene	**1.3**	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	**53**	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**3100**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.1 %*	*88.8-117*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*	*81.1-136*		"	"	"	"	

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

MW-4

T150241-04 (Water)

SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dibromoethane (EDB)	ND	1.0	ug/l	1	5020231	02/02/15	02/04/15	EPA 8260B	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Benzene	**50**	0.50	"	"	"	"	"	"	
Toluene	**7.7**	0.50	"	"	"	"	"	"	
Ethylbenzene	**70**	0.50	"	"	"	"	"	"	
m,p-Xylene	**75**	1.0	"	"	"	"	"	"	
o-Xylene	**4.5**	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**43000**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90.9 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*81.1-136*		"	"	"	"	

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020231 - EPA 5030 GCMS										
Blank (5020231-BLK1)				Prepared: 02/02/15 Analyzed: 02/03/15						
1,2-Dibromoethane (EDB)	ND	1.0	ug/l							
1,2-Dichloroethane	ND	0.50	"							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	0.50	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
C6-C12 (GRO)	ND	50	"							
Surrogate: Toluene-d8	*7.49*		"	*8.00*		*93.6*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.04*		"	*8.00*		*88.0*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.78*		"	*8.00*		*97.2*	*81.1-136*			
LCS (5020231-BS1)				Prepared: 02/02/15 Analyzed: 02/04/15						
Chlorobenzene	16.3	1.0	ug/l	20.0		81.3	75-125			
1,1-Dichloroethene	24.1	1.0	"	20.0		120	75-125			
Trichloroethene	23.1	1.0	"	20.0		115	75-125			
Benzene	17.8	0.50	"	20.0		88.8	75-125			
Toluene	17.4	0.50	"	20.0		87.2	75-125			
Surrogate: Toluene-d8	*7.39*		"	*8.00*		*92.4*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.15*		"	*8.00*		*102*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.69*		"	*8.00*		*121*	*81.1-136*			
Matrix Spike (5020231-MS1)	**Source: T150241-02**			Prepared: 02/02/15 Analyzed: 02/04/15						
Chlorobenzene	20.5	1.0	ug/l	20.0	ND	103	75-125			
1,1-Dichloroethene	23.7	1.0	"	20.0	ND	118	75-125			
Trichloroethene	21.6	1.0	"	20.0	ND	108	75-125			
Benzene	242	0.50	"	20.0	180	306	75-125			QM-4X
Toluene	24.4	0.50	"	20.0	5.39	95.2	75-125			
Surrogate: Toluene-d8	*7.60*		"	*8.00*		*95.0*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*7.96*		"	*8.00*		*99.5*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.17*		"	*8.00*		*115*	*81.1-136*			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020231 - EPA 5030 GCMS										
Matrix Spike Dup (5020231-MSD1)	**Source: T150241-02**			Prepared: 02/02/15 Analyzed: 02/04/15						
Chlorobenzene	17.2	1.0	ug/l	20.0	ND	85.8	75-125	17.9	20	
1,1-Dichloroethene	22.3	1.0	"	20.0	ND	111	75-125	6.14	20	
Trichloroethene	24.5	1.0	"	20.0	ND	123	75-125	12.8	20	
Benzene	253	0.50	"	20.0	180	361	75-125	4.45	20	QM-4X
Toluene	18.6	0.50	"	20.0	5.39	66.0	75-125	27.2	20	QR-02
Surrogate: Toluene-d8	*7.59*		"	*8.00*		*94.9*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.60*		"	*8.00*		*108*	*83.5-119*			
Surrogate: Dibromofluoromethane	*9.36*		"	*8.00*		*117*	*81.1-136*			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
25712 Commercentre Dr
Lake Forest, CA 92630
949-297-5020

Chain of Custody Record

Client: Gribi Associates
Address:
Phone: Fax:
Project Manager: Gribi

Date: 1/30/15 Page: 1 of 1
Project Name: Maz Glass
Collector: Gribi Client Project #:
Batch #: 115024 EDF #: T0601788882

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY ~~only~~ TPH-G, Pb SCAV	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals				Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	1/29/15	0825	WTR	4 VOA			X										01		3
MW-2		0755					X										02		
MW-3		0845					X										03		
MW-4		0910					X										04		

Relinquished by: (signature) Date / Time 1/30/15 0900 Received by: (signature) Date / Time 1-30-15 900

Relinquished by: (signature) Date / Time 1-31-15 840 Received by: (signature) Date / Time 1-31-15 840

Relinquished by: (signature) Date / Time Received by: (signature) Date / Time

Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: Y

Total # of containers: 16

Notes: STD. TAT

Turn around time: STA

Sample disposal Instructions: Disposal @ $2.00 each ____ Return to client ____ Pickup ____

COC 132487

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:06

Notes and Definitions

S-GC	Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # T150241

Client Name: Gribi Project: Maz Glass

Received by: Dan M. Date/Time Received: 1-31-15 840

Delivered by : ☐ Client ☐ SunStar Courier ☒ GSO ☐ FedEx ☐ Other

Total number of coolers received 1 **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 1.6 °C +/- the CF (- 0.2°C) = 1.4 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling.	☒Yes	☐No*	☐N/A
Custody Seals Intact on Cooler/Sample	☒Yes	☐No*	☐N/A
Sample Containers Intact	☒Yes	☐No*	
Sample labels match COC ID's	☒Yes	☐No*	
Total number of containers received match COC	☒Yes	☐No*	
Proper containers received for analyses requested on COC	☒Yes	☐No*	
Proper preservative indicated on COC/containers for analyses requested	☒Yes	☐No*	☐N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. ☒ **Yes** ☐**No***

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date DM 1-31-15

Comments:

_____

_____

_____

_____

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

09 February 2015

Jim Gribi
Gribi Associates
1090 Adam Street, Suite K
Benicia, CA 94510

RE: Maz Glass

Enclosed are the results of analyses for samples received by the laboratory on 01/31/15 08:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane

Katherine RunningCrane
Project Manager

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-2	T150242-01	Air	01/29/15 13:13	01/31/15 08:40
SG-4	T150242-02	Air	01/29/15 12:40	01/31/15 08:40
SG-5	T150242-03	Air	01/29/15 11:54	01/31/15 08:40

SunStar Laboratories, Inc.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

DETECTIONS SUMMARY

Sample ID: SG-2 **Laboratory ID:** T150242-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Cyclohexane	**53**	3.5	ug/m³ Air	TO-15	
Heptane	**14**	4.2	ug/m³ Air	TO-15	
Hexane	**42**	3.6	ug/m³ Air	TO-15	
Trichloroethene	**16**	5.5	ug/m³ Air	TO-15	
Methane	**330000**	5800	ug/m³ Air	8015M	AO-1
Oxygen	**2.11**	1.75	%	GC	
Nitrogen	**59.2**	0.75	%	GC	

Sample ID: SG-4 **Laboratory ID:** T150242-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Cyclohexane	**52000**	170	ug/m³ Air	TO-15	TO-14
Heptane	**9800**	210	ug/m³ Air	TO-15	TO-14
Hexane	**26000**	180	ug/m³ Air	TO-15	TO-14
Methane	**81000000**	33000	ug/m³ Air	8015M	AO-1
C6-C12 (GRO)	**440000**	7170	ug/m³ Air	TO-3/TO-14 m	
Carbon Dioxide	**6.49**	1.72	%	GC	
Nitrogen	**64.5**	0.72	%	GC	

Sample ID: SG-5 **Laboratory ID:** T150242-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrahydrofuran	**47**	3.0	ug/m³ Air	TO-15	
Tetrachloroethene	**8.7**	6.9	ug/m³ Air	TO-15	
2-Butanone (MEK)	**47**	15	ug/m³ Air	TO-15	
Methane	**2100000**	5100	ug/m³ Air	8015M	AO-1
Oxygen	**2.10**	1.54	%	GC	
Nitrogen	**41.9**	0.54	%	GC	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-2

T150242-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Acetone	ND	12	ug/m³ Air	1.75	5020228	02/02/15	02/04/15	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	**53**	3.5	"	"	"	"	"	"	
Heptane	**14**	4.2	"	"	"	"	"	"	
Hexane	**42**	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-2

T150242-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	3.5	ug/m³ Air	1.75	5020228	02/02/15	02/04/15	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	**16**	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*58.2 %*		*40-160*		"	"	"	
Methane by GC									
Methane	**330000**	5800	ug/m³ Air	1.75	5020226	02/02/15	02/04/15	8015M	AO-1

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-2

T150242-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	1.75	5020227	02/02/15	02/05/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Helium	0.00		%	1.75	5020225	02/02/15	02/03/15	GC	
Carbon Dioxide	ND	1.75	"	"	"	"	"	"	
Oxygen	**2.11**	1.75	"	"	"	"	"	"	
Nitrogen	**59.2**	0.75	"	0.75	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-4

T150242-02 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Acetone	ND	120	ug/m³ Air	1.72	5020228	02/02/15	02/05/15	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	**52000**	170	"	15.48	"	"	"	"	TO-14
Heptane	**9800**	210	"	"	"	"	"	"	TO-14
Hexane	**26000**	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	1.72	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-4

T150242-02 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	180	ug/m³ Air	1.72	5020228	02/02/15	02/05/15	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	ND	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14
Methane by GC									
Methane	**81000000**	33000	ug/m³ Air	10	5020226	02/02/15	02/04/15	8015M	AO-1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-4

T150242-02 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	**440000**	7170	ug/m³ Air	15.48	5020227	02/02/15	02/05/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Helium	0.00		%	1.72	5020225	02/02/15	02/03/15	GC	
Carbon Dioxide	**6.49**	1.72	"	"	"	"	"	"	
Oxygen	ND	1.72	"	"	"	"	"	"	
Nitrogen	**64.5**	0.72	"	0.72	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-5

T150242-03 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Acetone	ND	12	ug/m³ Air	1.54	5020228	02/02/15	02/04/15	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-5

T150242-03 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Methylene chloride	ND	3.5	ug/m³ Air	1.54	5020228	02/02/15	02/04/15	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	**47**	3.0	"	"	"	"	"	"	
Tetrachloroethene	**8.7**	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	**47**	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*59.0 %*		*40-160*		"	"	"	
Methane by GC									
Methane	**2100000**	5100	ug/m³ Air	1.54	5020226	02/02/15	02/04/15	8015M	AO-1

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

SG-5

T150242-03 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Volatile Organic Compounds by TO-3 (modified)									
C6-C12 (GRO)	ND	7170	ug/m³ Air	1.54	5020227	02/02/15	02/05/15	TO-3/TO-14 m	
Fixed Gases ASTM D1946-90									
Helium	0.00		%	1.54	5020225	02/02/15	02/03/15	GC	
Carbon Dioxide	ND	1.54	"	"	"	"	"	"	
Oxygen	**2.10**	1.54	"	"	"	"	"	"	
Nitrogen	**41.9**	0.54	"	0.54	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020228 - EPA 5030 GCMS										
Blank (5020228-BLK1)				Prepared: 02/02/15 Analyzed: 02/04/15						
Acetone	ND	12	ug/m³ Air							
1,3-Butadiene	ND	4.5	"							
Carbon Disulfide	ND	3.2	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"							
Isopropyl alcohol	ND	13	"							
Bromodichloromethane	ND	6.8	"							
Bromoform	ND	11	"							
Bromomethane	ND	4.0	"							
Carbon tetrachloride	ND	6.4	"							
Chlorobenzene	ND	4.7	"							
Chloroethane	ND	2.7	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	11	"							
Cyclohexane	ND	3.5	"							
Heptane	ND	4.2	"							
Hexane	ND	3.6	"							
Dibromochloromethane	ND	8.7	"							
1,2-Dibromoethane (EDB)	ND	7.8	"							
1,2-Dichlorobenzene	ND	6.1	"							
1,3-Dichlorobenzene	ND	6.1	"							
1,4-Dichlorobenzene	ND	6.1	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	4.1	"							
1,2-Dichloroethane	ND	4.1	"							
1,1-Dichloroethene	ND	4.0	"							
cis-1,2-Dichloroethene	ND	4.0	"							
trans-1,2-Dichloroethene	ND	4.0	"							
1,2-Dichloropropane	ND	4.7	"							
cis-1,3-Dichloropropene	ND	4.6	"							
trans-1,3-Dichloropropene	ND	4.6	"							
4-Ethyltoluene	ND	5.0	"							
Methylene chloride	ND	3.5	"							
Styrene	ND	4.3	"							
1,1,2,2-Tetrachloroethane	ND	7.0	"							
Tetrahydrofuran	ND	3.0	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020228 - EPA 5030 GCMS										
Blank (5020228-BLK1)				Prepared: 02/02/15 Analyzed: 02/04/15						
Tetrachloroethene	ND	6.9	ug/m³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
Surrogate: 4-Bromofluorobenzene	*26.9*		"	*45.3*		*59.4*	*40-160*			
Duplicate (5020228-DUP1)	**Source: T150242-01**			Prepared: 02/02/15 Analyzed: 02/04/15						
Acetone	ND	12	ug/m³ Air		ND				30	
1,3-Butadiene	ND	4.5	"		ND				30	
Carbon Disulfide	ND	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"		ND				30	
Isopropyl alcohol	ND	13	"		ND				30	
Bromodichloromethane	ND	6.8	"		ND				30	
Bromoform	ND	11	"		ND				30	
Bromomethane	ND	4.0	"		ND				30	
Carbon tetrachloride	ND	6.4	"		ND				30	
Chlorobenzene	ND	4.7	"		ND				30	
Chloroethane	ND	2.7	"		ND				30	
Chloroform	ND	5.0	"		ND				30	
Chloromethane	ND	11	"		ND				30	
Cyclohexane	45.1	3.5	"		52.7			15.4	30	
Heptane	13.7	4.2	"		13.7			0.00	30	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020228 - EPA 5030 GCMS										
Duplicate (5020228-DUP1)	**Source: T150242-01**			Prepared: 02/02/15 Analyzed: 02/04/15						
Hexane	32.4	3.6	ug/m³ Air		42.0			26.0	30	
Dibromochloromethane	ND	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	6.1	"		ND				30	
Dichlorodifluoromethane	ND	5.0	"		ND				30	
1,1-Dichloroethane	ND	4.1	"		ND				30	
1,2-Dichloroethane	ND	4.1	"		ND				30	
1,1-Dichloroethene	ND	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	4.0	"		ND				30	
1,2-Dichloropropane	ND	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	4.6	"		ND				30	
4-Ethyltoluene	ND	5.0	"		ND				30	
Methylene chloride	ND	3.5	"		ND				30	
Styrene	ND	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	7.0	"		ND				30	
Tetrahydrofuran	ND	3.0	"		ND				30	
Tetrachloroethene	ND	6.9	"		ND				30	
1,1,2-Trichloroethane	ND	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	5.6	"		ND				30	
Trichloroethene	17.2	5.5	"		16.2			6.30	30	
Trichlorofluoromethane	ND	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	5.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	5.0	"		ND				30	
Vinyl acetate	ND	3.6	"		ND				30	
Vinyl chloride	ND	2.6	"		ND				30	
1,4-Dioxane	ND	18	"		ND				30	
2-Butanone (MEK)	ND	15	"		ND				30	
Methyl isobutyl ketone	ND	42	"		ND				30	
Benzene	ND	3.3	"		ND				30	
Toluene	ND	3.8	"		ND				30	
Ethylbenzene	ND	4.4	"		ND				30	
m,p-Xylene	ND	8.8	"		ND				30	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020228 - EPA 5030 GCMS										
Duplicate (5020228-DUP1)	**Source: T150242-01**			Prepared: 02/02/15 Analyzed: 02/04/15						
o-Xylene	ND	4.4	ug/m³ Air		ND				30	
Surrogate: 4-Bromofluorobenzene	*27.0*		"	*45.3*		*59.7*	*40-160*			

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

Methane by GC - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020226 - General Prep VOC-GC										
Blank (5020226-BLK1)				Prepared: 02/02/15 Analyzed: 02/04/15						
Methane	ND	3300	ug/m³ Air							
Duplicate (5020226-DUP1)	**Source: T150242-01**			Prepared: 02/02/15 Analyzed: 02/04/15						
Methane	271000	5800	ug/m³ Air		331000			19.8	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

Total Volatile Organic Compounds by TO-3 (modified) - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020227 - EPA 5030 GCMS										
Blank (5020227-BLK1)				Prepared: 02/02/15 Analyzed: 02/04/15						
C6-C12 (GRO)	ND	7170	ug/m³ Air							
Duplicate (5020227-DUP1)		**Source: T150242-01**		Prepared: 02/02/15 Analyzed: 02/05/15						
C6-C12 (GRO)	1880	7170	ug/m³ Air		1940			3.28	30	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

Fixed Gases ASTM D1946-90 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5020225 - EPA 5030 GC										
Blank (5020225-BLK1)				Prepared: 02/02/15 Analyzed: 02/03/15						
Helium	0.00		%							
Carbon Dioxide	ND	1.00	"							
Oxygen	ND	1.00	"							
Nitrogen	ND	1.00	"							
Duplicate (5020225-DUP1)		**Source: T150242-01**		Prepared: 02/02/15 Analyzed: 02/03/15						
Helium	0.00		%		0.00					
Carbon Dioxide	1.24	1.75	"		1.35			8.37	20	
Oxygen	1.86	1.75	"		2.11			12.8	20	
Nitrogen	58.6	0.75	"		59.2			1.08	20	

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Gribi Associates	Project: Maz Glass	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	02/09/15 12:08

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
AO-1	Sample Was Collected in Summa Canister, Hold Time Increased
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

AIR LABORATORY

Chain of Custody Record

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide
25712 Commercentre Drive, Lake Forest, CA 92630
949-297-5020

Client: Gribi Associates
Address:
Phone: Fax:
Project Manager: Jim Gribi

Date: 1/30/15 Page: 1 of 1
Project Name: MAZ GLASS
Collector: J. GRIBI
Batch #: T150242
Client Project #:
EDF #:

Sample ID	Date Sampled	Start Time	Finish Time	Sample Type: Soil Gas / Indoor Air	Container Type: Summa Can / Tedlar	Initial Pressure	Final Pressure	TO-3 TPH-G	TO-14	TO-15	8015m Methane	8015m Gasoline	Fixed Gases by TCD H_2, CO_2, O_2, N_2	Summa Can # / Comments	Laboratory ID #
SG-2	1/28/15	1305	1313	SG	1L Summa	-30	-5	X		X	X	X	X	SCAT-0133	01
SG-4		1232	1240	"	"	-30	-4	X		X	X	X	X	-0056	02
SG-5	↓	1149	1154	"	"	-30	-2	X		X	X	X	X	-0058	03

Relinquished by: (signature) Date / Time: 1/30/15 920
Received by: (signature) Date / Time:
Relinquished by: (signature) Date / Time:
Received by: (signature) Date / Time: 1-31-15 840
Relinquished by: (signature) Date / Time:
Received by: (signature) Date / Time: 1-31-15 840

Total # of containers: 3
Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: Y

Turn around time: STH

Notes: 1-31-15

* TO-15 SIM analysis available upon prior notification. **(Precertified Summa cans needed)**

COCAL 145299

T150242

SunStar Laboratories, Inc.

PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

Company: GRIBI	**Name:** JIM
Item:	**Quantity:**
2 oz jars 24/CS	
4 oz jars 24/CS	
8 oz jars 12/CS	
40 ml unp. Voas 72/BOX	
40 ml HCL Voas 72/BOX	
250 ml Poly 60/CS	
1 Liter Poly 30/CS	
500 ml Poly 16/CS	
500 ml Amber Bottle Wide 12/CS	
1 Liter Amber Bottle 12/CS	
1 Gallon Poly 4/BOX	
5035 kits:(2)Sodium Bisulfate Voas 72/BOX	
(1) Methanol Voa 72/BOX	
(1)Syringe 50/PACK	
Lock-N-Load Handle 1/PACK	
Tedlar Bags 10/PACK	
Manifold,Inst Sampler, Var. Sampler	2-150 MANIFOLDS **2 RETURNED**
Sub Slab Insert w/ washer	
Soil Gas Drop Tubes	
Gas extraction fittings	
Soil Gas Filters	
B.C. Summa Cans **400cc:**	
1L:	2-N2,3-PURGE
3L:	
6L:	
Certified Summa Cans **400cc:**	
1L:	6 **CHARGE FOR 3**
3L:	
6L:	
Cooler (S,MED,LRG) Number & Quantity	
Swagelok Fittings: Ferrules,Unions, Nuts	6/NF **CHARGE FOR 6**
Other: Poly Tube, Tools, etc	
Prepared By: BRIAN	**Date:** 1/27/15
Reviewed By:	**Date :**

SunStar Laboratories Inc.
25712 Commercentre Dr.
Lake Forest, CA 92630
(949)297-5020
(949)297-5027 fax

T150242

SunStar Laboratories

* PLEASE DO **NOT** WRITE ON OR PLACE LABELS ON SUMMA CANS

Canister Data Sheet

Form F-LP0005-12
Effective Date 01/01/2013

Client: GRIBI_JIM_1-27-15_11+2

Shipping Information			Sampling Information							
Canister Serial #	CHECK Date	Pressure (-30 +/- 2 psia)	Sample ID	Sample Date	Initial Pressure	Final Pressure	Sample Start Time	Sample Finish Time
SSAT- 0056	1/27/2015	-30	SG-4		30	4	1232	1240
SSAT- 0058	1/27/2015	-30	SG-5		30	2	1149	1154
SSAT- 0123	1/27/2015	-30						
SSAT- 0133	1/27/2015	-30	SG-2		30	5	1305	1313
SSAT- 0198	1/27/2015	-30	SG-3 Sucked WTF - USED					
SSAT- 0461	1/27/2015	-30						
SSAT- 2056	1/27/2015		MANIFOLD 150					
SSAT- 2071	1/27/2015		MANIFOLD 150					
SSAT- 0116	1/27/2015	30	NITROGEN FILLED					
SSAT- 0126	1/27/2015	30	NITROGEN FILLED					
SSAT-				SG-2	30	WTF	1105	
SSAT- 0453	1/27/2015	-30	PURGE CAN ONLY			15/WTF	1235/1250	1229/WTF
SSAT- 0606	1/27/2015	-30	PURGE CAN ONLY	SG-4/SG-5	30/WTF	15/WTF	1142/1200	1146/WTF
SSAT- 0712	1/27/2015	-30	PURGE CAN ONLY	SG-5/3	30/15			

APPENDIX D

WELL SURVEY FROM FORMER AMBASSADOR LAUNDRY SITE

7.0 PREFERENTIAL PATHWAY AND POTENTIAL RECEPTOR SURVEY

The Site is located along the City of Emeryville southern boundary with the City of Oakland. Kleinfelder conducted a preferential pathway survey (Survey) within a 2,000-foot radius of the Site. The survey consisted of obtaining and reviewing well records to identify potential groundwater plume receptors (monitoring, municipal and private water supply wells) and assessing the location of sewer and storm-drain lines that could serve as potential preferential pathways for contaminants in the subsurface.

Well records were obtained from the State of California Department of Water Resources (DWR) and the Alameda County Public Works Agency (ACPW). Storm-drain and sewer line maps for were requested from the City of Emeryville and the City of Oakland. DWR and ACPW records reviewed for this survey included well driller reports, well location sketches/maps, boring logs, and well completion logs for 197 wells in the area.

Plate 8 shows the approximate locations of 23 sites on which wells have been identified within the 2,000-foot search radius. A total of ninety-eight monitoring wells, one cathodic well, and one industrial well, were identified within the 2,000 feet radius. Copies of the Driller's Reports provided by the DWR and the results of the PWA well search are provided as Appendix E.

In 1995 one monitoring well was installed at the Site to a total depth of 25 feet. The well was installed to assess ground water conditions in the vicinity of the UST-HO removed in 1995. The ACEH closed the UST-HO leaking underground storage fuel tank (LUFT) case in a letter dated February 13, 1997. The monitoring well is assumed to have been abandoned, probably during building demolition activities in 2005, because the geophysical survey conducted at the Site in August 2007 did not reveal the presence of the monitoring well.

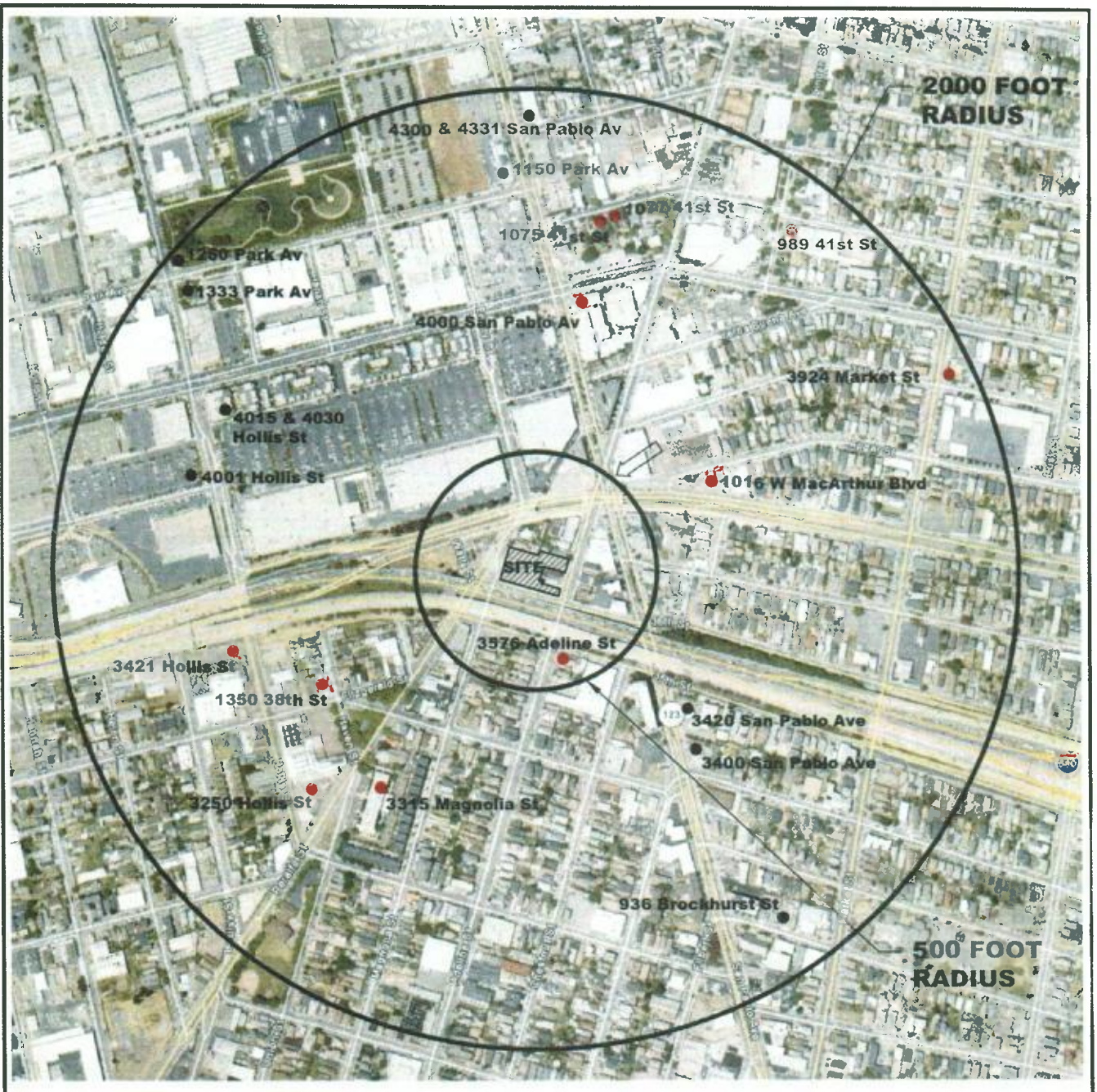
One industrial well and three groundwater monitoring wells are located at 3516 Adeline Street, approximately 300 feet southeast of the Site, in the cross-gradient ground water flow direction. The industrial well was installed in 1936, to a total depth of 97 feet, and the groundwater monitoring wells were installed in 1992 to a depth of 30 feet in association with an ongoing case with the ACEH.

The 120-foot cathodic well located more than 1,600 feet northeast of the Site was installed in 1974 approximately 61 feet east from the intersection of Apgar Street and Market Street. The deepest ground water monitoring well identified within the 2,000 feet radius is a 43 feet deep well located 1,300 feet northwest of the Site at the northwest corner of Yerba Buena and Hollis Streets, up-gradient ground water flow direction from the Site.

The remaining 93 monitoring wells identified within the 2,000 feet radius are located 680 feet or more away from the Site, and range in depth from 17 to 35 feet bgs. Of these 93 wells, seven wells are located in the down-gradient ground water flow direction of the Site; with the closest well located approximately 900 feet to the southwest. The seven down-gradient wells range in depth from 22 to 25 feet bgs. Due to their maximum depth (25 feet bgs), these down-gradient wells are not considered potential deep well conduits.

The sewer and storm-drain maps indicate two sewer lines bordering the east and west sides of the Site running south from the City of Emeryville into the City of Oakland; one sewer line along Adeline Street continuing on Adeline Street in Oakland, and another sewer line running south on San Pablo Avenue that continues running south on Peralta Street in the City of Oakland (Appendix E). Sewer and storm-drain lines also run along 36th Street, with flow towards the west and then south on Peralta. Sewer pipelines under streets down-gradient of the Site have flow lines at elevations lower than the groundwater surface elevation at the Site. Given that petroleum hydrocarbons do not appear to have migrated offsite and the plume is stable and attenuating, these utility lines are not believed to be acting as conduits for offsite migration of chemical of concern.

In summary, given the depth of offsite wells within a 2,000 feet radius and their distance to the Site, as well as the depth to water and the stratigraphy of the area, no apparent potential receptors will likely be impacted by petroleum hydrocarbons from the Site. Likewise, review of the sewer and storm drain lines in the Site's immediate vicinity suggests that, due to the depth of the groundwater table (approximately 20 feet bgs) sewer and storm drain lines are not acting as preferential pathways for contaminants in the subsurface.



600 300 0 600

APPROXIMATE SCALE (feet)

REFERENCE: Google Earth Pro, 2009

N

LEGEND

GROUNDWATER FLOW DIRECTION

WELLS OR GROUP OF WELLS NOT IN GROUNWATER FLOW DIRECTION

WELLS OR GROUP OF WELLS IN GROUNWATER FLOW DIRECTION

NOTE: Locations are approximate.

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.	73943
DRAWN:	MAY 2009
DRAWN BY:	JDS
CHECKED BY:	AD
FILE NAME:	WELL SURVEY.dwg

2,000 FEET RADIUS WELL SURVEY

FORMER AMBASSADOR LAUNDRY
3601-3623 ADELINE STREET
EMERYVILLE, CALIFORNIA

PLATE **8**

PLOTTED: 01 Jun 2009, 9:12am, jsala
CAD FILE: D:_PROJECTS\73943\PWRREP\ LAYOUT: Layout1
PLEASANTON, CA