September 7, 2012

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

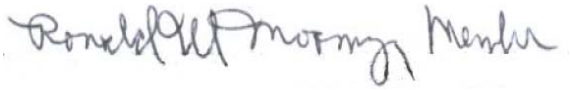
Attention: Mark Detterman

Subject: Soil and Groundwater Investigation Report
1355 55th Street Emeryville, Ca
ACDEH Site No. RO0000046

Ladies and Gentlemen:

Attached please find a copy of the *Soil and Groundwater Investigation Report* 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,



Ronald W. Mooney, Member
California Syrup & Extract Co. LLC
PO Box 8305
Emeryville, CA 94608

SOIL AND GROUNDWATER INVESTIGATION REPORT

Former California Syrup & Extract UST Site
1355 55th Street
Emeryville, California
ACDEH Site No. RO0000046

Prepared for:

Mr. Ronald W. Mooney
California Syrup& Extract Co., LLC
PO Box 8305
Emeryville, CA 94608

September 7, 2012

GRIBI ASSOCIATES

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GRIBI
ASSOCIATES

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Attention: Mark Detterman

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Former California Syrup & Extract UST Site
1355 55th Street, Emeryville, Ca
ACDEH Site No. RO0000046

Ladies and Gentlemen:

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of California Syrup & Extract underground storage tank (UST) site (Site) located at 1355 55th Street in Emeryville, California. This report documents the drilling and sampling of one investigative boring B-1 and the drilling, installation, and sampling of two groundwater monitoring wells, MW-3 and MW-4, on the Site. The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this Site.

We appreciate the opportunity to present this report for your review. Please call if you have any questions or require additional information.

Very truly yours,

James E. Gribi
Registered Geologist
California No. 5843

JEG/ct

c Mr. Ron Mooney, California Syrup & Extract, LLC

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EXECUTIVE SUMMARY

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of California Syrup & Extract for the former California Syrup & Extract underground storage tank (UST) site (Site) located at 1355 55th Street in Emeryville, California. This report documents the drilling and sampling of one investigative boring, B-1, and the drilling, installation, and sampling of two shallow groundwater monitoring wells, MW-3 and MW-4, on the Site. The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this Site.

One investigative boring, B-1, and the two groundwater monitoring wells, MW-3 and MW-4, were drilled and installed on August 1, 2012. The two newly-installed wells were developed on August 7, 2012, and the two new wells and two existing Site wells were purged and sampled on August 16, 2012. All activities were conducted in accordance with the approved workplan and with applicable guidelines and statutes.

Soils encountered in boring B-1 and in well boring MW-3 were generally similar, consisting of dark grey silty clays (Bay Mud) down to approximately ten feet in depth, followed by sandy gravels and silty sands to respective total depths of 16 feet and 15 feet below surface grade. In well boring MW-4, Bay Mud silty clays were encountered down to approximately 14.5 feet in depth, followed by light brown gravelly clays from 14.5 feet to 20 feet, total boring depth. Free groundwater was encountered in the approximately 11 feet in depth in boring B-1 and well boring MW-3. Free groundwater was not encountered in well boring MW-4. No hydrocarbon odors or staining, and no PID detections, were encountered in soils from any of the investigative or well borings.

Groundwater elevation gradient is approximately 0.027 ft/ft to the west-southwest. Soil and groundwater samples from investigative boring B-1 and from newly-installed wells MW-3 and MW-4 showed no significant hydrocarbon detections and relatively low (apparent background) levels of ammonia and nitrogen. The groundwater sample from upgradient boring MW-1 showed no significant hydrocarbon detections. The groundwater sample from source area well MW-2 showed low levels of primarily gasoline-range hydrocarbon constituents.

Both field and laboratory analytical results indicate that: (1) Groundwater elevation gradient beneath the Site is to the west-southwest, as would be expected in the site vicinity; and (2) Hydrocarbons present in groundwater in source area well MW-2 have not migrated a significant distance west-southwest from the UST source area itself.

Based on the results of this and previous investigation, we recommend that regulatory closure be granted for this site. The preponderance of evidence clearly shows that this site meets generally-accepted closure criteria and should be granted regulatory site closure as a “low risk” site with unrestricted land use. Specifically, site closure should be granted because: (1) The contaminant sources have been mitigated; (2) The site has been adequately characterized; (3) The contaminant plume is not migrating, and chemical concentrations in groundwater are expected to meet water

quality objectives in the future; (4) No other waters of the State, water supply wells, or other sensitive receptors are likely to be impacted; and (5) The site does not pose a significant risk to human or environmental receptors.

1.0 INTRODUCTION

Gribi Associates is pleased to submit this *Soil and Groundwater Investigation Report* on behalf of California Syrup & Extract underground storage tank (UST) site (Site) located at 1355 55th Street in Emeryville, California (see Figure 1 and Figure 2). This report documents the drilling and sampling of one investigative boring B-1, the drilling, installation, and sampling of two shallow groundwater monitoring wells, MW-3 and MW-4. The goal of these activities has been to provide additional site characterization as necessary to achieve regulatory closure of this Site.

1.1 Scope of Work

Gribi Associates was contracted by California Syrup & Extract to conduct the following scope of work.

- **Task 1 Conduct prefield activities.**
- **Task 2 Install and sample two groundwater monitoring wells.**
- **Task 3 Conduct soil boring sampling and lab analyses.**
- **Task 4 Conduct groundwater monitoring, sampling and lab analyses.**
- **Task 5 Prepare report of findings.**

These tasks were conducted in accordance with the approved workplan and with generally accepted sampling guidelines and protocols.

1.2 Limitations

The services provided under this contract as described in this report include professional opinions and judgments based on data collected. These services have been provided according to generally accepted environmental protocol. The opinions and conclusions contained in this report are typically based on information obtained from:

1. Observations and measurements made by our field staff.
2. Contacts and discussions with regulatory agencies and others.
3. Review of available hydrogeologic data.

2.0 SITE DESCRIPTION AND BACKGROUND

2.1 General Site Description

The Site is located in a mixed commercial and residential area of Emeryville, with primarily residential land use to the north, east, and south, and primarily commercial/industrial land use to the west. The Site is located on a gently west-sloping plain approximately one-half mile southeast from the San Francisco Bay. Based on proximity to the bay, we would expect groundwater flow direction to be to the west-southwest.

The former California Syrup and Extract Company facility comprises a large brick and mortar building which faces the 55th Street sidewalk. The Site is currently occupied by a portion of the original California Syrup & Extract building, which was completely remodeled as a professional office building in the late 1990s. The building contains the original brick and mortar facade, and a new building and surroundings were constructed behind the facade.

2.2 General Site History

California Syrup and Extract Company began operations in the Site building in about 1910, producing and bottling syrup and vinegar for commercial sales. Syrup and vinegar were produced and bottled at the facility up until the mid-1980s, and in the 1960s, bulk ammonia was also bottled at the facility. The east portion of the facility was rented out in the 1970s, and the west portion was used for storage from the mid-1980s until site redevelopment in the late 1990s.

The former California Syrup and Extract Company site apparently included a water supply well on the southwest side of the Site. During previous Site investigations, it was determined that this well was constructed with approximately six-inch diameter steel casing and was at least 45 feet deep. This well is not currently visible on the Site, having apparently been covered over during redevelopment of the Site in the late 1990s.

Eight decommissioned underground storage tanks (USTs) are located beneath the sidewalk adjacent to the California Syrup and Extract facility (see Figure 2 for location of USTs). These USTs were installed at various times throughout the life of the facility, and were used to store vehicle fuels, such as gasoline and diesel, and for bulk storage of aqueous ammonia and food grade denatured alcohol for use in California Syrup and Extract's business. Construction and usage details for the eight USTs are summarized below.

UST CONSTRUCTION & USE

Tank ID	*Capacity (gal)*	*Product Stored*	*Construction Material*	*Depth to Bottom of Tank*	*Installation Date*	*Last Used*
1 (east)	10,000	Diesel	Single wall steel	12.0 ft	1953	1981
2	550-1,000	Fuel oil/Waste oil	Single wall steel	6.25 ft	1930	1981
3	1,000	Diesel	Single wall steel	7.25 ft	1948	1981
4	1,000	Aqueous ammonia	Single wall steel	9.5 ft	1960	1965
5	1,000	Gasoline	Single wall steel	7.5 ft	1930	1965
6	6,000-10,300	Denatured alcohol	Single wall black iron	11.0 ft	1955	1985
7	10,000	Denatured alcohol	Single wall fiberglass	10.5 ft	1965	1985
8 (west)	10,000	Denatured alcohol	Single wall fiberglass	10.5 ft	1965	1985

2.3 Summary of Previous Environmental Investigation and Remediation Activities

In July 1993, Century West Engineering conducted a soil boring investigation at the project site as a requirement for closure-in-place of the eight USTs located beneath the 55th Street sidewalk (see *Report of Soil Boring Investigation For UST Closure-In Place*, Century West Engineering,

November 10, 1993). This investigation, which included the drilling and sampling of 13 soil borings adjacent to the USTs, revealed that three of the eight USTs (Tank No. 2 waste oil, Tank No. 3 diesel, and Tank No. 4 ammonia) showed evidence of product leakage. However, soil analytical results from the 13 soil borings indicated that releases from these three USTs had not had a significant impact on soils in the expected downgradient (westerly) direction from the USTs.

In accordance with the approved UST closure plan, the eight USTs were closed in-place by Allpro Environmental Corporation during the week of August 15, 1994. Closure-in-place consisted of filling each of the USTs with a cement/sand slurry.

In September 1994, two groundwater monitoring wells, MW-1 and MW-2, were installed at the Site. MW-1 was sited approximately ten feet southwest from Tank No. 2 and Tank No. 3, and MW-2 was sited approximately ten feet in the expected downgradient (southwest) groundwater flow direction from Tank No. 5. Although concentrations of TPH-G at monitoring well MW-2 are elevated, the relative concentrations of BTEX constituents are low, suggesting significant natural degradation of the gasoline constituents over time.

On June 3, 2011, the Alameda County Environmental Health (ACEH) issued a letter providing technical comments relative to past site investigation results and requesting submittal of a Workplan for Subsurface Investigation. Some of the key issues to be addressed in the workplan include: (1) Groundwater flow gradient; (2) Possible groundwater impacts from alcohol additives (principally MEK and MIBK); and (3) Possible groundwater impacts from ammonia and ammonia degradation products.

3.0 DESCRIPTION OF FIELD ACTIVITIES

Investigative soil boring and groundwater monitoring well installation activities were conducted by Gregg Drilling (C-57 License No. 485165). One investigative boring, B-1, and the two groundwater monitoring wells, MW-3 and MW-4, were drilled and installed on August 1, 2012. The two newly-installed wells were developed on August 7, 2012 and purged and sampled on August 16, 2012. All activities were conducted in accordance with the approved workplan and with applicable guidelines and statutes.

3.1 Prefield Activities

Prior to beginning field activities, drilling permits were obtained from the Alameda County Department of Public Works. Also, an encroachment permit was obtained from the City of Emeryville. Copies of these permits are provided in Appendix A.

Prior to implementing field activities, all drilling locations were marked with white paint, and Underground Services Alert (USA) was notified at least 48 hours prior to drilling. Also, a private underground utility locator was retained to conducted an independent clearance of the proposed drilling locations.

Prior to initiating drilling activities, a Site Safety Plan was prepared, and a tailgate safety meeting was conducted with all site workers.

3.2 Location of Boring and Wells

The boring, B-1, and wells MW-3 and MW-4, are shown on Figure 2. Boring B-1 was sited in the north parking lane of 55th Street, northwest from the former Site USTs. New well MW-3 was sited in the south 55th Street parking lane, immediately west from the former Site USTs. New well MW-4 was sited on the southwest side of the Site, southwest from the Site USTs.

3.3 Drilling and Sampling of Investigative Soil Boring

Soil boring B-1 was drilled to approximately 16 feet in depth using direct-push coring equipment. Four-foot continuous soil cores were collected from the boring in a clear plastic acetate tube, nested inside a stainless steel core barrel. After each four-foot core barrel was brought, a portion of the soil core contained in the acetate liner was removed for preservation and laboratory analysis. Teflon tape was placed over both ends of the sample core and sealed with plastic end-caps. The samples were then labeled and placed in cold storage pending transport to a laboratory. Following sample collection, the core was sliced lengthwise to expose the soil core, examined, logged, and field screened for hydrocarbons by a qualified geologist using sight, smell and PID. The soil boring log for B-1 is included in Appendix B. Soil cuttings from the boring were contained onsite in a sealed drum pending laboratory results.

At the total boring depth of 16 feet, a grab groundwater sample was collected by placing 3/4-inch diameter PVC well casing in the boring and allowing groundwater to enter the casing. Groundwater was then sampled using a clean small diameter bailer and poured directly into laboratory-supplied containers. Each sample container was then tightly sealed, labeled, and placed in cold storage for transport to the laboratory under formal chain-of-custody.

After completion, the boring was grouted to match existing surface grade using a cement/sand slurry. Also, all coring and sampling equipment were thoroughly cleaned and decontaminated by triple rinsing first with water, then with dilute liquinox solution, and finally with distilled water.

3.4 Drilling, Sampling, and Installation of Monitoring Wells

Wells MW-3 and MW-4 were drilled to respective depths of 15 feet and 20 feet using both direct-push coring tools (for lithologic logging and soil sampling) and hollow stem auger equipment (well installation activities). Soils were first cored, logged and sampled using direct-push coring equipment as described in the previous section of this report. The soil boring logs for MW-3 and MW-4 are included in Appendix B.

The groundwater monitoring wells were constructed using two-inch diameter Schedule 40 threaded PVC casing according to the following specifications: (1) 0.020-inch slotted well casing was placed from approximately 15 feet to 10 feet in depth for MW-3 and from 20 feet to 10 feet in depth for MW-4 (no sand was encountered in MW-4; hence, the longer well screen); (2) No. 3 Lonestar filter sand was placed around the casing to approximately 8 feet in depth; (3) A two-foot bentonite seal was placed above the filter sand to approximately 6 feet below grade; and (4) The remaining annulus was grouted using a cement/sand slurry (bentonite less than five percent) to approximate grade. The top of each well was enclosed in a traffic-rated locking well box set in concrete slightly above

surface grade. Well construction details for both wells are included on the boring log in Appendix B. All downhole drilling coring equipment was thoroughly cleaned by triple-rinsing as previously described in this report. All soil cuttings and steam cleaning rinseate were contained in sealed drums pending laboratory results.

3.5 Well Development and Sampling

After allowing the cement seal to cure for at least 48 hours, the newly-installed wells were developed by surging and pumping groundwater from the wells until pumped groundwater was clear and free of fines. During well development, approximately 15 gallons of groundwater was pumped from each well.

On August 16, 2012, Site wells MW-1 through MW-4 were purged and sampled using a peristaltic pump with new disposable tubing for each well. Wells were purged of at least three well volumes before sampling. During well purging, groundwater was monitored periodically for drop in the water level, pH, specific conductance, temperature, odor, and visible clarity. After these parameters have stabilized, groundwater was sampled in the following manner: (1) Laboratory supplied containers were completely filled directly from the effluent tubing with a minimum of agitation; (2) After making sure that no air bubbles were present (when applicable), each container was tightly sealed; and (3) Each container was labeled and placed in cold storage for transport to the analytical laboratory under formal chain-of-custody.

All purged groundwater generated during well development and sampling were stored on site in a sealed container pending groundwater analytical results.

3.6 Determination of Groundwater Potentiometric Gradient

On August 24, 2012, the wellhead elevations were surveyed by a Virgil Chavez Land Surveying, a State-licensed land surveyor, in accordance with State Geotracker requirements. Prior to purging and sampling, groundwater depths in all Site wells will be measured to the nearest 0.01 foot using an electronic probe. These data are then be used to calculate groundwater potentiometric gradient.

3.7 Laboratory Analysis of Soil and Water Samples

Seven soil samples (approximately two per boring) and five water samples (one from B-1 and one each from the four Site wells) were analyzed for the following parameters.

USEPA 8015 Total Petroleum Hydrocarbons as Diesel/Motor Oil (TPH-D/MO)
USEPA 8260 Total Petroleum Hydrocarbons as Gasoline (TPH-G)
USEPA 8260 Benzene, Toluene, Ethylbenzene, Xylenes (BTEX)
USEPA 8260 Oxygenates (TBA, DIPE, ETBE, TAME, and MTBE
USEPA 8260 Methyl Ethyl Ketone (MEK) and Methyl Isobutyl Ketone (MIBK)
USEPA 350.2 Ammonia
USEPA 353.2 Nitrogen as Total Nitrogen

All analyses were conducted by Sunstar Laboratories, a State-certified laboratory, with standard turn around on laboratory results.

4.0 RESULTS OF INVESTIGATION

4.1 General Subsurface Conditions

Soils encountered in boring B-1 and in well boring MW-3 were generally similar, consisting of dark grey silty clays (Bay Mud) down to approximately ten feet in depth, followed by sandy gravels and silty sands to respective total depths of 16 feet and 15 feet below surface grade. In well boring MW-4, Bay Mud silty clays were encountered down to approximately 14.5 feet in depth, followed by light brown gravelly clays from 14.5 feet to 20 feet, total boring depth.

Free groundwater was encountered in the approximately 11 feet in depth in boring B-1 and well boring MW-3. Free groundwater was not encountered in well boring MW-4.

No hydrocarbon odors or staining, and no PID detections, were encountered in soils from any of the investigative or well borings.

4.2 Hydrologic Conditions

Groundwater elevations measured in the four Site wells are shown on Figure 3. Groundwater elevation gradient is approximately 0.027 ft/ft to the west-southwest. Purged groundwater from Site well MW-2 exhibited a slight to moderate hydrocarbon odor with no hydrocarbon sheens. Purged groundwater from wells MW-1, MW-3, and MW-4 exhibited no hydrocarbon odors or sheens.

4.3 Results of Laboratory Analyses

Soil and groundwater laboratory analytical results are summarized in Table 1 and Table 2, and on Figure 4. Laboratory data reports and chain of custody records for soil and groundwater analyses are contained in Appendix C.

Soil and groundwater samples from investigative boring B-1 and from newly-installed wells MW-3 and MW-4 showed no significant hydrocarbon detections and relatively low (apparent background) levels of ammonia and nitrogen.

The groundwater sample from upgradient boring MW-1 showed no significant hydrocarbon detections. The groundwater sample from source area well MW-2 showed low levels of primarily gasoline-range hydrocarbon constituents.

5.0 CONCLUSIONS

Both field and laboratory analytical results indicate that: (1) Groundwater elevation gradient beneath the Site is to the west-southwest, as would be expected in the site vicinity; and (2) Hydrocarbons present in groundwater in source area well MW-2 have not migrated a significant distance west-southwest from the UST source area itself.

Based on the results of this and previous investigation, we recommend that regulatory closure be granted for this site. The preponderance of evidence clearly shows that this site meets generally-accepted closure criteria and should be granted regulatory site closure as a “low risk” site with unrestricted land use. Specifically, site closure should be granted because: (1) The contaminant

sources have been mitigated; (2) The site has been adequately characterized; (3) The contaminant plume is not migrating, and chemical concentrations in groundwater are expected to meet water quality objectives in the future; (4) No other waters of the State, water supply wells, or other sensitive receptors are likely to be impacted; and (5) The site does not pose a significant risk to human or environmental receptors.

TABLES

Table 1
SUMMARY OF SOIL AND GRAB GROUNDWATER ANALYTICAL RESULTS
California Syrup & Extract Company UST Site

Sample ID	Sample Matrix	Sample Depth	Soil1 concentrations in milligrams per kilogram (mg/kg) *Groundwater concentrations in micrograms per liter (ug/l)*											
			TPH-D	**TPH-MO**	**TPH-G**	**B**	**T**	**E**	**X**	**OXY**	**MEK**	**MIBK**	**NH3**	**TN**
B-1-11.0	Soil	11.0 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	**5.75**	**21.9**
B-1-15.0	Soil	15.0 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	<5.0	**16.5**
B-1-W	*Water*	*(9.0 ft)*	*<50*	*<100*	*<50*	*<0.50*	*<0.50*	*<0.5*	*<1.0*	*ALL ND*	*<10*	*<10*	*<100*	***3,880***
MW-3-10.5	Soil	10.5 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	<5.0	**3.1**
MW-3-14.0	Soil	14.0 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	**9.25**	**7.23**
MW-4-10.5	Soil	10.5 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	**10.5**	**12.3**
MW-4-14.0	Soil	14.0 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	**6.18**	**14.4**
MW-4-18.5	Soil	18.5 ft	<10	<10	<0.500	<0.005	<0.005	<0.005	<0.005	ALL ND	<0.010	<0.010	<5.0	**6.4**

Table Notes:

TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes
Oxy = Oxygenates, includes Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), Ethyl tert-butyl ether (ETBE), and Methyl-tert-butyl ether (MTBE).
MEK: Methyl ethyl ketone
MIBK: Methyl isobutyl ketone
NH3 = Ammonia
TN = Total nitrogen
<50 : Not detected above the expressed value

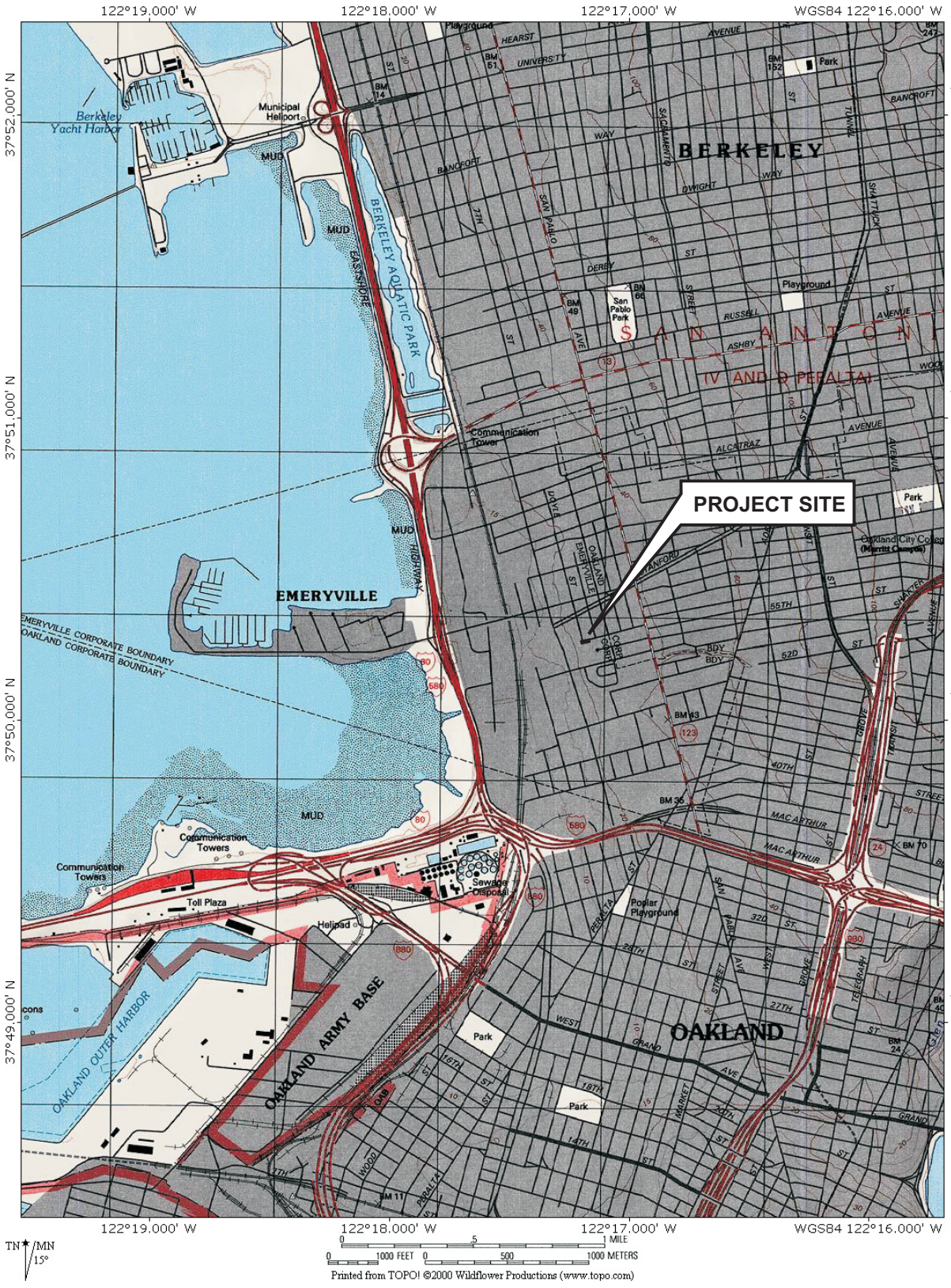
Table 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
California Syrup & Extract Company UST Site

Sample ID	Sample Date	DTW	GW Elev.	Concentration, micrograms per liter (ug/l)												
				TPH-D	TPH-MO	TPH-G	B	T	E	X	MTBE	OXY	MEK	MIBK	NH3	TN
MW-1	9/24/1994	8.01	18.69	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	–	–	–	–	–	–
<26.70>	12/29/1999	5.77	20.93	<50	<100	**120**	<0.5	<0.5	<0.5	**0.84**	<0.050	–	–	–	–	–
	3/23/2000	4.79	21.91	<50	<100	**97**	**0.58**	<0.5	<0.5	**21**	<0.005	–	–	–	–	–
	6/28/2000	8.90	17.80	<50	<100	**110**	**28**	**2.2**	**8.7**	**17**	<0.005	–	–	–	–	–
	10/04/2000	8.36	18.34	<50	<100	<50	<0.5	<0.5	<0.5	**1.5**	<0.005	–	–	–	–	–
	9/25/2009	6.89	19.81	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	–	–	–	–	–	–
	2/18/2010	5.74	20.96	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0	–	–	–	–	–
	7/26/2010	6.92	19.78	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0	–	–	–	–	–
	2/14/2011	6.76	19.94	<50	<100	<50	<1.0	**4.1**	<1.0	<2.0	<4.0	–	–	–	–	–
	8/03/2011	7.08	19.62	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0	–	–	–	–	–
	1/30/2012	7.57	19.13	<50	<100	<50	<1.0	<1.0	<1.0	<2.0	<4.0	–	–	–	–	–
	8/16/2012	6.49	20.21	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	<1.0	ALL ND	<10	<10	<100	**104**
MW-2	9/24/1994	7.88	18.29	**630**	<0.50	**970**	**57**	**3.4**	**3.6**	**3.0**	–	–	–	–	–	–
<26.17>	12/29/1999	7.29	18.88	<0.050	<0.100	**8,800**	**430**	**370**	**250**	**410**	<1.0	–	–	–	–	–
	3/23/2000	6.03	20.14	<0.050	<0.100	**10,000**	**590**	**90**	**210**	**640**	<1.0	–	–	–	–	–
	6/28/2000	7.11	19.06	<0.050	<0.100	**3,600**	**310**	**19**	**94**	**100**	**120**	–	–	–	–	–
	10/4/2000	7.64	18.53	<0.050	<0.100	**4,100**	**280**	**15**	**58**	**81**	**100**	–	–	–	–	–
	9/25/2009	7.55	18.62	**8,100**	**2,900**	**59,000**	**58**	**69**	**170**	**160**	–	–	–	–	–	_
	2/18/2010	5.96	20.21	**610**	<100	**1,400**	**12**	**5.4**	<1.0	<2.0	**97**	–	–	–	–	–
	7/26/2010	6.90	19.27	**560**	<100	**3,700**	**40**	**7.5**	<1.0	<2.0	**100**	–	–	–	–	–
	2/14/2011	6.99	19.18	**1,200**	<100	**2,400**	**17**	**11**	**4.2**	**4.4**	**49**	–	–	–	–	–
	8/03/2011	6.63	19.54	**1,500**	**860**	**2,100**	**6.2**	**15**	<1.0	<2.0	**200**	–	–	–	–	–
	1/30/2012	7.01	19.16	**1,100**	**220**	**2,400**	**80**	**31**	<1.0	<2.0	**200**	–	–	–	–	–
	8/16/2012	6.67	19.50	**750**	<100	**4,100**	**110**	**9.9**	**4.0**	**7.4**	**26**	ALL ND	<10	<10	<100	**158**
MW-3	8/16/2012	9.04	15.94	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	**1.2**	ALL ND	<10	<10	<100	<100
<24.98>																
MW-4	8/16/2012	9.34	16.71	<50	<100	<50	<0.50	<0.50	<0.50	<1.0	<1.0	ALL ND	<10	<10	<100	**408**
<26.05>																

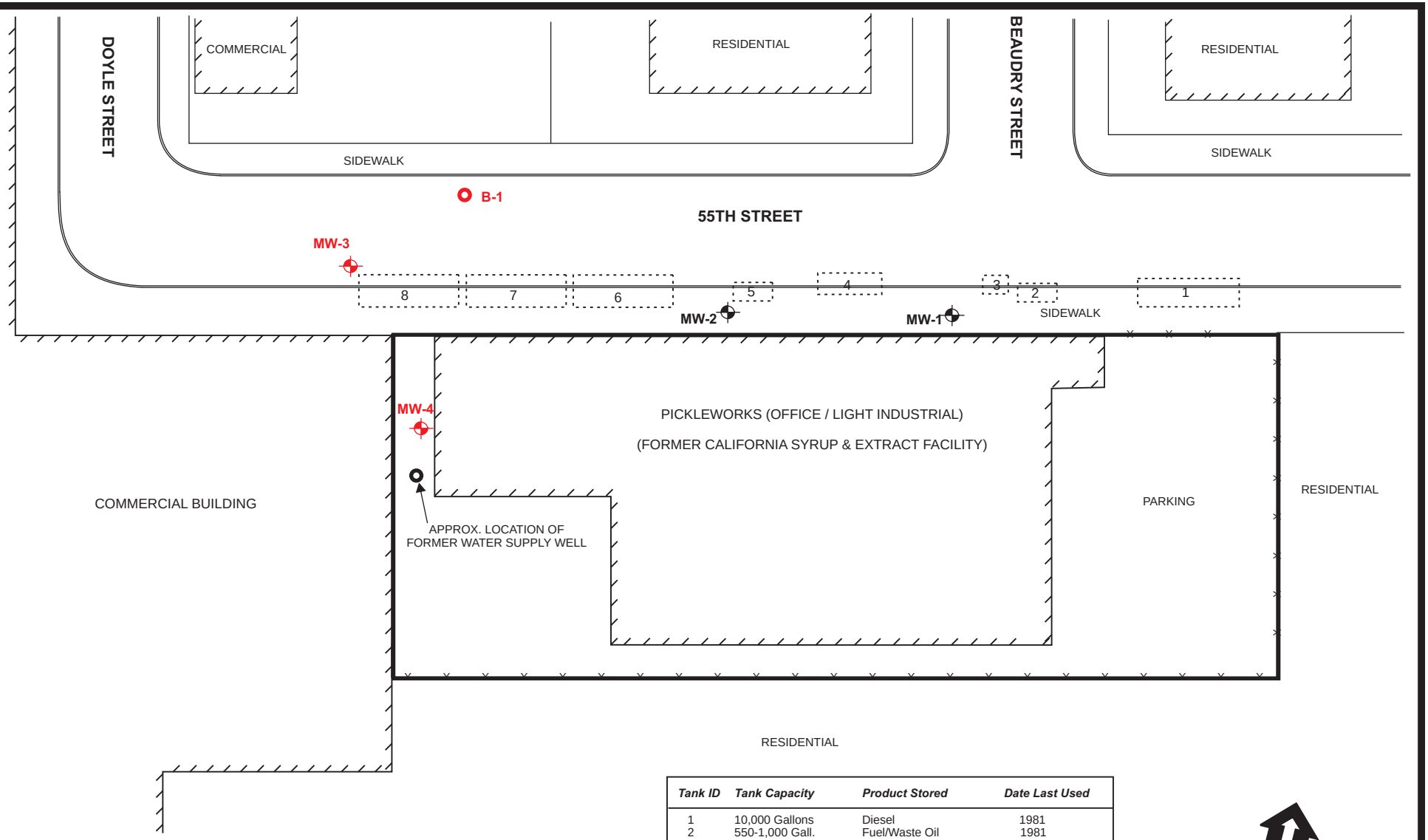
Table Notes:

DTW : Depth to Water, in feet below top of casing.
GW Elev. : Groundwater mean sea level elevation.
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene, T = Toluene, E = Ethylbenzene, X = Xylenes
MTBE = Methyl-tert-butyl ether
Oxy = Oxygenates, includes Tert-butyl alcohol (TBA), Di-isopropyl ether (DIPE), and Ethyl tert-butyl ether (ETBE).
MEK: Methyl ethyl ketone
MIBK: Methyl isobutyl ketone
NH3 = Ammonia
TN = Total nitrogen
<50 : Not detected above the expressed value
<26.70> : Top of casing mean sea level (msl) elevation
ALL ND : No detectable concentrations of individual analytes

FIGURES



DESIGNED BY:	CHECKED BY:	**SITE VICINITY MAP**	DATE: 09/07/2012	FIGURE: **1**
DRAWN BY: JG	SCALE:	CALIFORNIA SYRUP AND EXTRACT 1375 55TH STREET EMERYVILLE, CALIFORIA	GRIBI	
PROJECT NO: 320-01-01				



Tank ID	*Tank Capacity*	*Product Stored*	*Date Last Used*
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.

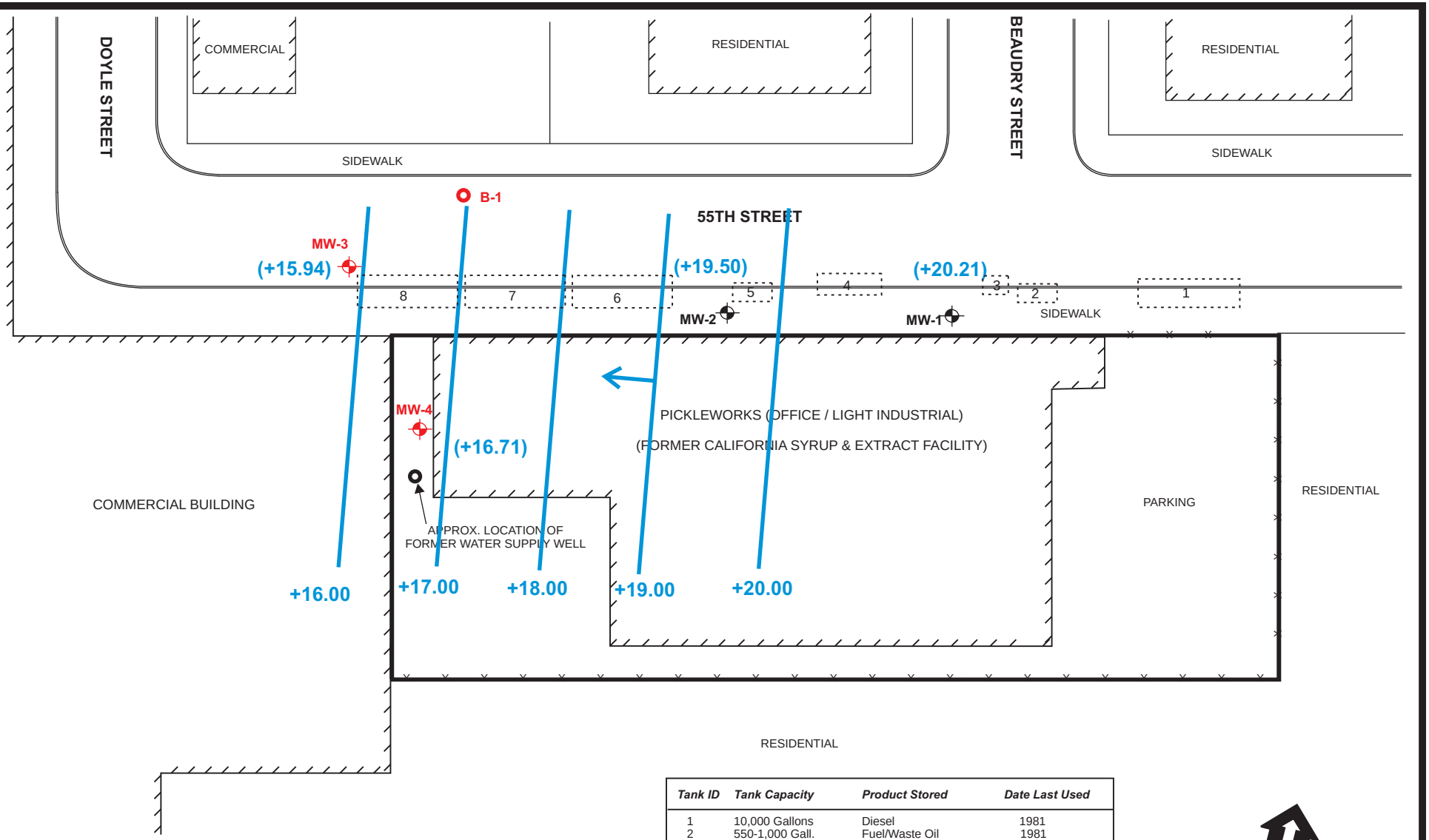
N

- SOIL BORING LOCATION (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (CWEC, 1994)

0 40 80

APPROXIMATE SCALE IN FEET

DESIGNED BY:	CHECKED BY:	**SITE PLAN**	DATE: 09/05/2012 FIGURE: **2**
DRAWN BY: JEG	SCALE:		
PROJECT NO:		1375 55TH STREET EMERYVILLE, CALIFORNIA	GRIBI



Tank ID	*Tank Capacity*	*Product Stored*	*Date Last Used*
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.

- SOIL BORING LOCATION (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (CWEC, 1994)

0 40 80

APPROXIMATE SCALE IN FEET

N

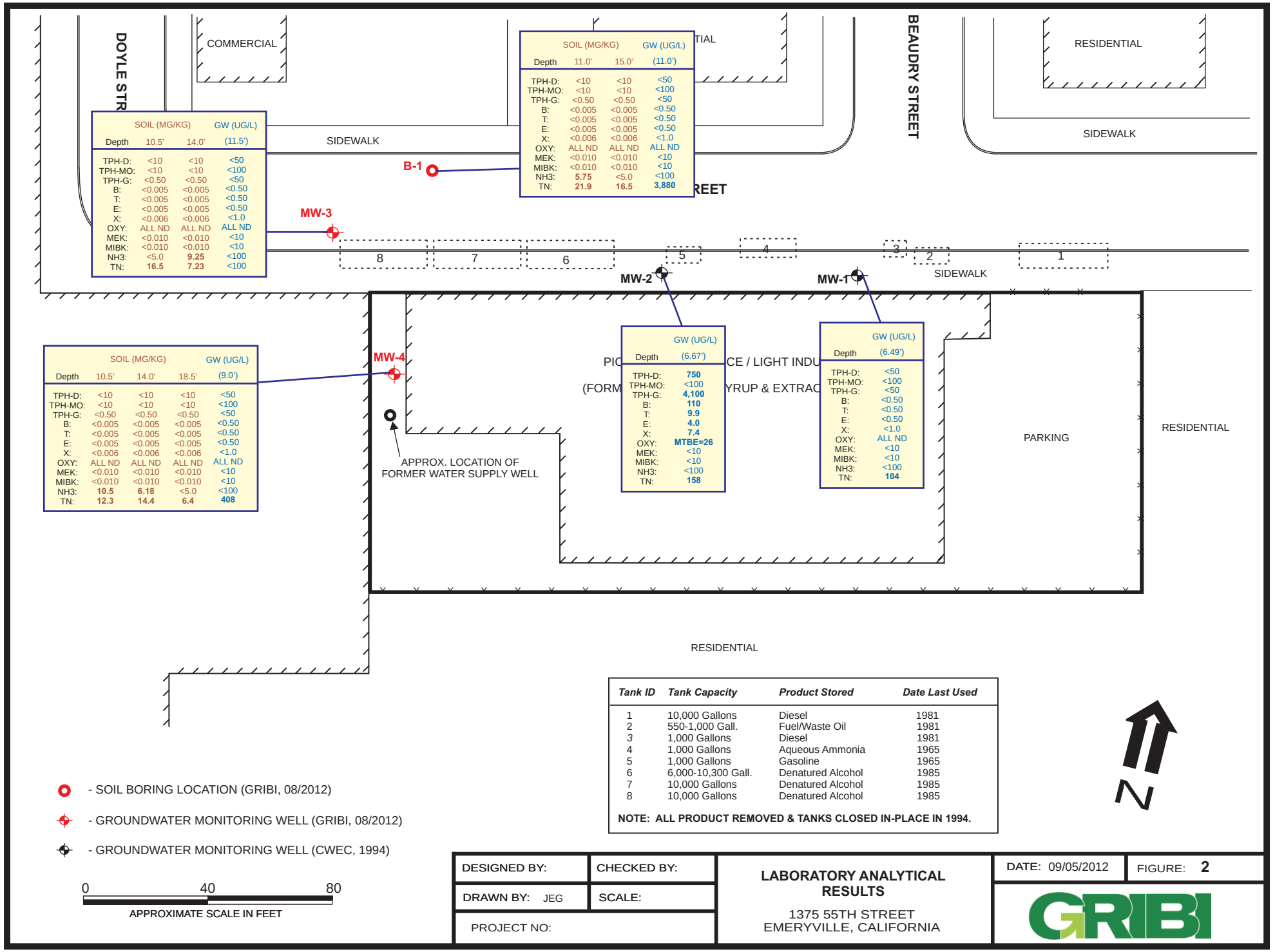
DESIGNED BY:	CHECKED BY:
DRAWN BY: JEG	SCALE:
PROJECT NO:	

GROUNDWATER ELEVATION GRADIENT

1375 55TH STREET
EMERYVILLE, CALIFORNIA

DATE: 09/05/2012 FIGURE: **2**

GRIBI



Depth	SOIL (MG/KG) 10.5'	14.0'	GW (UG/L) (11.5')
TPH-D:	<10	<10	<50
TPH-MO:	<10	<10	<100
TPH-G:	<0.50	<0.50	<50
B:	<0.005	<0.005	<0.50
T:	<0.005	<0.005	<0.50
E:	<0.005	<0.005	<0.50
X:	<0.006	<0.006	<1.0
OXY:	ALL ND	ALL ND	ALL ND
MEK:	<0.010	<0.010	<10
MIBK:	<0.010	<0.010	<10
NH3:	<5.0	**9.25**	<100
TN:	**16.5**	**7.23**	<100

Depth	SOIL (MG/KG) 11.0'	15.0'	GW (UG/L) (11.0')
TPH-D:	<10	<10	<50
TPH-MO:	<10	<10	<100
TPH-G:	<0.50	<0.50	<50
B:	<0.005	<0.005	<0.50
T:	<0.005	<0.005	<0.50
E:	<0.005	<0.005	<0.50
X:	<0.006	<0.006	<1.0
OXY:	ALL ND	ALL ND	ALL ND
MEK:	<0.010	<0.010	<10
MIBK:	<0.010	<0.010	<10
NH3:	**5.75**	<5.0	<100
TN:	**21.9**	**16.5**	**3,880**

Depth	SOIL (MG/KG) 10.5'	14.0'	18.5'	GW (UG/L) (9.0')
TPH-D:	<10	<10	<10	<50
TPH-MO:	<10	<10	<10	<100
TPH-G:	<0.50	<0.50	<0.50	<50
B:	<0.005	<0.005	<0.005	<0.50
T:	<0.005	<0.005	<0.005	<0.50
E:	<0.005	<0.005	<0.005	<0.50
X:	<0.006	<0.006	<0.006	<1.0
OXY:	ALL ND	ALL ND	ALL ND	ALL ND
MEK:	<0.010	<0.010	<0.010	<10
MIBK:	<0.010	<0.010	<0.010	<10
NH3:	**10.5**	**6.18**	<5.0	<100
TN:	**12.3**	**14.4**	**6.4**	**408**

Depth	GW (UG/L) (6.67')
TPH-D:	**750**
TPH-MO:	<100
TPH-G:	**4,100**
B:	**110**
T:	**9.9**
E:	**4.0**
X:	**7.4**
OXY:	**MTBE=26**
MEK:	<10
MIBK:	<10
NH3:	<100
TN:	**158**

Depth	GW (UG/L) (6.49')
TPH-D:	<50
TPH-MO:	<100
TPH-G:	<50
B:	<0.50
T:	<0.50
E:	<0.50
X:	<1.0
OXY:	ALL ND
MEK:	<10
MIBK:	<10
NH3:	<100
TN:	**104**

Tank ID	*Tank Capacity*	*Product Stored*	*Date Last Used*
1	10,000 Gallons	Diesel	1981
2	550-1,000 Gall.	Fuel/Waste Oil	1981
3	1,000 Gallons	Diesel	1981
4	1,000 Gallons	Aqueous Ammonia	1965
5	1,000 Gallons	Gasoline	1965
6	6,000-10,300 Gall.	Denatured Alcohol	1985
7	10,000 Gallons	Denatured Alcohol	1985
8	10,000 Gallons	Denatured Alcohol	1985

NOTE: ALL PRODUCT REMOVED & TANKS CLOSED IN-PLACE IN 1994.

- SOIL BORING LOCATION (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (GRIBI, 08/2012)
- GROUNDWATER MONITORING WELL (CWEC, 1994)

0 40 80

APPROXIMATE SCALE IN FEET

DESIGNED BY:	CHECKED BY:
DRAWN BY: JEG	SCALE:
PROJECT NO:	

LABORATORY ANALYTICAL RESULTS

1375 55TH STREET
EMERYVILLE, CALIFORNIA

DATE: 09/05/2012 FIGURE: **2**

GRIBI

APPENDIX A

REGULATORY PERMITS

Alameda County Public Works Agency - Water Resources Well Permit

399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/20/2012 By jamesy

Permit Numbers: W2012-0526 to W2012-0528
Permits Valid from 07/25/2012 to 07/25/2012

Application Id: 1342480859360
City of Project Site: Emeryville
Site Location: 1355 55th St, Emeryville, CA
Project Start Date: 07/25/2012
Completion Date: 07/25/2012
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Grbi Associates - James Gribi
1090 Adam St Ste K, Benicia, CA 94510
Phone: 707-748-7743

Property Owner: Ronal W Mooney CA Syrup & Extract Co.
PO Box 8305, Emeryville, CA 94608
Phone: --

Client: ** same as Property Owner **

Total Due: $1059.00
Receipt Number: WR2012-0232 **Total Amount Paid:** $1059.00
Payer Name : Gribi Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: Gregg - Lic #: 485165 - Method: hstem **Work Total: $794.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2012-0526	07/20/2012	10/23/2012	MW3	8.00 in.	2.00 in.	13.00 ft	15.00 ft
W2012-0527	07/20/2012	10/23/2012	MW4	8.00 in.	2.00 in.	13.00 ft	15.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755

(Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

Borehole(s) for Investigation-Environmental/Monitorinig Study - 1 Boreholes
Driller: Gregg - Lic #: 485165 - Method: hstem **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2012-0528	07/20/2012	10/23/2012	1	2.50 in.	15.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

City of Emeryville • Department of Public Works
Encroachment Permit

Permit No 12.0724 Date 7-26-12
Application Fee.....$ 167
Long Term Permit Fee, Beyond 30 days $ _____
"No Parking Signs" Qty _____ Total.....$ _____
Permit Inspection Deposit (2 hr. min.)....$ 202
Cost Recovery Estimate.....$ _____
Arborist Recovery Estimate.....$ _____
Required Security Deposit:
☑ $1,000 cash.....$ 1000
☐ $10,000 Bond, Bond # _____
☐ 100% Perf. Bond,
Bond Value: _____ Bond # _____
Total Payment Required.....$ 1,369
Received: _____ Date _____
Receipt # _____
Failure to obtain approval of a Final Inspection of the work covered by this Encroachment Permit within one (1) year of the estimated completion date shall result in the loss of the security deposit which shall be retained by the City of Emeryville.

APPLICANT Gribi Associates
CONTACT PERSON James Gribi
ADDRESS 1090 Adams Street, Benicia, CA 94510
PHONE 707-748-7743
FAX 707-748-7763

OWNER/DEVELOPER OF FACILITIES
California Syrup & Extract Company, LLC
ADDRESS 1355 55th Street
PHONE Emeryville, CA
FAX

CONTRACTOR PERFORMING WORK
Gregg Drilling & Testing, Inc.
CONTACT PERSON Chris Pruner
ADDRESS 950 Howe Rd, Martinez, CA 94553
PHONE 925-313-5800 FAX 925-313-0302
LICENSE NO. 485165 CLASS C-57
☒ Yes ☐ No CURRENT CITY BUSINESS LICENSE ON FILE
☐ Yes ☐ No PROVIDE PROOF OF INSURANCE
EST. START DATE 7/25/12 EST. COMPLETION DATE 7/25/12 EST. COST IN CITY R/W $2,000

LOCATION OF WORK East & West bound parking lanes of 55th Street, northwest of the subject property.
CHECK ALL THAT APPLY
☒ Traffic Control ☐ Survey ☐ Sidewalk Detour ☐ Dumpster ☐ Temporary No Parking
☐ Private Facilities on Public Right of Way ☐ Construction ☐ Sidewalk ☐ Driveway Approach ☐ Curb & Gutter ☐ Pedestrian Ramp ☐ Water Service ☐ Gas Service ☐ Electric Service ☐ Roof Drain ☐ Utility Maintenance ☐ Fence ☒ Excavation ☐ Obstruction ☐ Access Road ☐ Monitoring Well ☐ Sewer Lateral ☐ Storm Drain ☐ Crane ☐ Block Party
FULLY DESCRIBE PROPOSED WORK WITHIN CITY RIGHT-OF-WAY (additional space on reverse if needed):
Attach 3 complete sets of plans 8 ½ X 11, if applicable.

Drilling of one Boring (B-1), and two monitoring wells (MW-3 & MW-4).
Please refer to the attachment.

I hereby agree to protect and indemnify the City of Emeryville and hold it harmless in every way from all claim or suits for injury or damage to persons or property as set forth in the Standard Provisions. I agree not to begin construction until all materials to be used are on hand; to perform all work in accordance with the plans submitted (if any), the Standard Provisions to Encroachment Permit, and all applicable Special Conditions of Approval, and to pay all inspection and engineering costs in addition to those paid at the time of issuance of this permit. I further agree to complete the work to the satisfaction of the City Engineer and if for any reason the City of Emeryville is required to complete this work, I will pay all costs for such work.
Applicant Signature _____ Date 7-5-12
After final inspection is approved, please contact the Public Works Department at 510-596-4330 to determine final cost, and for final payment or reimbursement of deposit.

FOR CITY USE ONLY ○*Temporary Permit* #_____*days* ○*Long Term Permit*

The following documents are attached and incorporated into this permit and have been given to the applicant:

☑ Standard Provisions to Encroachment Permit ☐ Special Conditions of Approval

☐ City Standard Details (List Details) ☑ Handout, Urban Runoff BMP's

_____

☐Other _____

Remarks _____

☑ 48 HOUR NOTICE PRIOR TO START OF WORK,

☐ PROVIDE CONSTRUCTION SCHEDULE 5 DAYS PRIOR TO START OF WORK

☐ AS-BUILT PLANS REQUIRED

☑ PLEASE CALL FOR INSPECTION AT 510-596-4333

☐ PLEASE NOTIFY POLICE (510-596-3700) AND FIRE (510-596-3750) 24 HOURS IN ADVANCE.

This permit is void unless the work is completed before 30 Aug, 2012

This permit is to be strictly construed and no other work than is specifically mentioned is hereby authorized.

APPROVED _____ TITLE PWD DATE 26 July 12

FINAL INSPECTION APPROVED _____ TITLE _____ DATE _____

APPENDIX B

SOIL BORING LOGS

LOG OF SOIL BORING

BORING NUMBER : **B-1**

BORING LOCATION: N SIDE OF 55TH STREET

BORING TYPE: SOIL BORING

PROJECT NAME: CALIFORNIA SYRUP & EXTRACT

FIELD SCIENTIST: J. GRIB

GRIBI ASSOCIATES

START DATE: 08/01/2012

COMPLETION DATE: 08/01/2012

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 16.0 FEET

GROUNDWATER DEPTH: INITIAL: 10.5 FEET
FINAL: NM

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL
5.0	B-1-7.5 8:55	7.5 FT.		0	CL	1.5 - 10.0 ft. **Silty Clay (CL)** Dark grey to olive grey, firm, moist, no odors or sheens, slightly sandy & gravelly at 9 ft. to 10 ft.
10	B-1-11.0 9:00	11.0 FT.		0	GP	10.0 - 15.0 ft. **Silty, Clayey Gravel (GP)** Light brown, lightly sandy, loose to firm, wet at about 11.0 ft., no odors or staining, water saturated from 11 ft to 13.5 ft.
15	B-1-15.0 9:10	15.0 FT.		0	SM	15.0 - 16.0 ft. **Silty Sand (SM)** Light brown, slightly clayey, moist to wet, soft to firm, no odors.
20						COLLECTED GRAB GROUNDWATER SAMPLE B-1-W; open hole AT 16 FT BGS ON 8/01/12 AT 9:20.
25						TOTAL DEPTH: 16.0 FEET

0.0 - 1.5 ft. Asphalt & base gravel

LOG OF SOIL BORING

BORING NUMBER : **MW-3**

BORING LOCATION: 55TH STREET

BORING TYPE: SOIL BORING

PROJECT NAME: CALIFORNIA SYRUP & EXTRACT

FIELD SCIENTIST: J. GRIB

GRIBI ASSOCIATES

START DATE: 08/01/2012

COMPLETION DATE: 08/01/2012

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

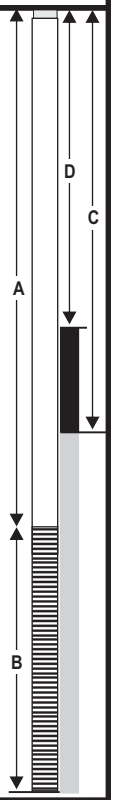
BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 15.0 FEET

GROUNDWATER DEPTH: INITIAL: 11.5 FEET
FINAL: 9.04 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
5.0	B-3-6.0 10:50	6.0 FT.		0	CL	0.0 - 1.5 ft. Asphalt & concrete.	
						1.5 - 11.5 ft. **Silty Clay (CL)** Dark grey to olive	
10	B-3-10.5 11:00	10.5 FT.		0			
					GP	11.5 - 15.0 ft. **Sandy Gravel (GP)** Brown-olive grey, loose, silty, wet at 11.5 ft, clast to 2 inch, water saturated, no odors or staining.	
15	B-3-14.0 11:10	14.0 FT.		0			
						TOTAL DEPTH: 16.0 FEET	
20							
25							



WELL SPECIFICATIONS

A - WELL SCREEN DEPTH:	9.87 FT	CASING TYPE:	SCH 40 PVC
B - WELL SCREEN LENGTH:	5.00 FT	CASING SIZE:	2-INCH
C - DEPTH TO TOP OF SAND:	8.00 FT	SLOT SIZE:	0.020 INCH
D - DEPTH BENTONITE SEAL:	6.00 FT		

LOG OF SOIL BORING

BORING NUMBER : **MW-4**

BORING LOCATION: SOUTH OF MW-3

BORING TYPE: SOIL BORING

PROJECT NAME: CALIFORNIA SYRUP & EXTRACT

FIELD SCIENTIST: J. GRIB

GRIBI ASSOCIATES

START DATE: 08/01/2012

COMPLETION DATE: 08/01/2012

DRILLING CONTRACTOR: GREGG DRILLING

DRILLING METHOD: DIRECT PUSH

BOREHOLE DIAMETER: 2.5 INCHES

COMPLETION METHOD: BORING

BORING TOTAL DEPTH: 20.0 FEET

GROUNDWATER DEPTH: INITIAL: NONE
FINAL: 9.34 FEET

DEPTH SCALE (FEET)	SAMPLE NO.	SAMPLE DEPTH	INTERVAL	PID READING & BLOW COUNTS (▽ - INITIAL, ▼ - FINAL)	USCS	LOG OF MATERIAL	PIEZOMETER\ WELL INSTALLATION
5.0	B-4-6.0 12:45	6.0 FT.		0	CL	0.0 - 2.0 ft. Asphalt & base rock. 2.0 - 14.5 ft. **Silty Clay (CL)** Dark grey to olive grey	A, B, C, D
10	B-4-10.5 12:50	10.5 FT.		0			
15	B-4-14.0 12:55	14.0 FT.		0	CL	14.5 - 20.0 ft. **Gravelly Clay (GP)** Light brown, firm, dense, sub rounded gravel clasts to 1.5 inch, moist, slightly wet at 14.0 ft. & 18 ft to 19 ft., no free water in boring.	
20	B-4-18.5 13:10	18.5 FT.		0		TOTAL DEPTH: 20.0 FEET	
25							

WELL SPECIFICATIONS

A - WELL SCREEN DEPTH:	9.77 FT	CASING TYPE: SCH 40 PVC
B - WELL SCREEN LENGTH:	10.00 FT	CASING SIZE: 2-INCH
C - DEPTH TO TOP OF SAND:	8.00 FT	SLOT SIZE: 0.020 INCH
D - DEPTH BENTONITE SEAL:	6.00 FT	

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

15 August 2012

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

RE: California Syrup and Extract

Enclosed are the results of analyses for samples received by the laboratory on 08/02/12 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
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: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-11.0	T121309-02	Soil	08/01/12 09:00	08/02/12 10:15
B-1-15.0	T121309-03	Soil	08/01/12 09:10	08/02/12 10:15
B-1-W	T121309-04	Water	08/01/12 09:20	08/02/12 10:15
MW-3-10.5	T121309-06	Soil	08/01/12 11:00	08/02/12 10:15
MW-3-14.0	T121309-07	Soil	08/01/12 11:10	08/02/12 10:15
MW-4-10.5	T121309-09	Soil	08/01/12 12:50	08/02/12 10:15
MW-4-14.0	T121309-10	Soil	08/01/12 12:55	08/02/12 10:15
MW-4-18.5	T121309-11	Soil	08/01/12 13:10	08/02/12 10:15

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

B-1-11.0

T121309-02 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/07/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*115 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84.2 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*72.6 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	**5.75**	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**21.9**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

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Daniel Chavez, Project Manager

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Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

B-1-15.0

T121309-03 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*119 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.4 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*77.6 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**16.5**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

B-1-W
T121309-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	0.050	mg/l	1	2080217	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*127 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.50	ug/l	1	2080219	08/02/12	08/10/12	EPA 8260B	
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		*101 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*113 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*69.6 %*	*81.1-136*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080311	08/03/12	08/13/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	0.10	mg/l	1	2080224	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**3.88**		"	"	2080228	08/02/12	08/07/12	EPA 353.2	

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

MW-3-10.5
T121309-06 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*116 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*85.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*79.4 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**3.10**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

MW-3-14.0

T121309-07 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*124 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84.4 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*82.1 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	**9.25**	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**7.23**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

MW-4-10.5

T121309-09 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*120 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*87.9 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*82.2 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	**10.5**	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**12.3**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

MW-4-14.0

T121309-10 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*117 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*86.8 %*	*85.5-116*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.9 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*81.5 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	**6.18**	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**14.4**		"	"	2080317	08/03/12	08/09/12	EPA 353.2	

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Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

MW-4-18.5

T121309-11 (Soil)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	10	mg/kg	1	2080223	08/02/12	08/08/12	EPA 8015C	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*121 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	5.0	ug/kg	1	2080218	08/02/12	08/15/12	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
C6-C12 (GRO)	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*78.9 %*	*85.5-116*		"	"	"	"	*S-GC*
Surrogate: 4-Bromofluorobenzene		*92.5 %*	*81.2-123*		"	"	"	"	
Surrogate: Dibromofluoromethane		*85.0 %*	*95.7-135*		"	"	"	"	*S-GC*
Methyl ethyl ketone	ND	10	"	"	2080315	08/03/12	08/10/12	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	5.00	mg/kg	1	2080226	08/02/12	08/06/12	EPA 350.2	
Total Nitrogen	**6.40**		"	5	2080317	08/03/12	08/09/12	EPA 353.2	

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

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Lake Forest, California 92630
949.297.5020 Phone
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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2080217 - EPA 3510C GC										
Blank (2080217-BLK1)				Prepared: 08/02/12 Analyzed: 08/08/12						
C13-C28 (DRO)	ND	0.050	mg/l							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	*5.34*		"	*4.00*		*134*	*65-135*			
LCS (2080217-BS1)				Prepared: 08/02/12 Analyzed: 08/08/12						
C13-C28 (DRO)	16.9	0.050	mg/l	20.0		84.3	75-125			
Surrogate: p-Terphenyl	*5.27*		"	*4.00*		*132*	*65-135*			
Matrix Spike (2080217-MS1)	**Source: T121326-10**			Prepared: 08/02/12 Analyzed: 08/08/12						
C13-C28 (DRO)	17.8	0.050	mg/l	20.0	0.0636	88.8	75-125			
Surrogate: p-Terphenyl	*5.18*		"	*4.00*		*130*	*65-135*			
Matrix Spike Dup (2080217-MSD1)	**Source: T121326-10**			Prepared: 08/02/12 Analyzed: 08/08/12						
C13-C28 (DRO)	21.5	0.050	mg/l	20.0	0.0636	107	75-125	18.9	20	
Surrogate: p-Terphenyl	*5.31*		"	*4.00*		*133*	*65-135*			
Batch 2080223 - EPA 3550B GC										
Blank (2080223-BLK1)				Prepared: 08/02/12 Analyzed: 08/07/12						
C13-C28 (DRO)	ND	10	mg/kg							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	*88.9*		"	*100*		*88.9*	*65-135*			
LCS (2080223-BS1)				Prepared: 08/02/12 Analyzed: 08/07/12						
C13-C28 (DRO)	420	10	mg/kg	500		84.6	75-125			
Surrogate: p-Terphenyl	*106*		"	*100*		*106*	*65-135*			

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

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Providing Quality Analytical Services Nationwide

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

Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2080223 - EPA 3550B GC										
Matrix Spike (2080223-MS1)	**Source: T121309-02**			Prepared: 08/02/12 Analyzed: 08/07/12						
C13-C28 (DRO)	450	10	mg/kg	500	ND	90.3	75-125			
Surrogate: p-Terphenyl	*129*		"	*100*		*129*	*65-135*			
Matrix Spike Dup (2080223-MSD1)	**Source: T121309-02**			Prepared: 08/02/12 Analyzed: 08/07/12						
C13-C28 (DRO)	460	10	mg/kg	500	ND	91.5	75-125	1.23	20	
Surrogate: p-Terphenyl	*126*		"	*100*		*126*	*65-135*			

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Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

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 2080218 - EPA 5030 GCMS										
Blank (2080218-BLK1)				Prepared: 08/02/12 Analyzed: 08/13/12						
Benzene	ND	5.0	ug/kg							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
C6-C12 (GRO)	ND	500	"							
Surrogate: Toluene-d8	*33.7*		*"*	*40.0*		*84.2*	*85.5-116*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*36.6*		*"*	*40.0*		*91.4*	*81.2-123*			
Surrogate: Dibromofluoromethane	*29.3*		*"*	*40.0*		*73.2*	*95.7-135*			*S-GC*
LCS (2080218-BS1)				Prepared: 08/02/12 Analyzed: 08/15/12						
Chlorobenzene	99.6	5.0	ug/kg	100		99.6	75-125			
1,1-Dichloroethene	119	5.0	"	100		119	75-125			
Trichloroethene	117	5.0	"	100		117	75-125			
Benzene	99.4	5.0	"	100		99.4	75-125			
Toluene	94.2	5.0	"	100		94.2	75-125			
Surrogate: Toluene-d8	*37.0*		*"*	*40.0*		*92.4*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*31.8*		*"*	*40.0*		*79.6*	*81.2-123*			*S-GC*
Surrogate: Dibromofluoromethane	*30.3*		*"*	*40.0*		*75.8*	*95.7-135*			*S-GC*
Matrix Spike (2080218-MS1)	**Source: T121309-02**			Prepared: 08/02/12 Analyzed: 08/15/12						
Chlorobenzene	97.6	5.0	ug/kg	100	ND	97.6	75-125			
1,1-Dichloroethene	116	5.0	"	100	ND	116	75-125			
Trichloroethene	92.8	5.0	"	100	ND	92.8	75-125			
Benzene	96.3	5.0	"	100	ND	96.3	75-125			
Toluene	92.8	5.0	"	100	ND	92.8	75-125			
Surrogate: Toluene-d8	*35.2*		*"*	*40.0*		*88.0*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*32.6*		*"*	*40.0*		*81.6*	*81.2-123*			
Surrogate: Dibromofluoromethane	*29.2*		*"*	*40.0*		*73.0*	*95.7-135*			*S-GC*

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Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

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 2080218 - EPA 5030 GCMS										
Matrix Spike Dup (2080218-MSD1)	**Source: T121309-02**			Prepared: 08/02/12 Analyzed: 08/15/12						
Chlorobenzene	97.8	5.0	ug/kg	100	ND	97.8	75-125	0.205	20	
1,1-Dichloroethene	120	5.0	"	100	ND	120	75-125	3.73	20	
Trichloroethene	93.8	5.0	"	100	ND	93.8	75-125	1.07	20	
Benzene	96.2	5.0	"	100	ND	96.2	75-125	0.156	20	
Toluene	91.8	5.0	"	100	ND	91.8	75-125	1.19	20	
Surrogate: Toluene-d8	*34.6*		*"*	*40.0*		*86.6*	*85.5-116*			
Surrogate: 4-Bromofluorobenzene	*31.8*		*"*	*40.0*		*79.4*	*81.2-123*			*S-GC*
Surrogate: Dibromofluoromethane	*29.5*		*"*	*40.0*		*73.8*	*95.7-135*			*S-GC*
Batch 2080219 - EPA 5030 GCMS										
Blank (2080219-BLK1)				Prepared: 08/02/12 Analyzed: 08/10/12						
Benzene	ND	0.50	ug/l							
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	*8.08*		*"*	*8.00*		*101*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.99*		*"*	*8.00*		*112*	*83.5-119*			
Surrogate: Dibromofluoromethane	*5.39*		*"*	*8.00*		*67.4*	*81.1-136*			*S-GC*

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Daniel Chavez, Project Manager

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Lake Forest, California 92630
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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

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 2080219 - EPA 5030 GCMS										
LCS (2080219-BS1)				Prepared: 08/02/12		Analyzed: 08/10/12				
Chlorobenzene	18.6	1.0	ug/l	20.0		93.2	75-125			
1,1-Dichloroethene	24.9	1.0	"	20.0		124	75-125			
Trichloroethene	15.8	1.0	"	20.0		79.2	75-125			
Benzene	23.7	0.50	"	20.0		118	75-125			
Toluene	20.3	0.50	"	20.0		101	75-125			
Surrogate: Toluene-d8	*6.69*		"	*8.00*		*83.6*	*88.8-117*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*5.89*		"	*8.00*		*73.6*	*83.5-119*			*S-GC*
Surrogate: Dibromofluoromethane	*5.40*		"	*8.00*		*67.5*	*81.1-136*			*S-GC*
Matrix Spike (2080219-MS1)	**Source: T121309-04**			Prepared: 08/02/12		Analyzed: 08/10/12				
Chlorobenzene	23.2	1.0	ug/l	20.0	ND	116	75-125			
1,1-Dichloroethene	25.4	1.0	"	20.0	ND	127	75-125			QM-05
Trichloroethene	16.0	1.0	"	20.0	ND	80.2	75-125			
Benzene	25.3	0.50	"	20.0	ND	126	75-125			QM-05
Toluene	21.6	0.50	"	20.0	ND	108	75-125			
Surrogate: Toluene-d8	*6.97*		"	*8.00*		*87.1*	*88.8-117*			*S-GC*
Surrogate: 4-Bromofluorobenzene	*7.38*		"	*8.00*		*92.2*	*83.5-119*			
Surrogate: Dibromofluoromethane	*5.36*		"	*8.00*		*67.0*	*81.1-136*			*S-GC*
Matrix Spike Dup (2080219-MSD1)	**Source: T121309-04**			Prepared: 08/02/12		Analyzed: 08/10/12				
Chlorobenzene	23.1	1.0	ug/l	20.0	ND	115	75-125	0.691	20	
1,1-Dichloroethene	25.4	1.0	"	20.0	ND	127	75-125	0.158	20	QM-05
Trichloroethene	15.7	1.0	"	20.0	ND	78.4	75-125	2.27	20	
Benzene	24.5	0.50	"	20.0	ND	123	75-125	2.97	20	
Toluene	21.5	0.50	"	20.0	ND	108	75-125	0.417	20	
Surrogate: Toluene-d8	*7.22*		"	*8.00*		*90.2*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*6.27*		"	*8.00*		*78.4*	*83.5-119*			*S-GC*
Surrogate: Dibromofluoromethane	*5.65*		"	*8.00*		*70.6*	*81.1-136*			*S-GC*

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2080224 - General Preparation										
Blank (2080224-BLK1)				Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	ND	0.10	mg/l							
LCS (2080224-BS1)				Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	0.989	0.10	mg/l	1.00		98.9	90-110			
Matrix Spike (2080224-MS1)	**Source: T121313-01**			Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	1.70	0.10	mg/l	1.00	0.682	102	90-110			
Matrix Spike Dup (2080224-MSD1)	**Source: T121313-01**			Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	1.75	0.10	mg/l	1.00	0.682	107	90-110	3.24	20	
Batch 2080226 - General Preparation										
Blank (2080226-BLK1)				Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	ND	5.00	mg/kg							
LCS (2080226-BS1)				Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	23.9	5.00	mg/kg	25.0		95.6	90-110			
Matrix Spike (2080226-MS1)	**Source: T121309-02**			Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	30.8	5.00	mg/kg	25.0	5.75	100	90-110			
Matrix Spike Dup (2080226-MSD1)	**Source: T121309-02**			Prepared: 08/02/12		Analyzed: 08/06/12				
Ammonia as NH3	32.9	5.00	mg/kg	25.0	5.75	108	90-110	6.60	25	

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	08/15/12 15:03

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).
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
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.

Daniel J Chavez

Daniel Chavez, Project Manager

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Chain of Custody Record

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

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

Date: 08/01/2012 Page: 1 Of 1
Project Name: California Syrup & Extract
Collector: J Gribi Client Project #:
Batch #: T121309 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260=TPH-G/BTEX/OXY/AMMONIA & MEK/MIBK	~~8260 - OXY~~	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel) / Motor Oil	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	Ammonia by 350.1	Nitrogen by 350.3		Hold	Laboratory ID #	Comments/Preservative	Total # of containers
B-1-7.5	08/01/12	0855	S	Sleeve													X	01		1
B-1-11.0		0900	S	4	X						X			X	X			02		1
B-1-15.0		0910	S	4	X						X			X	X			03		1
B-1-WJ		0920	GW	VOA/Poly	X													04		10
MW-3-6.0		1050	S	Sleeve	X						X			X	X			05		1
MW-3-10.5		1100	S	a	X						X			X	X			06		1
MW-3-14.0		1110	S	"													X	07		1
MW-4-6.0		1245	S	"	X						X			X	X			08		1
MW-4-10.5		1250	S	"	X						X			X	X			09		1
MW-4-14.0		1255	S	"	X						X			X	X			10		1
MW-4-18.5	↓	1310	S	"	X						X			X	X			11		1

Relinquished by: (signature) Date / Time 8/1/12 1645 — Received by: (signature) Date / Time 8/1/12 1645

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

Relinquished by: (signature) Date / Time 8.2.12 10:15 — Received by: (signature) Date / Time 8.2.12 10:15

Sample disposal instructions: Disposal @ $2.00 each ___ Return to client ___ Pickup ___

Turn around time: STD. TAT 8.2.12

Notes
Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: 5.0
Total # of containers: 20

COC 91947

SunStar Laboratories, Inc.
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SAMPLE RECEIVING REVIEW SHEET

BATCH # T121309

Client Name: Gribi Project: California Syrup + Extract

Received by: Brian Date/Time Received: 8/2/12 1015

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 5.2 °C +/- the CF (- 0.2°C) = 5.0 °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 BM 8/2/12

Comments:

_____

_____

_____

_____

SunStar Laboratories, Inc.
PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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949.297.5027 Fax

04 September 2012

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

RE: California Syrup and Extract

Enclosed are the results of analyses for samples received by the laboratory on 08/17/12 09:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Chavez
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: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	T121403-01	Water	08/16/12 10:09	08/17/12 09:40
MW-2	T121403-02	Water	08/16/12 09:15	08/17/12 09:40
MW-3	T121403-03	Water	08/16/12 08:20	08/17/12 09:40
MW-4	T121403-04	Water	08/16/12 11:08	08/17/12 09:40

SunStar Laboratories, Inc.

Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

MW-1
T121403-01 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	0.050	mg/l	1	2081633	08/16/12	08/20/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*83.1 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Methyl isobutyl ketone	ND	10	ug/l	1	2081714	08/17/12	08/21/12	EPA 8260B	
Methyl ethyl ketone	ND	10	"	"	"	"	"	"	
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		*107 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*81.1-136*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	0.10	mg/l	1	2081712	08/17/12	08/20/12	EPA 350.2	
Total Nitrogen	**0.104**	0.100	"	"	2081713	08/17/12	08/21/12	EPA 353.2	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

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Providing Quality Analytical Services Nationwide

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949.297.5027 Fax

Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

MW-2
T121403-02 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	**0.75**	0.050	mg/l	1	2081633	08/16/12	08/20/12	EPA 8015C	D-08
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*101 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Methyl isobutyl ketone	ND	10	ug/l	1	2081714	08/17/12	08/21/12	EPA 8260B	
Methyl ethyl ketone	ND	10	"	"	"	"	"	"	
Benzene	**110**	0.50	"	"	"	"	"	"	
Toluene	**9.9**	0.50	"	"	"	"	"	"	
Ethylbenzene	**4.0**	0.50	"	"	"	"	"	"	
m,p-Xylene	**5.5**	1.0	"	"	"	"	"	"	
o-Xylene	**1.9**	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	**26**	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	**4100**	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*	*81.1-136*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	0.10	mg/l	1	2081712	08/17/12	08/20/12	EPA 350.2	
Total Nitrogen	**0.158**	0.100	"	"	2081713	08/17/12	08/21/12	EPA 353.2	

SunStar Laboratories, Inc.

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Daniel Chavez, Project Manager

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Providing Quality Analytical Services Nationwide

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

MW-3
T121403-03 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	0.050	mg/l	1	2081633	08/16/12	08/20/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*103 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Methyl isobutyl ketone	ND	10	ug/l	1	2081714	08/17/12	08/21/12	EPA 8260B	
Methyl ethyl ketone	ND	10	"	"	"	"	"	"	
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	**1.2**	1.0	"	"	"	"	"	"	
C6-C12 (GRO)	ND	50	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*88.4 %*	*81.1-136*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	0.10	mg/l	1	2081712	08/17/12	08/20/12	EPA 350.2	
Total Nitrogen	ND	0.100	"	"	2081713	08/17/12	08/21/12	EPA 353.2	

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

MW-4
T121403-04 (Water)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Extractable Petroleum Hydrocarbons by 8015C									
C13-C28 (DRO)	ND	0.050	mg/l	1	2081633	08/16/12	08/20/12	EPA 8015C	
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	
Surrogate: p-Terphenyl		*104 %*	*65-135*		"	"	"	"	
Volatile Organic Compounds by EPA Method 8260B									
Methyl ethyl ketone	ND	10	ug/l	1	2081714	08/17/12	08/21/12	EPA 8260B	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
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		*96.5 %*	*88.8-117*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*83.5-119*		"	"	"	"	
Surrogate: Dibromofluoromethane		*86.9 %*	*81.1-136*		"	"	"	"	
Conventional Chemistry Parameters by APHA/EPA/ASTM Methods									
Ammonia as NH3	ND	0.10	mg/l	1	2081712	08/17/12	08/20/12	EPA 350.2	
Total Nitrogen	**0.408**	0.100	"	"	2081713	08/17/12	08/21/12	EPA 353.2	

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Daniel Chavez, Project Manager

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2081633 - EPA 3510C GC										
Blank (2081633-BLK1)				Prepared: 08/16/12 Analyzed: 08/20/12						
C13-C28 (DRO)	ND	0.050	mg/l							
C29-C40 (MORO)	ND	0.10	"							
Surrogate: p-Terphenyl	*3.32*		*"*	*4.00*		*83.1*	*65-135*			
LCS (2081633-BS1)				Prepared: 08/16/12 Analyzed: 08/20/12						
C13-C28 (DRO)	19.4	0.050	mg/l	20.0		97.1	75-125			
Surrogate: p-Terphenyl	*3.22*		*"*	*4.00*		*80.6*	*65-135*			
Matrix Spike (2081633-MS1)	**Source: T121386-01**			Prepared: 08/16/12 Analyzed: 08/20/12						
C13-C28 (DRO)	16.9	0.050	mg/l	20.0	ND	84.3	75-125			
Surrogate: p-Terphenyl	*3.77*		*"*	*4.00*		*94.3*	*65-135*			
Matrix Spike Dup (2081633-MSD1)	**Source: T121386-01**			Prepared: 08/16/12 Analyzed: 08/20/12						
C13-C28 (DRO)	16.9	0.050	mg/l	20.0	ND	84.7	75-125	0.492	20	
Surrogate: p-Terphenyl	*3.84*		*"*	*4.00*		*95.9*	*65-135*			

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

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 2081714 - EPA 5030 GCMS										
Blank (2081714-BLK1)				Prepared: 08/17/12 Analyzed: 08/21/12						
Methyl ethyl ketone	ND	10	ug/l							
Methyl isobutyl ketone	ND	10	"							
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	*8.03*		*"*	*8.00*		*100*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.24*		*"*	*8.00*		*103*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.67*		*"*	*8.00*		*95.9*	*81.1-136*			
LCS (2081714-BS1)				Prepared: 08/17/12 Analyzed: 08/20/12						
Chlorobenzene	19.6	1.0	ug/l	20.0		98.0	75-125			
1,1-Dichloroethene	21.6	1.0	"	20.0		108	75-125			
Trichloroethene	18.8	1.0	"	20.0		94.2	75-125			
Benzene	18.5	0.50	"	20.0		92.3	75-125			
Toluene	17.6	0.50	"	20.0		87.8	75-125			
Surrogate: Toluene-d8	*7.65*		*"*	*8.00*		*95.6*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.35*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.30*		*"*	*8.00*		*91.2*	*81.1-136*			
Matrix Spike (2081714-MS1)	**Source: T121401-01**			Prepared: 08/17/12 Analyzed: 08/20/12						
Chlorobenzene	18.9	1.0	ug/l	20.0	ND	94.6	75-125			
1,1-Dichloroethene	22.0	1.0	"	20.0	ND	110	75-125			
Trichloroethene	17.1	1.0	"	20.0	ND	85.5	75-125			
Benzene	18.3	0.50	"	20.0	ND	91.6	75-125			
Toluene	16.8	0.50	"	20.0	ND	84.0	75-125			
Surrogate: Toluene-d8	*7.64*		*"*	*8.00*		*95.5*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.31*		*"*	*8.00*		*104*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.29*		*"*	*8.00*		*91.1*	*81.1-136*			

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

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 2081714 - EPA 5030 GCMS										
Matrix Spike Dup (2081714-MSD1)	**Source: T121401-01**			Prepared: 08/17/12	Analyzed: 08/21/12					
Chlorobenzene	18.5	1.0	ug/l	20.0	ND	92.4	75-125	2.25	20	
1,1-Dichloroethene	21.5	1.0	"	20.0	ND	108	75-125	2.43	20	
Trichloroethene	17.2	1.0	"	20.0	ND	86.2	75-125	0.815	20	
Benzene	18.1	0.50	"	20.0	ND	90.6	75-125	1.10	20	
Toluene	16.6	0.50	"	20.0	ND	83.0	75-125	1.26	20	
Surrogate: Toluene-d8	*7.70*		*"*	*8.00*		*96.2*	*88.8-117*			
Surrogate: 4-Bromofluorobenzene	*8.44*		*"*	*8.00*		*106*	*83.5-119*			
Surrogate: Dibromofluoromethane	*7.27*		*"*	*8.00*		*90.9*	*81.1-136*			

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

Conventional Chemistry Parameters by APHA/EPA/ASTM Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2081712 - General Preparation										
Blank (2081712-BLK1)				Prepared: 08/17/12	Analyzed: 08/20/12					
Ammonia as NH3	ND	0.10	mg/l							
LCS (2081712-BS1)				Prepared: 08/17/12	Analyzed: 08/20/12					
Ammonia as NH3	0.936	0.10	mg/l	1.00		93.6	90-110			
Matrix Spike (2081712-MS1)	**Source: T121402-01**			Prepared: 08/17/12	Analyzed: 08/20/12					
Ammonia as NH3	1.35	0.10	mg/l	1.00	0.360	99.2	90-110			
Matrix Spike Dup (2081712-MSD1)	**Source: T121402-01**			Prepared: 08/17/12	Analyzed: 08/20/12					
Ammonia as NH3	1.38	0.10	mg/l	1.00	0.360	102	90-110	2.34	20	
Batch 2081713 - General Preparation										
Blank (2081713-BLK1)				Prepared: 08/17/12	Analyzed: 08/21/12					
Total Kjeldahl Nitrogen	ND	0.100	mg/l							
LCS (2081713-BS1)				Prepared: 08/17/12	Analyzed: 08/21/12					
Total Kjeldahl Nitrogen	0.969	0.100	mg/l	1.00		96.9	80-120			
Matrix Spike (2081713-MS1)	**Source: T121403-01**			Prepared: 08/17/12	Analyzed: 08/21/12					
Total Kjeldahl Nitrogen	1.01	0.100	mg/l	1.00	0.104	90.6	75-125			
Matrix Spike Dup (2081713-MSD1)	**Source: T121403-01**			Prepared: 08/17/12	Analyzed: 08/21/12					
Total Kjeldahl Nitrogen	1.05	0.100	mg/l	1.00	0.104	94.2	75-125	3.50	20	

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PROVIDING QUALITY ANALYTICAL SERVICES NATIONWIDE

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Gribi Associates	Project: California Syrup and Extract	
1090 Adam Street, Suite K	Project Number: [none]	**Reported:**
Benicia CA, 94510	Project Manager: Jim Gribi	09/04/12 17:05

Notes and Definitions

D-08	Hydrocarbon pattern present in the diesel range, but appears to be from gasoline range overlap and does not match the diesel pattern.
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

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Daniel Chavez, Project Manager

SunStar Laboratories, Inc.
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Lake Forest, CA 92630
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Chain of Custody Record

Client: Gribi Associates
Address: 1090 Adams St., Suite K, Benicia, CA 94510
Phone: 707-748-7743 Fax: 707-748-7763
Project Manager: J. Gribi

Date: Aug. 16, 2012 Page: 1 Of 1
Project Name: California Syrup & Extract
Collector: R. Bet-Yonan Client Project #:
Batch #: T171403 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260 B (TPH-g + BTEX + OXY + MTBE)	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	8015C (TPH-D + TPH-MO)	Ammonia as NH3 + Total Nitrogen	Laboratory ID #	Comments/Preservative	Total # of containers
MW-1	8/16/12	10:09	water	VOA	X									X	X	01		8
MW-2	8/16/12	9:15	water	VOA	X									X	X	02		8
MW-3	8/16/12	8:20	water	VOA	X									X	X	03		8
MW-4	8/16/12	11:08	water	VOA	X									X	X	04		8

Relinquished by: (signature)	Date / Time 8/16/12 14:31	Received by: (signature)	Date / Time 8/16/12 2:35
Relinquished by: (signature)	Date / Time	Received by: (signature)	Date / Time
Relinquished by: (signature) GSO	Date / Time 8.17.12 9:40	Received by: (signature)	Date / Time 8.17.12 9:40

Total # of containers: 32
Chain of Custody seals Y/N/NA: Y
Seals intact? Y/N/NA: Y
Received good condition/cold: 5.2
Turn around time:

Notes: STD. TAT
BC
8.17.12

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

COC 101538

SunStar Laboratories, Inc.
Providing Quality Analytical Services Nationwide

SAMPLE RECEIVING REVIEW SHEET

BATCH # 1121903

Client Name: GREIBI Project: California Syrup Extract

Received by: BRIAN Date/Time Received: 8.17.12 9:40

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 5.4 °C +/- the CF (- 0.2°C) = 5.2 °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 BL 8.17.12

Comments:

_____

_____

_____

_____