ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY





December 8, 1998 StID# 3953

Mr. Nick Mehta c/o R.W. Thayer Food Products 962 87th Ave. Oakland, CA 94621 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

RE: Fuel Leak Site Case Closure, 962 87th Ave., Oakland CA 94621

Dear Mr. Mehta:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with the Health and Safety Code, Chapter 6.75 (Article 4, Section 25299.37 h). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Health Services, Local Oversight Program (LOP) is required to use this case closure letter. We are also enclosing the case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

- 2300 parts per billion (ppb) Total Petroleum Hydrocarbons as gasoline, 130,13,87 and 290 ppb, BTEX (benzene, toluene, ethyl benzene and xylenes), respectively remain in groundwater at the site.
- 450 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline, 3.1,3.8,12 and 57 ppm, BTEX, respectively remain in soil at the site.

This site should be included in the City's permit tracking system. Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan

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Hazardous Materials Specialist

Mr. Nick Mehta 962 87th Ave., Oakland CA 94621 StID # 3953 December 8, 1998 Page 2.

enclosures: Case Closure Letter, Case Closure Summary

ALAMEDA COUNTY

HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

December 8, 1998. StID # 3953 ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP)

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577

(510) 567-6700

FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Nick Mehta c/o Thayer Food Products 962 87th Ave. Oakland CA 94621

RE: R.W. Thayer Food Products, 962 87th Ave., Oakland 94621

Dear Mr. Mehta:

This letter confirms the completion of site investigation and remedial action for the one (1) 1,000 gallon UL gasoline tank at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground tank is greatly appreciated.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank releases is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung

Director, Environmental Health

C: B. Chan, Hazardous Materials Division-files Chuck Headlee, RWQCB

Mr. Dave Deaner, SWRCB Cleanup Fund

Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612

RACC962-87

ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY





December 8, 1998 StID# 3953

Mr. Nick Mehta c/o R.W. Thayer Food Products 962 87th Ave. Oakland, CA 94621 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway. Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

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- 450 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline, 3.1,3.8,12 and 57 ppm, BTEX, respectively remain in soil at the site.

This site should be included in the City's permit tracking system. Please contact me at (510) 567-6765 if you have any questions.

Sincerely,

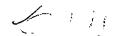
Barney M. Chan

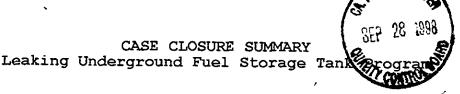
Baues as Ohe

Hazardous Materials Specialist

Mr. Nick Mehta 962 87th Ave., Oakland CA 94621 StID # 3953 December 8, 1998 Page 2.

enclosures: Case Closure Letter, Case Closure Summary





I. AGENCY INFORMATION

Date: June 22, 1998

Alameda County-HazMat Address: 1131 Harbor Bay Parkway Agency name:

Rm 250, Alameda CA 94502

City/State/Zip: Alameda

Phone: (510) 567-6700

Responsible staff person:Barney Chan Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: R. W. Thayer Food Products

Site facility address: 962 87th Ave., Oakland CA 94621

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3953

ULR filing date: not filed SWEEPS No: N/A

Responsible Parties: Addresses:

Phone Numbers:

510-569-7943

R.W. Thayer Food Products c/o 962 87th Ave.

Mr. Nick Mehta Oakland CA 94621

Tank Size in Contents: Closed in-place Da<u>te:</u> No: gal.: or removed?: 1000 UL gasoline Removed 2/9/96

IIT RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: possibly from the holes observed in tank

Site characterization complete? Yes

Date approved by oversight agency:

Monitoring Wells installed? Yes Number: 3

Proper screened interval? Yes, approximately 5-20' bgs

Leaking Underground Fuel Storage Program

Highest GW depth: 6.65' bgs Lowest depth: 8.52' bgs

Flow direction: south-southwesterly

Most sensitive current use: commercial/industrial

Are drinking water wells affected? No Aquifer name: NA

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): NA

Report(s) on file? Yes Where is report(s)? Alameda County
1131 Harbor Bay Parkway,
Room 250, Alameda CA 94502-6577

Treatment and Disposal of Affected Material:

Material A	mount lude units)	Action (Treatment of Disposal w/destination)	<u>Date</u>
Product/Rinsate	000 gallon 150 gallon	Disposed @ Erickson, Richmond Recycled @ Alviso Oil Facility Alviso, CA	2/9/96 2/9/96
Soil	35 tons	Disposed @ Forward Landfill Stockton, CA	2/9/96

Maximum Documented Contaminant Concentrations - - Before and After Cleanup Contaminant Soil (ppm) Water (ppb)

oon continuing	Soll	4T-T	Water (ppb		
TPH (Gas) Benzene Toluene Ethylbenzene Xylenes MTBE Organic Lead	1 <u>Before</u> 450 3.1 3.8 12 57 ND ND	After 450 3.1 3.8 12 57 ND	2Before 57,000 1100 1700 3100 12,000 620	After 2300 130 13 87 290 ND	

Comments (Depth of Remediation, etc.):

1 soil sample results from boring BH-C (7/94)

2 water samples from BH-C, BH-D (7/96) and BH-F (4/98)

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? YES

Site management requirements: site should be included in the City of Oakland Permit Tracking System. A site health and safety plan will be required for any subsurface work.

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: No

Number Decommisioned: 0

Number Retained: 3

List enforcement actions taken: none

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan

Signature: Bank M. Cha

Title: Hazardous Materials Specialist

Date: 9(17/9)

Reviewed by

Name: Tom Peacock

Signature: Man Jean

Name: Madhulla Logan

Signature: Inhilla Joggn

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RWQCB Staff Name: C. Headlee

Title: Manager

Date: 9-15-98

Title: Hazardous Materials Specialist

Date: 7/29/98

RB Response:

Title: EG

Date:

0/1/98

Leaking Underground Fuel Storage Tank Program VII. ADDITIONAL COMMENTS, DATA, ETC.

See attached site summary.

Page 4 of 4

Site summary for R.W. Thayer Food Products, 962 87th Ave., Oakland CA 94621

On June 17, 1994, prior to the removal of the 1000 gallon gasoline tank, a subsurface investigation was performed to determine if there had been any releases from the tank. Four soil borings (BH-A through BH-D) were advanced around the immediate vicinity of the tank and soil samples were collected at a depth of 7.5' bgs. Up to 450 ppm TPHg and 3.1, 3.8, 12, 57 ppm BTEX, respectively was found in these soil samples. Due to the moisture observed in these samples and the anticipated shallow groundwater, groundwater impact was assumed. See Figure 1 and Tables 1 & 2.

On February 9, 1996, the 1000 gallon steel tank was removed from the site. One hundred-fifty gallons of residual product and rinsate was removed and disposed from the tank. Due to physical constraints, over-excavation was limited to a total of 34.79 tons of soil. Four soil samples were taken from the ends and sidewalls of the excavation at a depth of 7 and 8' bgs. The dispenser, located approximately 10' south of the tank within the production area building, was removed as was the piping leading to the tank. Up to 490 ppm TPHg and 4.8, 7.4, 29.4 TEX was exhibited in these samples. Benzene and MTBE was not found in any of the soil samples. It is noted that during the removal of the tank, three of the four sides of the tank were over-excavated. Only the south end where boring BH-C was located was not over-excavated. See Figure 2 and Table 3.

On July 22, 1996, a subsurface investigation was performed to determine the limits of both soil and groundwater contamination. One boring was advanced within the former tank pit and the other four on the east, west, north and south sides of the tank. The soil samples were collected at a depth of 7.5°. Up to 220 ppm TPHg and 0.5, 2.0, 4.3 and 19 ppm, BTEX, respectively was found in these samples. Grab groundwater samples were also collected from each of the borings. Up to 57,000 ppb TPHg and 940, 1700, 3100, 12000 ppb BTEX was exhibited in the grab groundwater samples from the borings. No MTBE was detected in any of the water samples which were analyzed via EPA Method 8020. See Figure 3 and Tables 4 and 5.

Based upon the results of the July 1996 investigation, our office requested the installation of monitoring wells.

On September 19, 1996 soil borings MW-1, MW-2 and MW-3 were drilled at the site. Subsurface soils encountered were silty clay to 8' bgs and silty sand from 8-20' bgs. Monitoring well MW-1 was located up-gradient while MW-2 and MW-3 were located down-gradient. Soil samples from these borings were taken at a depth of 6'. Up to 130 ppm TPHg, and 0.82,0.45, 2.6. 5.9 ppm BTEX, respectively was exhibited in these samples. MTBE was not detected in any of the soil samples. See Table 6, Figure 4 and the accompanying boring logs.

Quarterly groundwater monitoring was performed for the next three quarters after which the consultant requested site closure based upon a cursory Tier 1 Risk Evaluation. However, our office had a number of concerns with the risk assessment. Groundwater contamination did not appear to have stabilized in MW-2 and not all viable exposure pathways were examined. Groundwater gradient was southwesterly and the petroleum release appeared to have migrated within the production area and beyond to off-site residential properties.

Site Summary for Thayer Food Products 962 87th Ave., Oakland CA 94621 Page 2

After the next quarter's monitoring event in October of 1997, a revised risk assessment was submitted. Upon review of this risk assessment, it was determined that there was inadequate sampling near the former dispenser, which was located inside the production area building. Other specific comments from our risk assessor pertained to the exact samples to be included in the risk assessment and other items.

To address this Department's concerns, an additional geoprobe boring was proposed within the production area building, just down-gradient of the former pump. Both soil and groundwater samples were to be taken from the boring. This work occurred on April 1, 1998. The soil sample taken from 7.5° from this boring (BH-F) exhibited 2.6 and 15 ppm ethyl benzene and xylenes, respectively. TPHg, B,T and MTBE were all ND, however, the detection limits for these analytes were very high due to unidentified material cluting in the gasoline range. The grab groundwater sample exhibited 1100, 450, 690 and 3000 ppb, BTEX, respectively. TPHg was ND, <2500 ppb and MTBE was 620 ppb detected via EPA Method 8020. See Figure 5 and Tables 7 and 8.

Using this data, a revised risk assessment was prepared and reviewed by Madhulla Logan, County Risk Assessor. The results of the evaluation of this risk assessment were as follows:

- Scenario 1- Construction Worker Exposure: Using the average soil concentration of samples
 from all three wells, the five borings done in July 1996 and the April 98 boring, the surface
 soil SSTL was not exceeded. This assumes a 1E-5 excess cancer risk and a hazard quotient
 of 1.
- Scenario 2- Vapor Intrusion from Subsurface Soil to On-site Industrial Building. The
 consultant proposed to use the average soil concentration from all three monitoring wells, the
 five borings of July 96 and the April 98 boring. Doing this, the SSTL was not exceeded.
 However, the more appropriate sample locations for this exposure pathway should include
 only those samples within the production building
- Scenario 3- Vapor Intrusion from Groundwater to an On-site Building. The consultant
 proposed to use the average groundwater concentration from all three wells during the five
 sampling events as well as the sample from the April 1998 boring. However, to best
 represent the groundwater concentration from on-site exposure, you should take the
 groundwater concentration from MW-2 and that from borings BH-E and BH-F.
- Scenario 4- Vapor Intrusion from Groundwater to an Off-site Residence. Groundwater concentrations from monitoring wells MW-2, MW-3 and boring BH-F were averaged to estimate the potential average source benzene concentration. The nearest off-site residence was determined by site inspection to be 125' away. The groundwater concentration 125' down-gradient was determined using the Domenico fate and transport model and the GSI program. This concentration was then compared with the SSTL for on-site residential indoor and outdoor exposure scenario.

Site Summary for R. W. Thayer Food Products 962 87th Ave., StID # 3953 Page 3.

Upon review of this risk assessment, a few changes were made by our office to represent more representative soil and groundwater samples. The following changes were made:

Revised risk assessment prepared by Alameda County:

Assumes an acceptable risk of 1E-5 and commercial exposure except when noted as residential.

Scenario 1- Construction worker exposure:

Total benzene concentration from borings BH-A through BH-F and borings from MW-1 through MW-3 yielded 3.265/9=0.363 ppm which is less than the SSTL for the construction worker or 840 ppm benzene. See Tier 2 worksheet.

Scenario 2- Vapor Intrusion from subsurface soil to on-site industrial building. The average benzene soil concentration of borings BH-F, BH-E and MW-2 is 2.35/3 = 0.78 ppm which is lower than the SSTL of 1.1ppm. Note ½ the detection limit is used when ND is reported for the concentration of benzene. See Tier 2 worksheet.

Scenario 3- Vapor intrusion from groundwater to on-site building. The benzene groundwater concentration from MW-2 for the past four quarters plus that from borings BH-E and BH-F is 1634/6= 272 ppb which is less than the SSTL of 720 ppb. See Tier 2 worksheet.

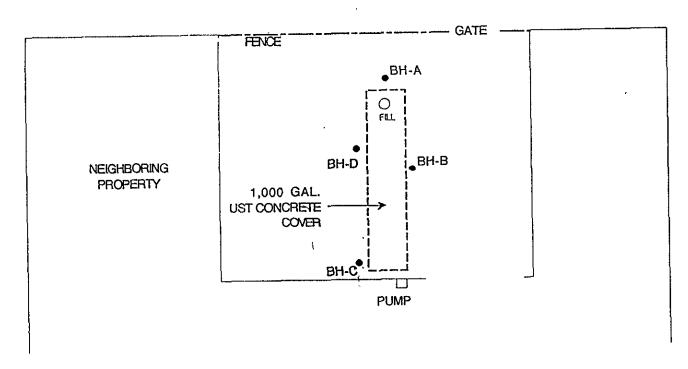
Scenario 4- Vapor intrusion from groundwater to an off-site residence. Benzene groundwater concentrations from monitoring wells MW-2, MW-3 and boring BH-F were averaged to yield 1712/11= 156 ppb. Since the GSI model does not directly calculate risk from vapor intrusion to indoor air for off-site receptors, the Domenico model was used to determine the off-site residence groundwater concentration using the above initial concentration (1.6E-1). This point of exposure concentration was determined to be 2.1E-2 ppm. This concentration was then compared to the groundwater volatilization to indoor and outdoor air SSTL values. The 2.1E-2 ppm concentration was less than the both SSTL values (2.3E-2 and 1.7E+1) at a 1.0E-6 risk.

Based on this risk evaluation, site closure is recommended as a "low risk groundwater site".

- The underground tank and as much of the affected soil as possible has been removed.
- The site has been adequately characterized through the advancement of soil borings and monitoring wells.
- Groundwater concentration has apparently stabilized.
- From the HHRA, no health risk is expected to human health.

The presence of 640 ppb MTBE in the grab groundwater sample from boring BH-F should be discounted since no MTBE was ever detected in any soil samples nor any other grab or monitoring well water sample. Although, EPA Method 8240 or 8260 has not been run on any of the groundwater samples, MTBE was not detected in any other sample other than that from BH-F. When boring BH-F was advanced there was no policy requiring GC/MS confirmation analysis. In addition, monitoring well MW-2 is downgradient of BH-F and has never detected MTBE in any of the monitoring events.

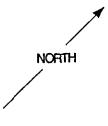
87TH AVENUE



PRODUCTION AREA



• Soil Boring Location



SCALE: 1" = 10'

SITE PLAN

R.W. Thayer Food Products, Inc. 962 87th Avenue Oakland, California

AQUA SCIENCE ENGINEERS, INC.

Figure 1

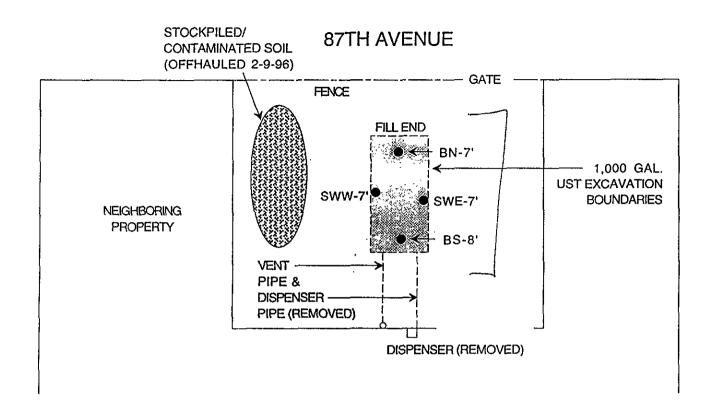
TABLE ONE
Summary of Chemical Analyses of
SOIL SAMPLES

	TPH	(Ethyl	Total
Sample	Gasoline	/Benzene \	Toluene	Benzene	Xylenes
I.D	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
BH-A	220 /	0.68	1.0	3.4	7.5
BH-B	3.3	0.23	0.007	0.03	0.04
BH-C	450 🗸	\ 3.1 /	3.8	12	57
BH-D	170	1.2	1.2	4.1	4.4
DETECTION LIMIT	0.2	0.005	0.005	0.005	0.005
EPA METHOD	8015M	8020	8020	8020	8020

TABLE TWO Summary of Chemical Analyses of SOIL SAMPLES

TPH Sample I.D.	Organic Lead (ppm)	Diesel (ppm)	Oil & Grease (ppm)	Paint Thinner (ppm)
BH-A	N.D.			
BH-B	~ ~ ~			
BH-C				
BH-D		N.D.	N.D.	10
DETECTION LIMIT	ON 0.5	1.0	5.0	1.0
EPA METHOD	DOHS-LUFT	3550	3550	3550
p p m N.D.	parts per n not detected not analyze		etection li	mit

ppm parts per million



PRODUCTION AREA



SWW-7

SOIL SAMPLE LOCATION



SCALE: 1" = 10"

SITE & SAMPLING PLAN

R.W. Thayer Food Products, Inc. 962 87th Avenue Oakland, California

AQUA SCIENCE ENGINEERS, INC.

Figure 2

TABLE 3 SOIL SAMPLE RESULTS

	<u> </u>	All Results	in Parts P	er Million adtacepta Ethyl	ue NO Re	vels
Sample Name	TPH Gasoline	Benzene	est de ace. Toluene	Ethyl Benzene	Total Xylenes	MTBE
BN-7' BS-8' SWE-7' SWW-7'	26 260 130 490	< 0.013 < 0.035 < 0.02 < 0.1	< 0.013 2.9 < 0.02 4.8	0.340 2.4 0.49 7.4	0.380 12 0.78 29.4	< 0.050 < 0.14 < 0.08 < 0.4
EPA METHOD	8015M	8020	8020	8020	8020	8020

11.0 EXCAVATION BACKFILLING AND RESURFACING

On February 9, 1996, ASE backfilled and compacted the entire excavation with 49.15 tons of clean, imported, granular backfill material. On February 10, 1996, the excavation was resurfaced with rebar-reinforced concrete to match the existing surroundings.

12.0 CONCLUSIONS AND RECOMMENDATIONS

- * On February 9, 1996, one (1) 1,000 gallon gasoline UST was removed from the Thayer Food Products, Inc. facility in Oakland, CA and disposed of off site.
- * Contaminated soil beneath the UST was overexcavated and immediately hauled from the property and disposed of at the Forward, Inc. facility in Manteca, CA where it was remediated then disposed of as Class II cover material.
- * The entire excavation was then backfilled with imported fill material, compacted and resurfaced.
- * Elevated concentrations of petroleum hydrocarbons as gasoline and BTEX exist in the soil below the former UST. These concentrations typically warrant additional assessment activities per the guidelines set by the ACHCSA.

ASE recommends no further soil excavation or remedial activities related to the former underground storage tank. We recommend that a copy of this report be mailed to Mr. Barney Chan of the ACHCSA for further guidance from that agency.

BH-A NO(5.1) ppm 310/1.4/1.1 K.5/.74 ppb(GGW) 7PHg B 7 E X

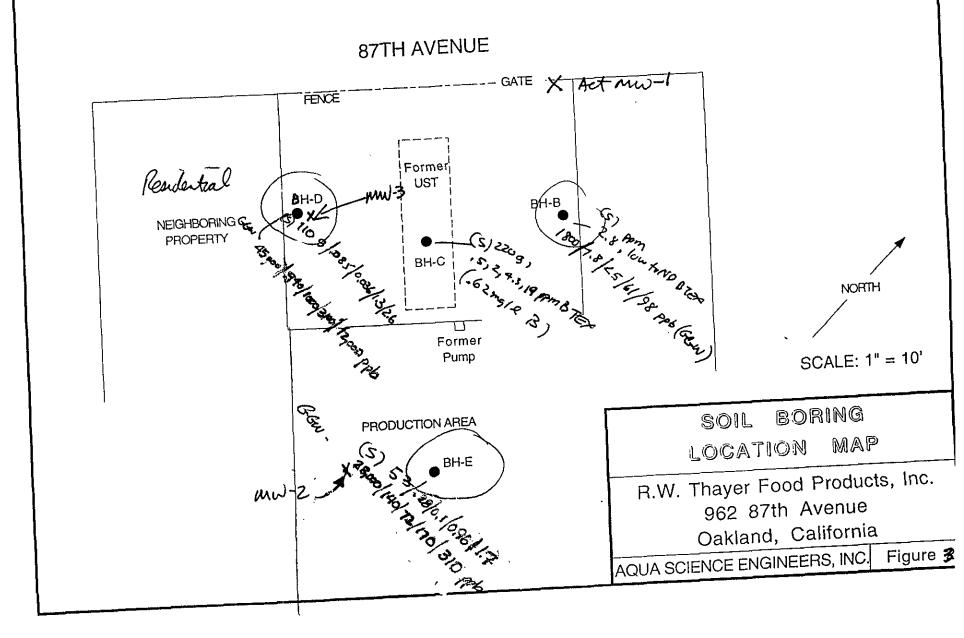


TABLE 4
Summary of Chemical Analysis of SOIL Samples
All results are in parts per million

Boring	Depth Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	
ВН-А	7.5	<1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	
вн-в	7.5'	2.8	0.0050	0.0080	0.018	0.0057	< 0.0050	
вн-с	7.5'	220	0.50	2.0	4.3	19	< 0.017	beneuth USF
BH-D	7.5'	110	0.085	0.036	1.3	2.6	< 0.022	•
вн-е	7.5	53	0.28	0.10	0.96	1.7	< 0.25	•

Notes:

Non-detectable concentrations noted by the less than symbol (<) followed by the detection limit

Soil samples collected from borings BH-A and BH-B northwest and northeast of the former UST contained TPH-G concentrations between non-detectable and 2.8 parts per million (ppm). Soil samples from borings BH-C and BH-D beneath and to the southwest of the former UST contained 220 and 110 ppm TPH-G, respectivily. Soil samples from boring BH-E southeast of the former UST and beneath the site building contained 53 ppm TPH-G. Up to 0.5 ppm benzene, 2.0 ppm toluene, 4.3 ppm ethylbenzene and 19 ppm total xylenes were detected in soil beneath the the former UST. These were the highest hydrocarbon concentrations detected during this assessment. None of these concentrations exceeded the United States Environmental Protection Agency (US EPA) Region IX Preliminary Remediation Goals (PRGs) for residential soil.

6.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples were analyzed by Chromalab for TPH-G by modified EPA Method 5030/8015 and BTEX and MTBE by EPA Method 8020. The analytical results are tabulated in Table Two, and the certified analytical report and chain of custody forms are included in Appendix D.

Summary of Chemical Analysis of GROUNDWATER Samples
All results are in parts per billion

			-	1		
Well or Boring	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
BH-A	310	1.4	1.1	< 0.5	0.74	< 5.0
ВН-В	1,800	7.8	< 5.0	61	98	
BH-C	57,000	620	1,700	2,200	11,000	<50
BH-D	45,000	940	1,000	3,100	12,000	< 1,000
вн-е	28,000	140	72	170	310	< 1,000
DTSC MCL	NE	1.0	100*			< 250
		- · · -	100	680	1,750	NE

Notes:

Non-detectable concentrations noted by the less than symbol (<) followed by the detection limit.

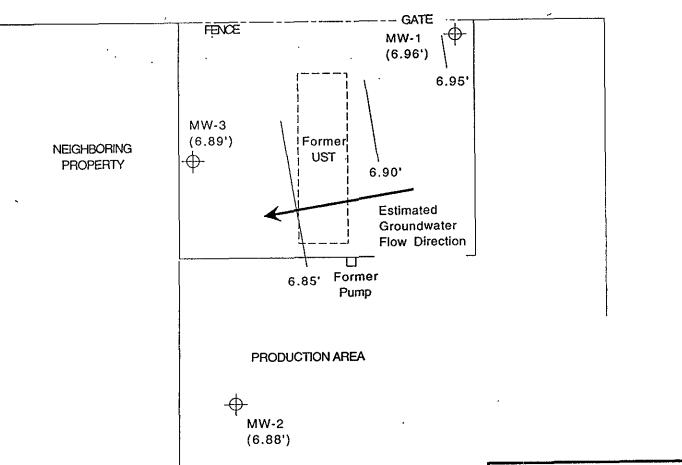
DTSC MCL is the California Department of Toxic Substances Control maximum contaminant level for drinking water.

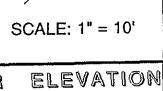
NE = DTSC MCLs are not established.

* = DTSC recommended action level for drinking water; MCL is not established.

Groundwater samples collected from all five soil borings contained benzene concentrations exceeding the California Department of Toxic Substances Control (DTSC) maximum contaminant level (MCL) for drinking water. Groundwater samples collected from borings BH-C, BH-D and BH-E contained ethylbenzene and total xylenes concentrations exceeding the DTSC MCLs and toluene concentrations exceeding the DTSC recommended action level (RAL) for drinking water. The highest hydrocarbon concentrations were in borings beneath and southwest of the former UST followed by boring BH-E, southeast of the former UST in the site building. No MTBE was detected in any of the groundwater samples collected during this assessment.

87TH AVENUE





NORTH

EXPLANATION

→ MW-1 (6.96') Well Location (Groundwater Elevation in Parenthesis)

Groundwater Elevation Contour

GROUNDWATER ELEVATION CONTOUR MAP

R.W. Thayer Food Products, Inc. 962 87th Avenue Oakland, California

AQUA SCIENCE ENGINEERS, INC. Figure 4

ANALYTICAL RESULTS FOR SOIL 5.0

The soil samples collected from 6-feet bgs in each boring were analyzed by Chromalab, Inc. for TPH-G by modified EPA Method 5030/8015 and BTEX and MTBE by EPA Method 8020. The analytical results are tabulated in Table One, and a copy of the certified analytical report and chain of custody form are included in Appendix D.

TABLE 6 Summary of Chemical Analysis of SOIL Samples All results are in parts per million

N = nim a	Depth Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
Boring		1.2	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.0050
MW-1	6.0'		0.82	0.45	2.6	5.9	< 0.75
MW-2	6.0'	130		0.30	1,1	1.6	< 0.74
MW-3	6.0'	94	0.32	0.50	-		

Non-detectable concentrations noted by the less than symbol (<) followed by the detection limit

MONITORING WELL INSTALLATION, DEVELOPMENT AND 6.0 SAMPLING

Groundwater monitoring wells MW-1, MW-2 and MW-3 were installed in borings MW-1, MW-2 and MW-3, respectively. constructed with 2-inch diameter, 0.020-inch slotted, flush-threaded, Schedule 40 PVC well screen and blank casing. Each well is screened between 5-feet bgs and 20-feet bgs (the total depth of each boring) to monitor the first water bearing zone encountered. Lonestar #3 Monterey sand occupies the annular space between the borehole and the casing from the bottom of the boring to approximately 1-foot above the well screen. A 0.5-foot thick hydrated bentonite layer separates the sand from the overlying cement surface seal. The wellheads are secured with locking wellplugs beneath at-grade traffic-rated vaults.

BORING LOG AND WELL CO	OMPLETION D	ETAILS	Monitoring Well: MW-1				
ect Name: R. W. Thayer Food Products Project Location: 962 - 87th Avenue, Oakland, CA Page 1 of 1							
filler: Soils Exploration Services Ty	ype of Rig: Acces	ss II Size	of Drill: 7" O.D. Hollow-Stem Augers				
Logged By: Robert E. Kitay D	ate Drilled: Sep	otember 19, 1996	Checked By: David M. Schultz, P.E.				
WATER AND WELL DATA	То	tal Depth of Well Co	mpleted: 20.0'				
Depth of Water First Encountered: 8'	We	ell Screen Type and	Diameter: 2* Diameter PVC				
Static Depth of Water in Well: 8'	We	ell Screen Slot Size:	0.020"				
Total Depth of Boring: 20.0	Ту	pe and Size of Soil 8	Sampler: 2.0" I.D. California Sampler				
SOIL/ROCK S	AMPLE DATA	DES	SCRIPTION OF LITHOLOGY				
LE MELLIDODINO \$	(ppmv) Graphic Log Denth in F	donoity stiff-	ification, texture, relative moisture, ss, odor-staining, USCS designation.				
Street Box	77777						
Locking Well Cap); black; stiff; damp; 80% clay; 20%				
PVC Bentonite Seal		silt; high plastic	ity; very low estimated K; no odor				
	5	moderate hydro	carbon odor at 7'				
ank Sch 40 PVC Ber Class "H" Portlar							
		Groundwater First E					
10 1 4 6 6 6 6 6 6 6 6 6		Silty SAND (SM); grey; medium dense; wet; 85% fine to medium sand; 15% silt; non-plastic; medium					
Sch 40	9 333333371 (estimated K; mo	oderate hydrocarbon odor				
2" ID Bi							
H.	15	5					
→ legen							
Slotted PVC Well Screen	2						
No.		En	d of boring at 20'				
- DVG	}		.•				
-25 tited	-2	5	,				
			·				
2" I.D. 0.020"	}						
- 'a'			••				
	- 3						
ASE Form 20A		AQUA SCIENCE	ENGINEERS, INC.				

:

BORING LOG AND WELL COMPLETION DETAILS Monitoring Well: MW-2					
oject Name: R. W. Thayer Food F	Products Project	t Location: 962 - 87th Avenue, Oakland, CA Page 1 of 1			
Driller: Soils Exploration Services	Type of Rig: Ad				
Logged By: Robert E. Kitay	Date Drilled:	September 19, 1996 Checked By: David M. Schultz, P.E.			
WATER AND WELL DATA		Total Depth of Well Completed: 20.0'			
Depth of Water First Encountered: 8'		Well Screen Type and Diameter: 2" Diameter PVC			
Static Depth of Water in Well: 8'		Well Screen Slot Size: 0.020"			
Total Depth of Boring: 20.0		Type and Size of Soil Sampler: 2.0" I.D. California Sampler			
1 0 1 1	K SAMPLE DATA				
Depth in Feet Description Blow Ct.	OVM (ppmv) Graphic Log	standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.			
O Street Box Locking Well Ca	. 77777	O Concrete			
Seal Seal	P	Silty CLAY (CH); black; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor			
	274	moderate hydrocarbon odor at 7'			
		▼ Groundwater First Encountered			
	53	SILT (ML); grey; medium stiff; wet; 100% silt; non-plastic; low estimated K; very strong hydrocarbon odor			
1		Silty SAND (SM); grey; medium dense; wet; 85% fine to medium sand; 15% silt; non-plastic; medium estimated K; strong hydrocarbon odor			
		20 End of boring at 20'			
2" I.D. 0.020" Slotted PVC Well Screen		- - -			
0.020" Slo		- 25			
- <u>.</u> .		· · · · · · · · · · · · · · · · · · ·			
		-30			
ASE Form 20A		AQUA SCIENCE ENGINEERS, INC.			

Driller: Soils Exploration Services Type of Rig: Access II Size of Drill: 7" O.D. Hollow-Stem Augers Logged By: Robert E. Kitay Date Drilled: September 19, 1996 Checked By: David M. Schultz, P.E. WATER AND WELL DATA Depth of Water First Encountered: 8' Static Depth of Water in Well: 8' Total Depth of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture							
Driller: Soils Exploration Services Type of Rig: Access II Size of Drill: 7" O.D. Hollow-Stem Augers Checked By: David M. Schultz, P.E. WATER AND WELL DATA Depth of Water First Encountered: 8' Static Depth of Water in Well: 8' Total Depth of Size: 0.020" Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA Size of Drill: 7" O.D. Hollow-Stem Augers Checked By: David M. Schultz, P.E. Well Completed: 20.0' Well Screen Type and Diameter: 2" Diameter PVC Static Depth of Water in Well: 8' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA Standard classification, texture, relative moisture	BORING LOG AND WELL	COMPLETION	DETAILS Monitoring Well: MW-3				
Logged By: Robert E. Kitay Date Drilled: September 19, 1996 Checked By: David M. Schultz, P.E. WATER AND WELL DATA Depth of Water First Encountered: 8' Static Depth of Water in Well: 8' Well Screen Type and Diameter: 2" Diameter PVC Well Screen Slot Size: 0.020" Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA Solic Description Of LITHOLOGY Standard classification, texture, relative moisture	Dject Name: R. W. Thayer Food Products Project Location: 962 - 87th Avenue, Oakland, CA Page 1 of 1						
WATER AND WELL DATA Depth of Water First Encountered: 8' Well Screen Type and Diameter: 2" Diameter PVC Static Depth of Water in Well: 8' Well Screen Slot Size: 0.020" Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA Soil Standard classification, texture, relative moisture	Driller: Soils Exploration Services	Type of Rig: Ad	ocess II Size of Drill: 7" O.D. Hollow-Stem Augers				
Depth of Water First Encountered: 8' Well Screen Type and Diameter: 2" Diameter PVC Static Depth of Water in Well: 8' Well Screen Slot Size: 0.020" Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY Standard classification, texture, relative moisture	Logged By: Robert E. Kitay	Date Drilled:	September 19, 1996 Checked By: David M. Schultz, P.E.				
Static Depth of Water in Well: 8' Well Screen Slot Size: 0.020" Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA Soil Static Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler Soil/Rock Sample DATA Soil/Rock Sample DATA	WATER AND WELL DATA	•	Total Depth of Well Completed: 20.0'				
Total Depth of Boring: 20.0' Type and Size of Soil Sampler: 2.0" I.D. California Sampler SOIL/ROCK SAMPLE DATA DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture	Depth of Water First Encountered: 8'		Well Screen Type and Diameter: 2" Diameter PVC				
SOIL/ROCK SAMPLE DATA Soil/ROCK SAMPLE DATA Soil/ROCK SAMPLE DATA Standard classification, texture, relative moisture	Static Depth of Water in Well: 8'		Well Screen Slot Size: 0.020"				
standard classification, texture, relative moisture	Total Depth of Boring: 20.0'		Type and Size of Soil Sampler: 2.0" I.D. California Sampler				
	<u> </u>	CK SAMPLE DATA	0				
	E WELLYBORING E B	OVM (ppmv) Graphic Log	_				
O Street Box Concrete		2222	0 Concrete				
Silty CLAY (CH); black; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor Moderate hydrocarbon odor at 7' Groundwater First Encountered Silty SAND (SM); olive; dense; wet; 60-80% fine to medium sand; 20-40% silt; non-plastic; medium estimated K; strong hydrocarbon odor	Mell Sand Class "H" Portland Cement Sand Class "H" Portland Cement Seal Seal Seal Seal Seal Seal Seal Seal	160	Silty CLAY (CH); black; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor moderate hydrocarbon odor at 7' Groundwater First Encountered Silty SAND (SM); olive; dense; wet; 60-80% fine to medium sand; 20-40% silt; non-plastic; medium estimated K; strong hydrocarbon odor				
ASE Form 20A A SUIDNO CO	2" I.D. 0.020" Slotted PVC		End of boring at 20'				

.

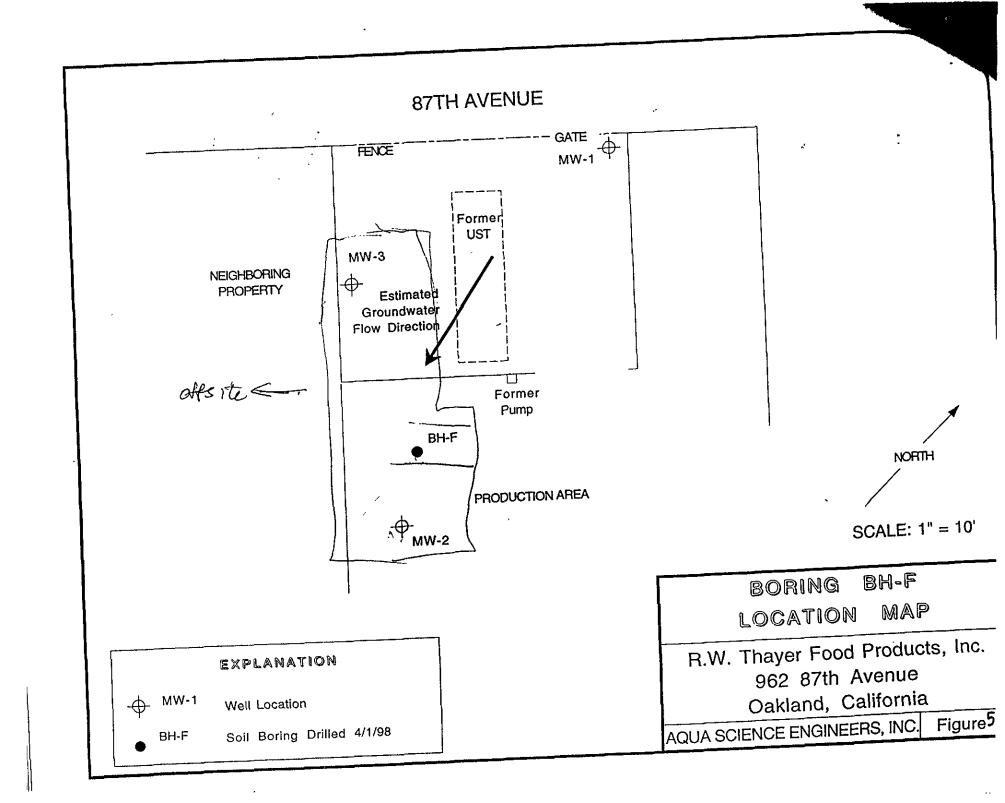


TABLE 7. Summary of Chemical Analysis of SOIL Samples All results are in parts per million

	_ .	Depth Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE	
	Boring	Sampled			< 0.0050	< 0.0050	< 0.0050	< 0.0050	
	BH-A	7.5'	<1	< 0.0050	< 0.0030	,		. 0.0050	
		-,	2.8	0.0050	0.0080	0.018	0.0057	< 0.0050	
	BH-B	7.5'	2.0		,	4.3	19	< 0.017	
	вн-С	7.5'	220	0.50 🗸	2.0	4.5			
	DII-C		110	0.085	0.036	1.3	2.6	< 0.022	
	BH-D	7.5'	110	0.000		2.06	1.7	< 0.25	
	DILE	7.5'	53	0.28	0.10	0.96	1.7	0,20	
	BH-E	7.5		.25	< 2.5	2.6	15	< 40	
-	7 BH-F	7.5'	< 40*	< 2.5	\ 2. 3		- 00/1	< 0.0050	
/ /	/	c 01	1.2	< 0.0050	< 0.0050	< 0.0050	0.0061	< 0.00.0	
D /	MW-1	6.0'	1.2		/ 0.45	2.6	5.9	< 0.75	
e are 1	MW-2	6.0'	130	0.82	0.45	2.0	_		
stugh	. 147 11 - 5		0.4	0.32	0.30	1.1	1.6	< 0.74	
, my	MW-3	6.0'	9 4	0.54		•			

Non-detectable concentrations noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

* = Hydrocarbons uncharacteristic of gasoline found in gasoline range at 330 parts per million.

TABLE 8 Groundwater Analytical Results All results are in parts per billion

	-		-	_		
Well & Date Sampled	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
MW-1						
09-26-96	4,200	14	4.5	120	570	< 25
09-20-90	85	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
04-07-97	120	0.89	< 0.5	1.1	< 0.5	< 5.0
04-07-97	99	< 0.5	< 0.5	0.72	< 0.5	< 5.0
10-20-97	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10-20-57	_ 30					
MW-2						
09-26-96	730	18_	2.1	11	6 5	< 5.0
01-16-97	780	87	1.2	0.94	7.5	< 5.0
04-07-97	380	27	< 0.5	2.0	9.4	< 5.0
07-15-97	3,600	150	11	87	370	< 5.0
10-20-97	2,300	130	13	87	290	< 50
	•					
MW-3					1 000	
09-26-96	15,000	120	8.0	320	1,800	723
01-16-97	1,400	49	1.5	17	40	/< 5.0
04-07-97	300	12	0.64	4.3	5.1	5.8
07-15-97	330	9.3	< 0.5	4.1	1.6	12
10-20-97	190	9.7	0.64	5.1	2.0	< 5.0,/
~~~ ~		ς.				11.4
BH-F		1 100	450	600	3,000	620 duly this
04-01-98	< 2,500	1,100	450	690	3,000	620 dues this need to

Notes:

Non-detectable concentrations noted by the less than symbol (<) followed by the detection limit.

Detectable concentrations are in bold.

1728/2 110 pp

be topied further? (due by 8020)

15% -16

			,		Tie	r 2 Worksheet 9.1	
Total Products	RBCA SITE ASS	ompleted by: 11005.	t Kitay Scena 4/1998	MCL exposure limit?	Calculat	ion Option: 2	1 OF 1
Site Name: Thayer Food Products Site Location: Oakland, CA		Target Risk (Class Target Risk (C	A&B) 1.0E-5 (lass C) 1.0E-5	PEL exposure limit?			
SURFACE SOIL SSTI (< 3.3 FT BG	. VALUES	Target Hazard C	Duotient 1.0E+0 L Results For Complete Exp	osure Pathways ("x" If C	omplete) ion Construction X Worker	SSTL	Required CRF
	Representative Concentration		thing to Groundwater  mercial: Regulatory(MCL):	and Dermai Com	rcial. Commercial: (e) (on-site)	(mg/kg) *N* II yes   8.4E+2	Only If "yes" lef
CONSTITUENTS OF CONCERN	(mg/kg).	(on-site) (or	n-site) (on-site) NA NA	NA NA	8.4L+2 A >Res	>Res 0 2.4E+2 0	<u> </u>
71-43-2 Benzene 3 100-41-4 Ethylbenzene	6 E-1 1.4E+0 0.0E+0	1 INA	NA NA NA	NA N	A >Res	>Res 0 >Res 0	<1 <1
1634-04-4 Methyl t-Butyl Etner	3.2E-1 5.1E+0	NA NA	NA L	NA N	A >Res	tion value	1.054
108-88-3 Toldons 1330-20-7 Xylene (mixed Isomer	s)	>Res Ind	dicates risk-based target co	Software: GSI P	n constituent residual satura BCA Spreadsheet	Serial: G-477-BL	K-204

Software: GSI RBCA Spreadsheet Version: 1.0.1

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						T. 2005 88	Tier 2 Worksheet 9.2				
	RBCA SITE	ASSESSME	NT								1 OF 1
ite Name: Thayer Food Products	•	Completed B	y: Robert Kii ted: 4/14/19	18y 98 <u> </u>	Scena	rio Z		Cak	culation Option:	2	
Site Location: Oakland, CA		Target Risk	(Class A & B)	1.0E-5	MCL expo	sure limit?					
SUBSURFACE SOIL SSTL	VALUES	Yarget	Risk (Class C)	1.02-5	<u></u>						
(> 3.3 FT BGS)		Target H	azard Quotient SSTL R	esults For Comple	te Exposure Pa	thways ("x" if C		atilization to	Applicable	SSTL Exceeded?	Required CRF
•	Representative Concentration	Soil	Leaching to	Groundwater	X Ind	atilization to oor Air Commercial:	Out Residential:	door Air Commercial:	SSTL (mg/kg)	"n" If yes	Only if "yes left
CONSTITUENTS OF CONCERN		Residential:	Commercial: (on-site)	Regulatory(MCL): (on-site)		(on-site)	(on-site) NA	(on-site) NA	1.1E+0	0	<1
CAS No. Name 7.8	(mg/kg) 2.2E-1	NA	NA	NA NA	NA NA	1.1E+0 >Res	NA	NA	>Res_ 1.0E+3_	0	<1
71-43-2 Benzene 1.5 100-41-4 Ethylbenzene	1.4E+0	NA NA	NA NA	NA NA	NA	1.0E+3	NA NA	NA NA	1.3E+2	0	<1
1634-04-4 Methyl t-Butyl Ether	0.0E+0 3.2E-1	NA NA	NA_	NA	NA NA	1.3E+2 >Res	NA_	NA	>Res		<1<1
108-88-3 Toluene	5.1E+0	NA_	NA_	NA Isk-based target	I NA		constituent r	esidual satura	tion value		
1330-20-7 Xylene (mixed isomers)	1.78 ppn	>Res	Indicates r	lsk-based target	concentration	Softs	ware: GSI RB	CA Spreadsh	eet Serli	al: G-477-Bl	X-264

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	the state of the state of the state of	RBCA	SITE ASSI	ESSMENT		Contract		U Salah Salah		Tier 2 Wo	rksheet 9.3	15 m
Site Name: Thayer Food Products Site Location: Oakland, CA						cenari						1 OF (1)
G	ROUNDWATER SSTL VAL	talgot man former in a first				MCL exposure limit? Calculation Option: 2 PEL exposure limit?				2		
				SST	L Results For Con	piete Exposure i	Pathways ("x" If C	omplete)				
AANOTTI IEN	Representative Concentration CONSTITUENTS OF CONCERN			Groundwater Ingestion			Groundwater Volatilization X to Indoor Air		Groundwater Volatilization to Outdoor Air		SSTL Exceeded?	Required CRF
	Name (	(mg/L)	Residential; (on-site)		Regulatory(MCL): (on-site)	Residential: (on-site)	Commercial: (on-site)	Residential (on-site)	Commercial: (on-site)	(mg/L	'n' If yes	Only if "yes" left
	Benzene 2.7E-1	·	NA	NA	NA	NA	7.2E-1	NA	NA	7.2E-1	<u> </u>	<1
	Ethylbenzene	8.4E-2	NA	NA	NA	NA	>Sol	NA	NA	>Sol	0	<1
	Methyl t-Butyl Ether	4.0E-2	NA NA	NA	NA	NA	3.6E+3	NA	NA	3.6E+3	0	<1
	Toluene	3.1E-2	NA	NA	NA	NA	8.3E+1	NA	NA	8.3E+1	0	<1
	Xylene (mixed isomers)	3.9E-1	NA	NA	NA	NA	>Sol	NA	NA	>Sol	0	<1
				>Sol	indicates risk-bas	sed target conce	entration greater t	han constituent	solubility			

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Software: GSI RBCA Spreadsheet Version: 1.0.1

Serial: G-477-BLX-264

**RBCA SITE ASSESSMENT** Tier 2 Worksheet 9.3 Site Name: Thayer Food Products Completed By: Robert Kitay Site Location: Oakland, CA 1 OF 1 Date Completed: 4/14/1998 Target Risk (Class A & B) 1.0E-6 O MCL exposure limit? Calculation Option: 2 **GROUNDWATER SSTL VALUES** Target Risk (Class C) 1.0E-6 Groundwater DAF Option: Domenico - No Decay O PEL exposure limit? (Two-directional vert. dispersion) Target Hazard Quotient 1.0E+0 SSTL Results For Complete Exposure Pathways ("x" if Complete) Representative Concentration Groundwater Volatilization Groundwater Volatilization Applicable ssn CONSTITUENTS OF CONCERN Groundwater Ingestion to Indoor Air to Outdoor Air SSTL Exceeded? Required CRF Residential: Commercial: Regulatory(MCL): Residential: Commercial: Residential Commercial: CAS No. Name (mg/L)"N" If yes | Only if "yes" left 125 feet 125 feet (mg/L (on-site) (ente-no) (on-site) (on-site) (on-site) 71-43-2 Benzene 1.6E-1 7.0E+00 2.3E-2 NA NA NA NA 2.3E-2 NA NA n 1.1E-1 100-41-4 Ethylbenzene 2.8E+1 NA NA NA NA 2.8E+1 NA NA 0 <1

NA

NA

NA

>Sol indicates risk-based target concentration greater than constituent solubility

NA

NA

NA

NA

NA

NA

Software: GSI RBCA Spreadsheet

NA

NA

NA

NA

NA

NA

1.4E+0

5.7E+1

>Sol

Serial: G-477-BLX-264

0

0

0

<1

<1

<1

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1.4E+0

5.7E+1

>Sol

NA

NΑ

NΑ

5.8E-2

4.4E-2

5.1E-1

1634-04-4 Methyl t-Butyl Ether

1330-20-7 Xylene (mixed isomers)

108-88-3 Toluene

Version: 1.0.1

RBCA SITE ASSESSMENT Site Name: Thayer Food Products Tier 2 Worksheet 9.3 Completed By: Robert Kitay Site Location: Oakland, CA Scenario 4 Date Completed: 4/14/1998 1 OF 1 Target Risk (Class A & B) 1.0E-6 0 MCL exposure limit? **GROUNDWATER SSTL VALUES** Calculation Option: 2 Target Risk (Class C) 1.0E-6 O PEL exposure limit? Target Hazard Quotient 1,0E+0 (Two-directional vert. dispersion) SSTL Results For Complete Exposure Pathways ("x" if Complete) Representative Concentration CONSTITUENTS OF CONCERN Groundwater Volatilization Groundwater Volatilization Groundwater Ingestion Applicable SSTL to Indoor Air to Outdoor Air SSTL Exceeded ? CAS No. Residential: Commercial: Regulatory(MCL): (on-site) Required CRF Name Residential: Commercial. (mg/L) Residential Commercial: (on-site) (on-site) (on-site) 71-43-2 Benzene (on-site) (on-site) 2.1E-2 (on-site) (mg/L 'n' if yes Only if "yes" left NA NA NA 2,3E-2 NA 100-41-4 Ethylbenzene 1.7E+1 NA 2.3E-2 1.4E-2 <1 NA NA NA 7.5E+1 NA 1634-04-4 Methyl t-Butyl Ether >Sol NA 7.5E+1 7.5E-3 0 <1 NA NA NA 1.4E+3 NA 108-88-3 Toluene >Sol NA 1.4E+3 5.7E-3 0 <1 NA NA NA 3.2E+1 1330-20-7 Xylene (mixed isomers) NA >Sol NA 3.2E+1 6.5E-2 0 <1 NA NA NA >Sol NA >Sol NA >Sol 0 <1 >Sol indicates risk-based target concentration greater than constituent solubility

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Senal: G-477-BLX-264

Version: 1.0 1