UST Closure Action Report Zip Market & Gas Seattle, Washington

Prepared for:

Mr. Chong Nam Yi 10645 16th Ave SW Seattle, WA 98106

Prepared by

KEE, LLC PO Box 2532 Redmond, WA 98073 (206) 914-4989

January 10, 2007

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January 10, 2007

Clients: Mr. Chong Nam Yi 10645 16th Ave SW Seattle, WA 98106

Subject: UST Closure Action Report Zip Market & Gas 10645 16th Ave SW Seattle, WA 98106

KEE, LLC (a.k.a. Key Environmental) is pleased to submit a copy of our UST Closure Action Report for Zip Market & Gas property located at 10645 16th Ave SW, Seattle, WA 98106.

KEE, LLC, environmental consultant, was retained by Mr. Chong Nam Yi for the removal of 3 USTs, MPD islands, canopy and associated piping. The work was conducted in conformance with the Washington State Department of Ecology (DOE). The work was also conducted in accordance with the King County Department of Development and Environmental Services (KCDDES) permit which was obtained prior to initiating closure activities at the station. A copy of the KCDDES permit is provided in Appendix G. Representatives of the Belmar Properties and Plaid Pantries, Inc visited the site to observe activities in addition to DOE staffs and King County inspector.

The tank removal site soil samples taken were submitted to a state certified laboratory for chemical analysis. And based on the information developed in the course of our soil sampling, no contamination was noticed within the previously excavated tank cavity but the Northeast Corner beyond the tank excavation cavity of the station is possibly affected by the previous fueling activities and we recommend further investigation to verify the age and the extent of the contaminations.

We appreciate the opportunity to be of service to you. Please contact us with any comments or questions you have by calling 206-914-4989.

Yours very truly,

Kee-Hoon Pak President KEE, LLC

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by Key Environment and will serve as the official document of record.

UST Closure Action Report Zip Market & Gas 10645 16th Ave SW Seattle, WA 98106

Prepared for:

Mr. Chong Nam Yi 10645 16th Ave SW Seattle, WA 98106

Questions regarding this investigation, the conclusions reached and the recommendations given should be addressed to one of the following undersigned.

man

Kee Hoon Pak

President Registered Site Assessor ICC# 0874768-U7 KEE, LLC

Reference Job Number: ZM052306-3

January 10, 2007

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1 INTRODUCTION

This UST Closure Action Report (Closure Report) has been prepared for the property owner, Belmar Properties, and the business owner, Mr. Chong Nam Yi for the former Texaco Station, Zip Market & Gas, located at 10645 16th Ave SW, Seattle, King County, Washington (the station or site). The Closure Report was prepared by KEE, LLC, environmental consultant, retained by Mr. Chong Nam Yi to supervise the closure activities at the site. The work was conducted in conformance with the Washington State Department of Ecology (DOE). The work was also conducted in accordance with the King County Department of Development and Environmental Services (KCDDES) permit which was obtained prior to initiating closure activities at the station. A copy of the KCDDES permit is provided in Appendix G. A copy of the site-specific health and safety plan is also provided in Appendix D.

This report summarizes the removal method and soil sampling results associated with the closure of three underground storage tanks (USTs) and the associated multiple product dispenser (MPD) islands, product distribution and canopy. Two of the USTs contained regular unleaded gasoline (one 12,000-gallon UST and one 10,000-gallon UST) and one UST contained super unleaded gasoline fuel (12,000-gallon UST). All of the tanks and product distribution lines were of steel construction.

Figure 1 presents the location of Zip Market & Gas in Seattle, Washington with respect to the surrounding vicinity. Figure 2 is a site plan showing the specific location of the UST activities and soil sampling in the Zip Market Area evaluated during the UST Closure activities.

The station was closed in March 2006. Closure activities initiated May 2006 included:

- Removal of gasoline fuel from the USTs.
- Flushing of the associated piping.
- Removal of the MPDs.
- Removal of the MPD island canopy.
- Removal of the MPD islands.
- Removal of the USTs.
- Removal of the associated piping.

1.1 Closure Requirements

Our service was requested by Mr. Chong Nam Yi, as an effort to transact the business and our scope of service is based on the written agreement with the Mr. Yi of Zip Market & Gas. Washington State requires proper closure of regulated underground storage tank (UST) systems based on state UST regulations, chapter 173-360 WAC. This document has been prepared as a final closure report documenting the assessment associated Chapter 173-360 WAC.

1.2 Scope of Services

The scope of services for UST Closure Action include evaluating site conditions, closing the tank

Dry clay sandy soils with gravels on Alderwood gravely sandy loam that slopes 6 to 15 percent sand or silt over glaciolacustrine deposits from cataclysmic glacial outburst floods; most have low water-holding capacity.

3 DESCRIPTION OF ACTIVITIES

A description of the canopy demolition and UST closure procedures is presented below. A site plan showing the locations of the features discussed below is presented as Figure 2. Representative photographs are presented in Appendix. Additional details and/or deviations from the general procedures described below are presented, where applicable, in subsequent sections of this report.

3.1 Geophysical Survey

A geophysical survey was used to attempt to locate underground utilities mark-out including USTs and associated piping. Ground penetrating radar, utility locator equipment and a hand-held magnetometer were used to attempt to locate present underground utilities.

3.2 Tank Closure Activities

Initial mobilization tasks included the setup of work zones, support zones, material staging areas, soil erosion sediment controls, and traffic flow patterns for the site. Tank excavating contractor was Mark Heath Excavating and Dozing, LLC, in Enumelaw, Washington.

Tank Decommissioning Inspector was Ranee S. Tause from Tanks by Dallas, ICC #320532032969.

3.2.1 Product Management

Two MPDs were removed from the site and the associated MPD piping and product distribution lines were drained, flushed and subsequently capped and secured at the surface. The tank contained less than 2 inch of products and Emerald Services Inc. from Seattle, Washington, pumped the product and triple rinsed. Pump and Rinse Certification is provided in the Appendix F.

3.2.2 USTs and Associated Pipings

Prior to removal procedure to the tank, temporary fencing was installed around the station. The UST removal procedures are summarized below.

- Saw cut, break-up and remove the overlying concrete surface;
- Conduct FID screening of the sand backfill beneath the concrete surface:
- Label, cut into manageable sections and remove the piping located above the USTs;

- Clean and degas/inert the UST by marine chemist from Sound Testing, Inc. in Seattle, Washington;
- Remove additional soil surrounding the USTs using a hand shovel and excavator;
- Remove the USTs using a excavator and temporarily place it on the ground for inspection;
- Remove the USTs from the site on flatbed trucks;
- Conduct FID screening and soil sampling from the soils at the base and sidewalls
 of the UST excavation.

Detailed discussions of the field screening and soil sampling activities and results are presented in subsequent sections of this report. The USTs and associated piping were transported to an off-site treatment facility, Marine Vacuum Services Inc. (Mar-Vac) in Seattle, Washington. Certificate of Destruction is attached in Appendix E. Waste management activities are described in more detail in subsequent sections.

3.3 Canopy Demolition

All overhead electric utilities were checked and verified by the public utility companies. The MPD piping, product distribution lines, and vent lines removal procedures are summarized below.

- Saw cut, break-up and remove the overly concrete surface/asphalt paving and concrete island;
- Remove overlying pea gravel and soil using hand shovel to expose the piping;
- Visually inspect and conduct FID screening of the exposed piping and pea gravel;
- Cut into manageable sections and remove piping;
- Conduct FID screening and soil sampling from the soils beneath each MPDs.

Visual observations of the piping did not reveal any evidence of physical damage or holes. The canopy was demolished.

Detailed discussions of the field screening and soil sampling activities and results are presented in subsequent sections of this report. Waste management activities are described in more detail in subsequent sections.

3.4 Field Screening and Sampling Methods

3.4.1 Flame Ionization Detector Screening

A Flame Ionization Detector(FID) was employed to screen backfill sand and soil for the presence of total volatile organic compounds (VOCs). This screening was conducted using a PHOTOVAC MicroFID, which was calibrated each day prior to use. The FID uses purified hydrogen gas (99.999% pure) with a total VOC detection range of 0.1 to 50,000 ppm. The PID screening was employed to 1) identify locations which warrant the collection of additional soil samples beyond the samples that are required in Washington State Department of Ecology plan and 2) provide data to assist in fields decision-making with respect to boring exploration and/or remedial excavation activities. While the FID screening results provides real-time data for field decision-making, final decisions regarding the condition of soils at the site were made based on laboratory analytical data.

3.4.2 Sample Design

Tank closure sampling was designed to help confirm the presence/absence of environmental contaminants on boring and/or tank excavation site. Sampling locations were selected topographically and hydraulically to identify soil and/or groundwater contamination that may have occurred from past operation on the property (Figure 2).

Collection locations for soil samples from tank excavation site are listed in the following:

Sample ID	Soil sample Location
S1(Tank BT #1)	@bottom 16 feet under Tank #1
S2(Tank BT #2)	@bottom 16 feet under Tank #2
S3(Tank BT #3)	@bottom 16 feet under Tank #3
S4(NW-8)	@8 feet high on the north wall
S5(WW-8)	@8 feet high on the west wall
S6(EW-8)	@8 feet high on the east wall
S7(SW-8)	@8 feet high on the south wall
S8(S Isld)	@4 feet high under south side island
S9(N Isld)	@4 feet high under north side island
S10(Ex #1-4)	@4 feet high on the northeast corner
	••••

3.4.3 Soil Sampling Procedures

Soil samples for chemical analyses were collected during/after tank excavation activities for the

geotechnical investigation. Soil samples collected from beneath the MPD islands and UST excavation were collected using the excavator bucket,

Procedures for the collection of soil samples using the excavator bucket were as follows;

• Using the excavator bucket, collect soil from the base of the excavation or sidewall directly into the laboratory-supplied containers and plastic bags for FID screening.

Each sample container was labeled by the on-site engineer/site assessor with the sample designation, time and date of collection, and the sampler's initials. All samples collected were identified with a unique designation that appeared on the chain-of-custody form. The sample containers were placed on ice in an insulated cooler and maintained for all samples throughout collection, transport, and delivery. Samples were picked up by a laboratory courier for delivery within 24 hours to the laboratory, Friedman & Bruya, Inc., in Seattle, Washington. The laboratory was instructed to hold all soil samples until noticed by KEE, LLC for further analysis. Copies of the chain-of-custody forms for soil samples are included in the appropriate analytical report provided in Appendix.

One soil sample was collected from beneath each of the two MPDs (sample designations S Isld and N Isld). Three soil samples were collected from the base of UST excavation (sample designations Tank BT1 thru BT3). Four sidewall soil samples were collected from the UST excavation (sample designations NW, WW, EW, and SW). The locations of these soil samples are shown on Figure 2.

Soil samples selected for chemical analysis were analyzed for gasoline-range total petroleum hydrocarbons (NWTPH-gasoline) with BTEX. **Ten** soil samples submitted for analysis. Analytical reports are presented in Section 4.

3.4.4 Equipment Decontamination Procedures

The following procedures were followed for field equipment decontamination;

- Wash with a non-phosphate detergent solution;
- Rinse with distilled, analyte-free water;
- Pressure cleaned using heated potable water;
- Air dry; and
- Wrap equipment with aluminum foil until use:

3.4.5 Chemical Analysis

Analytical approach is intended to provide a basis for comparing the site environment to existing standard offered in the Model Toxics Control Act (MTCA), Chapter 173-340, Washington Administrative Code, and to recommended analyses offered in the April 1994 Underground Storage Tank Site Assessment, Washington State Department of Ecology. Analytical methods used were based on the standard method: NTTPH-Gas WDCE for TPH-Gasoline and including BTEX (benzene, toluene, ethylbenzene, and xylene) constituents.

ANALYTICAL RESULTS

4.1 Ground water

No groundwater noticed during the tank excavation activities possibly due to the geological location of the property.

4.2 Soil

The analytical result was summarized in **Table 3** and laboratory data was attached in the appendix. As shown in Table 3, there are no measurable amount of contaminations in soil samples (S1 thru S9) took from the tank excavation boundary. But at the northeast corner of the tank excavation where discolored and odorous soil was encountered, showed over Method A cleanup level of Washington State Model Toxics Control Act (MTCA). Therefore, the northeast corner of the tank excavation site area was affected with the contaminations and further characterization is warranted.

Ten of the samplings, identified as S1 thru S10, were completed in investigation area during the Tank Closure Investigation.

A copy of the Analytical Laboratory Report with chain-of-custody is provided in the Appendix.

OVEREXCAVATION ACTIVITIES

Based on post-removal soil sampling results described in Section 4.2, the following area required overexcavation to remove soils which exceeded Method A cleanup level of Washington State Model Toxics Control Act (MTCA):

Northeast Corner of UST Excavation.

KEE, LLC did not perform the overexcavation activities due to the disagreement of the responsible party of the contamination between the present or previous business owner. The property owner will pursue the remedial activities after the completion of Tank Closure Activities. Cavity soils re-used?

SITE RESTORATION

After the collection of the post-excavation soil samples, backfilling of the excavation was completed. The USTs cavity was backfilled to original grade using 300 tons of imported materials from the nearby construction site excluding 90 tons of 5/8" crushed rocks for the asphalt pavement. All the material are compacted every two feet (2') layer throughout the backfilling process up to average 95 % compaction ratio to minimize future settlement. All excavated, previously paved areas were resurfaced with asphalt. Compaction test report by AAR Testing Laboratory, Inc, was provided in Appendix H.



7 WASTE MANAGEMENT

Presented below is a description of the waste streams generated and waste disposal activities conducted during the site demolition and UST closure activities.

7.1 Waste Streams

The various waste streams generated during site demolition and UST closure activities are summarized below.

USTs and associated pipings

- Tank contents and rinseate from equipment draining/cleaning
- MPD island canopy;

Canopy

- General demolition debris
- Recyclable concrete
- Scrap metal

MPD Islands

- Recyclable concrete
- Scrap metal

7.2 Waste Disposal/Recycling

Presented below is a description of the waste material generated during the site demolition and UST closure activities and the name and location of the waste disposal/recycling facilities.

7.2.1 USTs and Associated Pipings

The USTs and associated piping were transported to an off-site treatment facility, Marine Vacuum Services Inc. (Mar-Vac) in Seattle, Washington. Certificate of Destruction is attached in Appendix.

7.2.2 General Demolition Debris

All general demolition debris generated during the site demolition and UST closure activities was taken off site to disposal to King County Solid Waster Transfer Station in South Seattle, Washington.

7.2.3 Recycloble Consums

All recyclable concrete generated during the site demolition and UST closure activities was

taken off site for recycling at Renton Concrete Recycle in Renton, Washington.

7.2.4 Scrap Metal

All scrap metal generated during the site demolition and UST closure activities was taken off site for recycling at Seattle Iron & Metal in Seattle, Washington.

8 CONCLUSIONS/RECOMMENDATIONS

KEE, LLC has completed a UST closure activities of the Zip Market & Gas property located at 10645 16th Ave SW, Seattle, King County Washington. The subject property consist of convenient store/gasoline service station and Teriyaki restaurant.

The station was closed in February 2006 and canopy demolition and UST closure activities were conducted during May 2006. The following features were removed and/or decommissioned:

- MPD island canopy;
- Support structures;
- USTs;
- MPD islands and associated lines.

Visual and olfactory observations, FID screening, soil analytical results were utilized to investigate site conditions. KEE, LLC collected ten soil samples during May 4 and May 5, 2006. The ten soil samples taken were submitted to a laboratory for chemical analysis.

Relying upon the information developed during the course of this UST closure activities, which included sampling of soil, and laboratory analysis of selected soil samples, it appears that:

- One of the soil samples showed over the Method A cleanup level published in the Model Toxics Control Act (MTCA), Chapter 173-340 WAC.
- Undisturbed(native) soil sample took from at the northeast corner of the tank excavation (refer to Figure 2) where discolored and odorous soil was encountered, showed over Method A cleanup level of Washington State Model Toxics Control Act (MTCA) clean up level. Therefore, the northeast corner of the tank excavation site area was affected with the contaminations and further characterization is warranted to verify the age and the extent of the contaminations. No contaminations found on the backfill materials around the tanks.

KEE, LLC did not perform the overexcavation activities due to the out of the scope of services and disagreement of the responsible party of the contamination between the present or previous business owners. The property owner will pursue the remedial activities after the completion of Tank Closure Activities.

9 REFERENCES

Key Engineering, Phase I & II Environmental Site Assessment Report, Prepared for the owner, Seattle, WA on December 15, 1999.

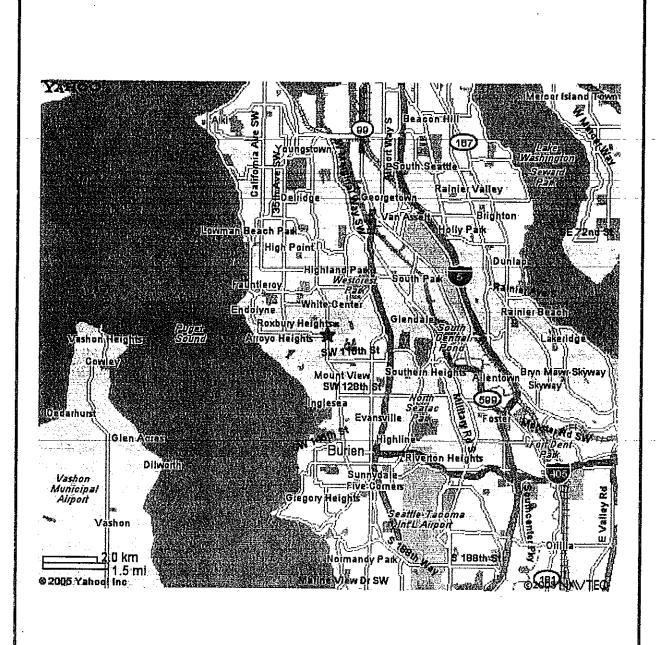
KEE, LLC, Limited Phase II Environmental Site Assessment Report, Prepared for the owner, Seattle, WA on December 23, 2005.

WA soil survey report, Soil Survey of King County Area. Washington, United States Department of Agriculture - Natural Resources Conservation Services.

Department of Ecology Well Logs

10 LIMITATIONS

This report has been prepared for the exclusive use of our customer and their representatives for specific application to this site. This report is UST Closure Investigation Report and does not provide a complete site characterization including detailed site geology and hydrology of the site. This Tank Closure Report does not delineate the vertical or horizontal extents of soil or groundwater contamination. The findings and conclusions of this study were based on observations and testing made at separated boring locations on the subject property. Conditions may very between the excavation site and at other locations on the site. If new information is developed in future site work which may include excavations, borings, studies, etc., KEE, LLC must be retained to reevaluate the conclusions of this report and to provide amendments as required.



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Figure 1

VICINITY MAP

Zip Market & Gas

January 10, 2007

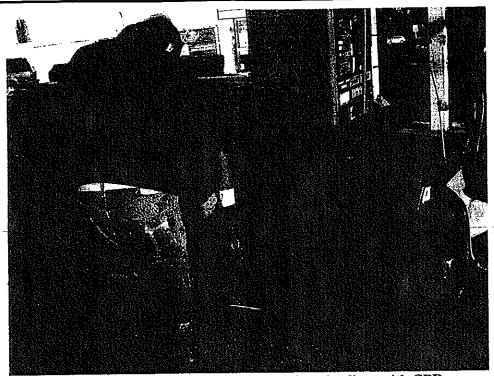


FIG 2: SITE PLAN

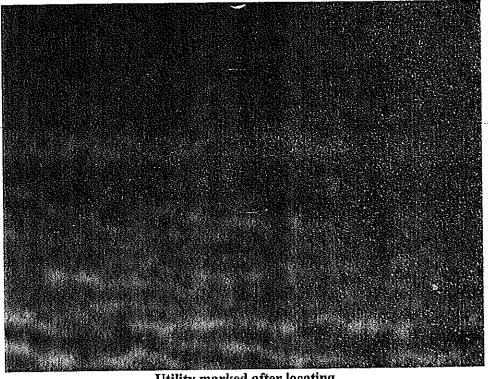
UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

	Table 1	Summary o	Summary of Soil Samples Collected For Analysis				
Field ID	Sampling Location	Media	Depth (feet)	Compounds of Concern	Analysis Method		
Tank BT #1	S 1	Soil	16	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
Tank BT #2	\$2	Soil	16	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
Tank BT #3	S3	Soil	16	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
NW	S4	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
WW	S5	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
EW	S6	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
sw	S7	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
S Isld	S8	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		
N Isld	S9	Soil	8	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B_		
Ex #1	S10	Soil	4	TPH-Gasoline, BTEX	NWTPH-Gx, 8021B		

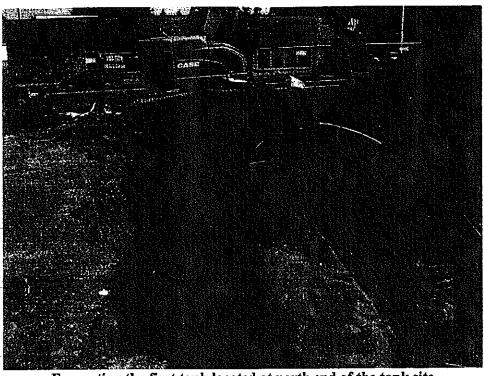
APPENDIX A: SITE PHOTOGRAPHS



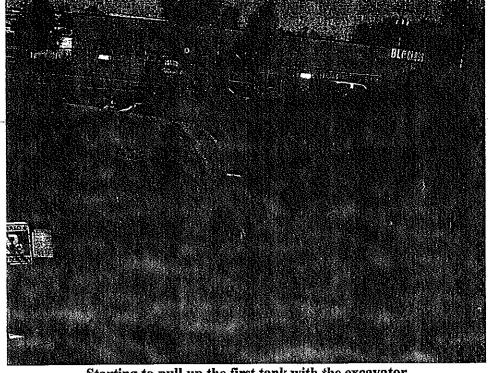
Checking underground utilities including pipe lines with GPR



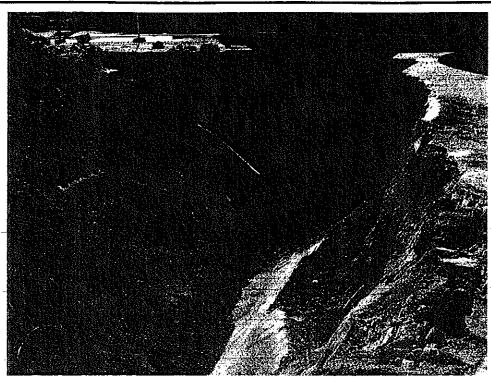
Utility marked after locating



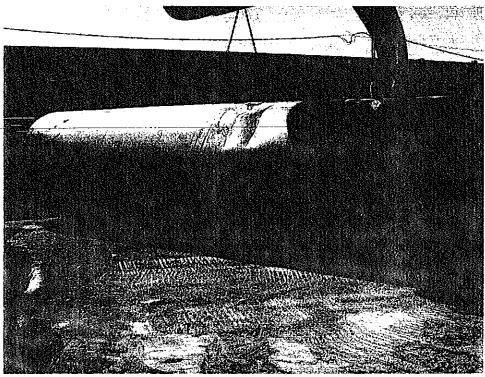
Excavating the first tank located at north end of the tank site



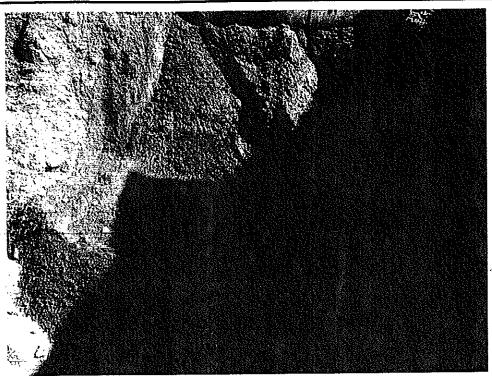
Starting to pull up the first tank with the excavator



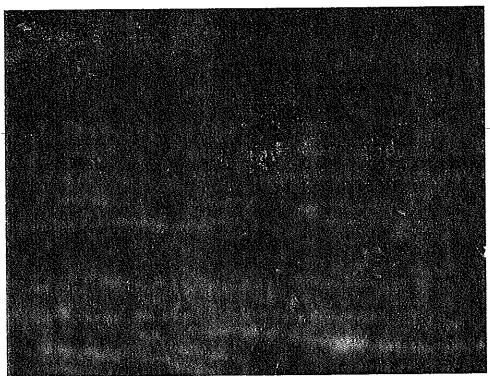
Showing the tank bottom after first tank pull



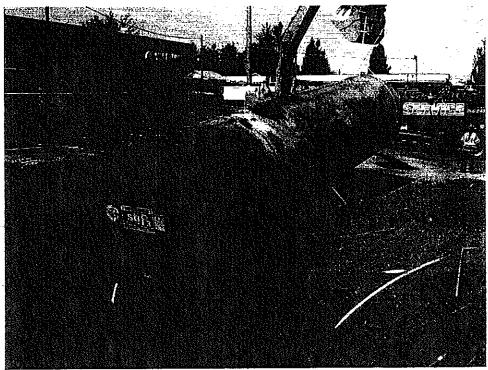
Staging the first tank on the asphalt pavement



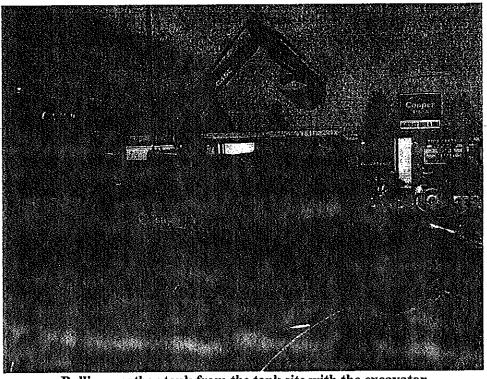
Taking the sample at north side wall of the tank site -



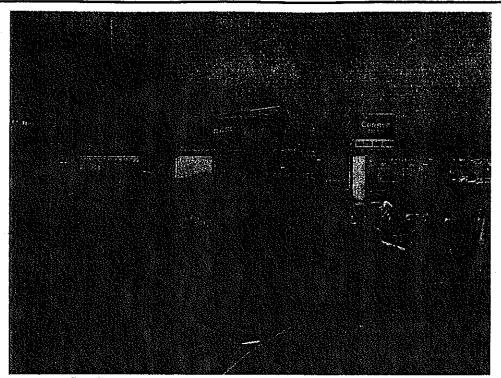
Showing the discolored area at the northeast corner of the tank site (sample S10)



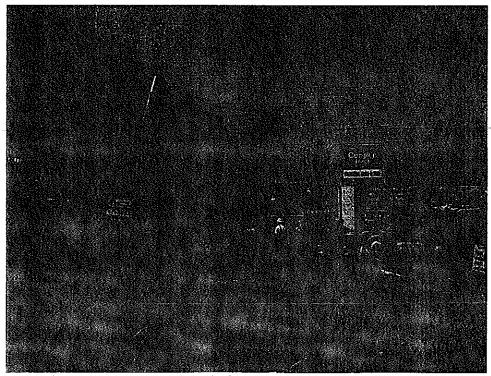
Pulling another tank from the tank site



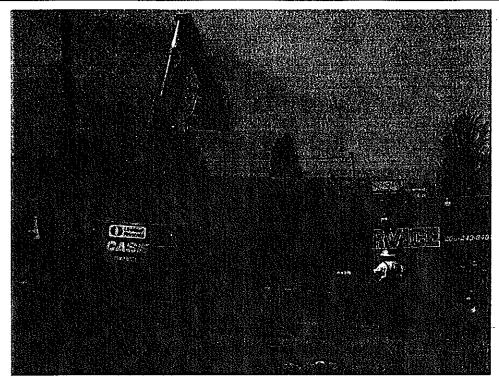
Pulling another tank from the tank site with the excavator



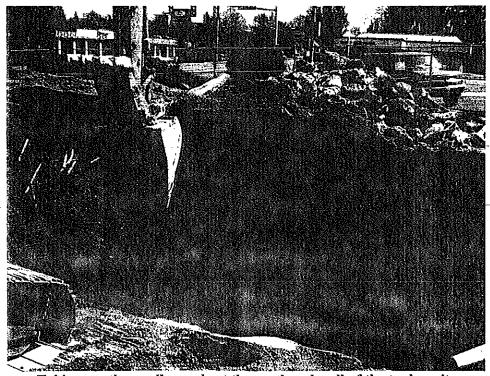
Staging the tank on the pavement before load to the truck-



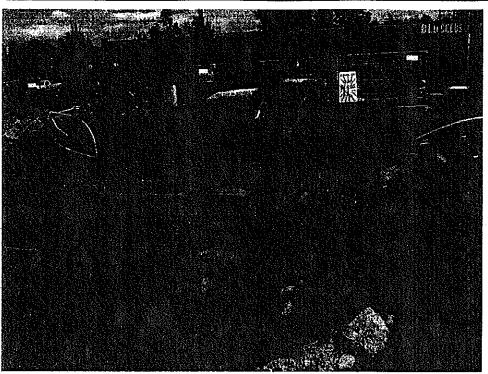
Loading the tank on the truck before heading to tank destruction facility



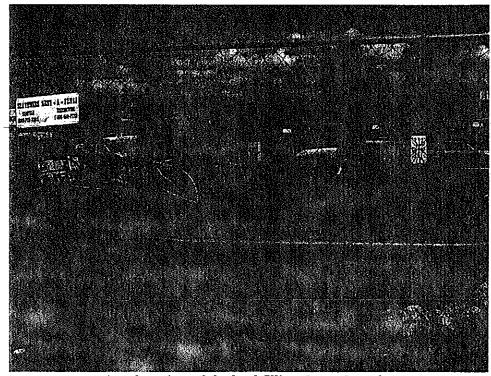
Close view of loading the tank on the truck



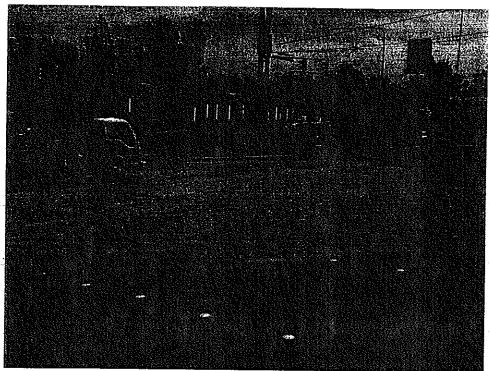
Taking another wall sample at the south end wall of the tank cavity



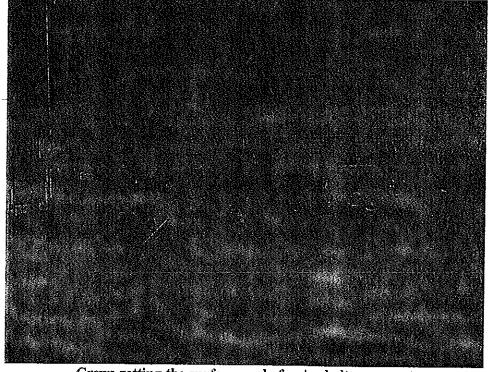
Backfilling the tank cavity with the imported materials—



Another view of the backfilling the tank cavity



Tank excavation site after backfilling was completed with 5/8" crush rock



Crews getting the surface ready for Asphalt pavement

APPENDIX B: LABORATORY REPORT

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 10, 2006

Kee-Hoon Pak, Project Manager Kee, LLC PO Box 2532 Redmond, WA 98073

Dear Mr. Pak:

Included are the results from the testing of material submitted on May 5, 2006 from the ZM050506-3, F&BI 605068 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Project/Manager

Enclosures KEY0010R

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/06 Date Received: 05/05/06

Project: ZM050506-3, F&BI 605068

Date Extracted: 05/08/06 Date Analyzed: 05/08/06

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as μg/g (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 69-150)
TANK BT2 (52)	<0.02	<0.02	< 0.02	<0.06	<2	105
TANK BT3 (57)	<0.02	<0.02	< 0.02	<0.06	<2	106
NW-8 (54)	<0.02	<0.02	< 0.02	<0.06	<2	102
WW-8 (55) 605068-04	<0.02	<0.02	< 0.02	<0.06	<2	106
EW-8 (56)	<0.02	<0.02	<0.02	<0.06	<2	105
SW-8 (57)	<0.02	<0.02	<0.02	<0.06	<2	101
S Isld (S &)	<0.02	<0.02	<0.02	<0.06	<2	102
N Isld (59)	<0.02	< 0.02	<0.02	<0.06	<2	104
Method Blank	<0.02	<0.02	< 0.02	<0.06	<2	103

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/06 Date Received: 05/05/06

Project: ZM050506-3, F&BI 605068

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 605068-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	μg/g (ppm)	< 0.02	< 0.02	nm
Toluene	μg/g (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	μg/g (ppm)	< 0.02	< 0.02	nm
Xylenes	μg/g-(ppm)	< 0.06	< 0.06	nm
Gasoline	$\mu g/g (ppm)$	<2	<2	nm

Laboratory Code: Laboratory Control Sample

			Percent	
Analyte	Reporting Units	Spike Level	Recovery LCS	Acceptance Criteria
Benzene	μg/g (ppm)	0.5	108	53-123
Toluene	μg/g (ppm)	0.5	114	62-124
Ethylbenzene	μg/g (ppm)	0.5	113	59-124
Xylenes	μg/g (ppm)	1.5	114	58-123
Gasoline	μg/g (ppm)	20	88	58-137

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 10, 2006

Kee-Hoon Pak, Project Manager Kee, LLC PO Box 2532 Redmond, WA 98073

Dear Mr. Pak:

Included are the results from the testing of material submitted on May 4, 2006 from the ZM050306-3, F&BI 605049 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

1 Toject Wramager

Enclosures KEY0510R

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/06 Date Received: 05/04/06

Project: ZM050306-3, F&BI 605049

Date Extracted: 05/05/06

Date Analyzed: 05/05/06 and 05/06/06

RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Results Reported on a Dry Weight Basis Results Reported as µg/g (ppm)

Sample ID Laboratory ID	Benzene	<u>Toluene</u>	Ethyl <u>Benzene</u>	Total <u>Xylenes</u>	Gasoline <u>Range</u>	Surrogate (% Recovery) (Limit 69-150)
EX1-4 d (5/0)	0.23	0.85	2.0	16	310	122
EX2-16 (51) G05049-02 TANK BT#1	<0.02	<0.02	<0.02	<0.06	<2	111
Method Blank	< 0.02	<0.02	< 0.02	<0.06	<2	103

d - The sample was diluted.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/10/06 Date Received: 05/04/06

Project: ZM050306-3, F&BI 605049

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE, XYLENES AND TPH AS GASOLINE USING EPA METHOD 8021B AND NWTPH-Gx

Laboratory Code: 605022-03 (Duplicate)

Analyte	Reporting · Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	μg/g (ppm)	< 0.02	< 0.02	nm
Toluene	μg/g (ppm)	< 0.02	< 0.02	nm
Ethylbenzene	μg/g (ppm)	< 0.02	< 0.02	nm
Xylenes	μg/g (ppm)	< 0.06	⁻ <0.06	nm
Gasoline	$\mu g/g (ppm)$	<2	<2	nm

Láboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	μg/g (ppm)	0.5	94	53-123
Toluene	μg/g (ppm)	0.5	96	62-124
Ethylbenzene	μg/g (ppm)	0.5	98	59-124
Xylenes	μg/g (ppm)	1.5	100	58-123
Gasoline	μg/g (ppm)	20	88	58-137

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

APPENDIX C: SAMPLE CHAIN OF CUSTODY

SAMPLE CHAIN OF CUSTODY

71.12

:

TIME TURNAROUND TIME Rush charges authorized by: U Return samples O Will call with instructions SAMPLE DISPOSAL Notes M Dispose after 30 days O Standard (2 Weeks) 30/5, DATE ANALYSES REQUESTED KEG, U.C. COMPANY PO# SJH SAOCs by 8270 VOCs by 8260 A Car ping アンガ BLEX by 8021B TPH-Gasoline PRINT NAME TPH-Diesel 4h 050506-3 九のかったい SAMPLERS (signgture) containers PROJECT NAME/NO. ‡ه¢ Ł Ŀ C Ŀ S J-Ŀ 9 16/eng Sample Type REMARKS Solis 5:52 5,75 <u>₹</u> 2:30 11:30 3:30 00:0 24:1 Phone # 226-914-4987 Pax # 435-836-0463 Time 3:30 3:20 City, State, ITP Redmond, WA 98073 SIGNATURE 2/4 Date 45 P D Send 1. port 1'0 Kee - Hoor Relinquished by: BEX 2532 Relinquished by: Lab ID KEE 170 Received by: Received by: BT 2 Friedman & Bruya, Inc. Seattle, WA 98119-2029 3012:16th Avenue West 0.0 Irld Sample ID IS/2 FORMS\COC\COCDOC Fax (206) 283-5044 Ph. (206) 285-8282 Mer-A A-MM Ew-B SW -B LENT TANK Address Company. \geq

OS/O4/OL TURNAROUND TIME Standard (2 Weeks) Gruph Standard (2 Weeks) Standard (3 Weeks)	JESTED Notes			1C 59 06 2:05
# 0	ANALYSES REQUESTED VOCs by 8270 HPS HPS			COMPANY KEE LL
SAMPLE CHAIN OF CUSTODY PLE SAMPLERS (signoture) PROJECT NAMENO. Zuno So 3 o 6 - 3 REMARKS Cul me with the result. Out 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Time Sample Type # of TPH-Diesel PPH-Gasoline PPH-Gasolin	8 Z B		Ke-How Pak
605047 Send Report To Lea I from Pak Company KEE LLC Address p.o. Box 2532 City, State, IIP Redmond WA 98073 Phone # (226) 914-4989 frax # (425) 831-0465	Lab ID Date	45 D. A. C.		SIGNATURE Relinquished by: Received by: Received by:
Send Report To Les Company KEE Address P.O. Box City, State, ZIP Redm Phone # (226) 914-49	Sample ID	1907 A		Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044

UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX D HEALTH AND SAFETY PLAN

ATTACHMENT D - HEALTH AND SAFETY PLAN

Project Name:

Zip Market & Gas

Project Location: 10645 16th Ave SW, Seattle, Washington

Project Number: ZM050306-2

SAFETY PERSONNEL:

Health and Safety Coordinator:

Project Manager:

Kee-Hoon Pak

Site Safety Coordinator:

EMERGENCY CONTACTS:

Hospital/Emergency Room: Harborview Medical Center

(206) 731-3000

Fire:

Police:

Poison Control Center:

(206)526-2121

Department of Ecology Spill Response:

(425) 649-7130

Washington State Patrol:

911

Site Telephone Number: Hi-Tech Cleaners

(425) 637-8963

KEE, LLC

Health and Safety Coordinator:

(206) 914-4989

Site Safety Coordinator (SSC), Project Manager and Health and Safety Coordinator (HSC) are to be notified immediately if worker exposure, accidents or site conditions not anticipated in this document are encountered. In case of hazard exposure during and/or prior to a medical situation, the hospital and any emergency response personnel are shall be notified that patient's clothing may be contaminated.

ACTION LEVELS:-

Upgrade PPE Level to Level C:

10 ppm or greater measured on OVM in breathing

zone

Stop all work and exit work area:

100 ppm or greater measured on OVM or;

20% of LEL in work area or;

 $O_2 < 19.5\%$;

or $O_2 > 23.5\%$

Project Number: HC032702 Page 2

I. General Information

A. Project Description

KEE, LLC personnel will document soil sampling.

As part of the soil removal activity, KEE, LLC personnel will collect soil samples from the impacted soils and from adjacent clean soil to determine when cleanup has been achieved.

B. Site History

KEE, LLC performed Limited Phase II assessment to help the business transaction. The gas station is closing by the business owner.

II. Site Safety Personnel

Ms. Eun Y. Pak coordinates health and safety planning for projects in the Sammamish office with potential hazardous material exposure. Primarily the duties of the Health and Safety Coordinator entail coordination with project managers and Site Safety Coordinator for preparation of site health and safety plans, assessment of chemical hazards and selection of safety/monitoring equipment necessary for each project.

The project manager has overall responsibility for project operations, and as such is responsible for providing a safe work environment. This involves coordinating preparation of a site health and safety plan with Health and Safety Coordinator and providing necessary conditions for implementation of the site health and safety plan.

The Site Safety Coordinator (SSC) has the responsibility of implementing the site health and safety plan while at the site. The SSC will be involved with the Health and Safety Coordinator and project manager in preparation of the site health and safety plan. If the plan is not being implemented or if unanticipated situations arise, the SSC may stop all proceedings and see that all personnel depart the site. The SSC will have charge of all instruments and see to their proper use and function.

III. Emergency Procedures

In all emergencies, document action taken and notify Health and Safety Coordinator, project manager, SSC and client officials of occurrence of an emergency and actions taken.

A. Hazard Exposures

Project Number: HC032702

Page 3

Skin-remove contaminated clothing immediately; wash with soap and water.

<u>Inhalation</u>-remove to fresh air. Where necessary, call emergency medical help (ambulance, hospital, police) and follow medical emergency help procedures.

Eye Contact-flush with eye wash or water at least 15 minutes. Follow emergency medical help procedures, if indicated. Contaminants may be absorbed through the eyes.

Ingestion-obtain medical help if indicated.

<u>Injuries</u>-administer first aid if necessary. Follow emergency medical procedures below, if necessary. Medical emergencies take precedence over decontamination.

B. Emergency Medical Help Procedures
If necessary, call hospital Harborview Medical Center (206) 731-3000

Hospital Address: 325 Ninth Avenue / Seattle, WA

If the injury is life threatening, follow steps 1 through 8 below. If the injury is not life threatening, perform necessary first aid and consider the need for decontamination prior to transport.

- 1. Perform first aid necessary to determine victim(s) medical status;
- 2. Call emergency transport;
- 3. Give specific directions to location of emergency;
- 4. Give phone from which you are calling;
- 5. Tell emergency services what happened. Inform that victim(s) may be wearing contaminated clothing;
- 6. Inform emergency services how many persons need help;
- 7. Inform emergency services what is being done for the victim(s);
- 8. Stay on telephone until told to hang-up;

Transport to hospital, if possible.

C. Fire/Explosion

Use hand extinguisher if appropriate and safety permits. Call fire department, if appropriate. Evacuate to upwind location if fire cannot be controlled with a fire extinguisher.

- D. Accidental Spill/Release
 - 1. Pick up, isolate, or contain spill;

VER 1.0

Project Number: HC032702

Page 4

- 2. Evacuate area, if necessary;
- 3. Contact emergency agencies, if necessary.

E. Unanticipated Conditions

- 1. Suspend all non-emergency activities;
- 2. Notify Health and Safety Coordinator and project manager immediately. Do not restart planned operations in the area until authorized by the Health and Safety Coordinator and project manager;
- 3. If the unanticipated condition(s) is the presence of unidentifiable non-hydrocarbon related contaminants, site conditions, required protective equipment level and action levels will have to be reevaluated by the Health and Safety Coordinator, project manager and Site Safety Coordinator prior to restarting planned operations.

IV. Hazard Assessment

KEE, LLC anticipates, based upon the past history of the site and upon the types of activities to be performed, to encounter the following types of hazards:

- Chemical
- Physical
- Construction

Based upon KEE, LLC's preliminary assessment, the proper personal protective equipment (PPE) to be employed at this site was determined to be Level D protection with the capability to upgrade to Level C protection where site conditions warrant. This is based on KEE, LLC personnel performing the following tasks:

- Construction observation of contractor activities; and
- Collection of soil samples following removal of petroleum impacted soils.

Any change in KEE, LLC personnel tasks at the site will require a review of the health risks to personnel at the site. The SSO and HSC will jointly review personnel health risks and modify the health and safety plan as needed.

A. Chemical

Chemical hazards expected to be encountered include Tetrachloroethylene or Perchloroethylene. Chemical hazard information is shown in the attached table.

Project Number: HC032702

Page 5

The OSHA (WISHA) permissible Exposure Limit (PEL) has been established at 0.5 ppm for Benzene. The nature of this project precludes continuous exposure to any potential contaminant. Therefore, the action level has been set at 0.5 ppm to prevent exposure above the 8-hour TWA PEL for Benzene.

B. Physical

The physical hazards which are expected to be encountered during the soil removal activities include noise, manual lifting, heavy equipment operation, weather related hazards (rain, snow, wind) and rough terrain. Hearing protection and steel-toed rubber boots will be required for all personnel working in the vicinity of heavy equipment.

These hazards will be mitigated by using safe work practices at all times. The Site Safety Coordinator (SSC) has total responsibility for ensuring that all personnel on-site perform work tasks in a safe and sensible manner. As KEE, LLC personnel are not typically experienced heavy equipment operators, the safe operation of heavy equipment will be the responsibility of the subcontractor and the equipment operator. If at any time the SSC determines that safe work practices are not followed, the tasks will be suspended and corrective actions will be taken.

In addition to the physical hazards associated with heavy equipment, the potential for ignition of concentrations of combustible vapors must be guarded against. This will be accomplished by allowing the combustible gas meter to run on a continuous basis with the alarm level set at 20% of the lower explosive limit (LEL) calibrated to methane gas.

SMOKING WILL NOT BE ALLOWED ANYWHERE ON THE SITE PROPERTY.

Project Number: 11-Page 6

Section Council and

200

100000

Project Name: Zip Market & Gas

200 M To 100 M

**; **:

[
CHRONIC HEALTH DEFECTS	Eye, skin respiratory system irritation, possible liver, kidneys, central nervous system damage
ACUTE HERECTS HEATENES	Intoxication, headaches, irritation to eyes, nose and throat, dizziness, and nausea, skin irritation, liver damage
EXPOSURE ROUIES	Inhalation Dermal
	Niosh 0.1 ppm TWA 1 ppm STEL
PELTEN	1 ppm (8-hour TWA) 20 ppm (ceiling) 50 ppm (5-min max peak in any 3 hours)
CHEMICAL	Benzene

*OSHA Permissible Exposure Limit Threshold Limit Value

C. Construction

Construction hazards will be mitigated, as all work will be performed in general accordance with WAC 296-155.

VI. Monitoring Plan

EXPLOSIVE ATMOSPHERE	EXPL	OSIVE	ATMO	SPHER	æ
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Monitoring Method	Reading	Action
Combustible Gas Meter	<10% LEL	Continue Investigation
	10% - 20% LEL	Continue onsite monitoring with extreme caution
·	>20% LEL	Explosion hazard. Withdraw from the area. Reenter only after source is identified and controlled -

Readings are sustained over at least a minute during and are taken downwind. Background readings obtained 50 feet upwind of site activity.

Oxygen analyzer	<19.5%	Do not enter without SCBA. NOTE: CGI readings are not valid in atmospheres with <19.5% oxygen.
<u>-</u>	19.5%-23.5%	Continue investigation. Deviation from normal maybe due to presence of other substances.
	>23.5%	Fire hazard: Discontinue investigation.

ORGANIC VAPORS

PID or FID	0-10 ppm	Continue	investigation	ı in
	•	Modified	Level D	with
		continuous	monitoring	with
		instrument	••	

Project Name: Zip Market & Gas

Date: <u>5-3-2006</u>

10 - 100 ppm

Upgrade to Level C wearing an air-purifying respirator with organic vapor cartridges or organic vapor/acid gases cartridges

>100 ppm

Discontinue investigation.
Resume operation when concentration returns to acceptable levels.

VII. Personal Protection Level

The Site Safety Coordinator (SSC) is responsible for ensuring the health, safety, and efficiency of the project team. The level of personal protection necessary for the health and safety of the project team will be determined by the SSC based upon the above action plan and any overt signs of hazards to life and health.

Any team member can seek to upgrade the level of protection established by the SSC. This will be accomplished through consultation with KEE, LLC's SSC, and an agreement will be reached before the team member enters the work area. UNDER NO CIRCUMSTANCES will any team member downgrade the level of personal protection selected by the SSC. The level of protection selected for this site is Level D with the capability of upgrading to Level C. Neither of these levels of protection is adequate for confined space entry. UNDER NO CIRCUMSTANCES shall any of the team members enter a confined space.

- A. Modified Level D consists of steel-toed, chemical resistant rubber boots, gloves of latex/vinyl or equivalent, hard hat, safety glasses, Tyvek coveralls. WEARING OF TYVEK WILL BE DISCRETIONARY BASED ON CIRCUMSTANCES AND SSC'S DIRECTION.
- B. Level C consists of Level D plus a half-face air-purifying respirator equipped with organic vapor and high efficiency particulate cartridges. <u>UNDER LEVEL C.</u> <u>WEARING OF TYVEK IS MANDATORY.</u>

VIII. Site Control

A. Work areas will be established as follows:

A hotline will be established 10 feet from excavation edges and around the perimeter of soil stockpiles. This area should be marked with tape where practicable. The area inside this line will be considered the exclusion zone.

Project Name: Zip Market & Gas

Date: <u>5-3-2006</u>

B. Personnel decontamination will take place prior to entering the field office or other field office and will consist of:

1. A wash tub (or equivalent) will be filled with potable water and detergent (TSP). Persons entering the field office will step into the detergent solution and scrub loose soil from boots. Gloves will be discarded between sampling events. Upon completion of scrubbing, personnel will step into a similar tub filled with clean potable water and rinse boots.

NOTE: Step 2 will be done only if Tyvek is worn.

2. Personnel will then remove the Tyvek coveralls which will be discarded into a drum located adjacent to the field office

IX. Monitoring Plan

Personal monitoring will be done at the discretion of the SSC. In lieu of personal monitoring, the direct reading instruments listed under the action plan will be used.

All readings obtained with the FID or PID would be recorded in a log book maintained by the SSC.

X. Site Security

Flagging/colored chalk will be used to delineate the exclusion zone from the CRZ.

No unauthorized persons will be allowed in the exclusion zone - unauthorized persons are those without appropriate training, without proof of medical surveillance, and those with no business on the site.

XI. Training

Certificates of successful completion of a 40-hour training course will be maintained at the offices and will be produced for perusal by regulatory authorities upon request. All personnel should carry 40-hour training cards. At least one of the team members present on-site will also have a certificate of completion for 8-hour first aid and CPR training.

XII, Medical Surveillance

Evidence of a current physical examination in the form of a letter from an examining physician will be maintained at the offices and will be available to regulatory personnel upon request.

Project Name: Zip Market & Gas

Date: <u>5-3-2006</u>

XIII. Acknowledgement Form

The content of the plan will be discussed in detail at the start of the project with all site personnel during a safety meeting held at the site. The SSC shall document attendance at this meeting and content of the meeting. All site personnel will be expected to sign an acknowledgement form. If other contractors have a separate safety plan, a copy of that plan must be given to the SSC at this meeting.



UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX E UST CERTIFICATE OF DESTRUCTION

Marine Vacuum Service, Inc.

A WASHINGTON ENVIRONMENTAL COMPANY
MARINE AND INDUSTRIAL CLEANING
TANK REMOVAL

P.O. Box 24263 Seattle, Washington 98124
Telephone (206) 762-0240
FAX (206) 763-8084
1-800-540-7491

STORAGE TANK

CERTIFICATE OF DESTRUCTION

DATE: May 03, 2006

ATTN: Kee Hoon Pak 1845 218th Pl NE Sammamish, WA 98074

TANK OWNER: TEXACO ZIP MARKET

TANK LOCATION: 10645 16th Ave SW

TANK DESCRIPTION: (2) 12,000 Gallon UST, (1) 10,000 Gallon UST

LAST CONTENTS HELD IN TANKS: Gas

Marine Vacuum Service, Inc certifies that the tank mentioned above has been pumped of all liquid materials and has been washed, with a high-pressure washer and soap solution and is clean. The tank and contents therein have been disposed of according to all Local, State and Federal Regulations.

Thank you,

Thomas Wofford Project Coordinator

UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX F PUMP AND RINSE CERTIFICATION

UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX G KING COUNTY DDES PERMIT



9010 E. Marginal Way S. Suite 200 Seattle, WA 98108 (206) 832-3000 Fax: (206) 832-3030

PUMPANDRINSE CERTIFICATION

* *	· '08
DATE: 4-21 - 06	
TO WHOM IT MAY CONCERN:	
This letter is to certify that tank(s), size(s)	
(1)12000(2) 10000(3) 12,000	
-	
have been pumped and rinsed for removal.	
Work was performed at:	
	en de la companya de La companya de la co
Seattle wa	
"Seattle wg	
" For:	
Kee Exvironmental	
W See See See See See See See See See Se	
Please note that this letter does not certify that the above tank(s) should be considered gas-free.	have been cleaned for disposal or that it (they)
-	
Sincerely,	
- Emerald Services, Inc.	`,





Department of Development and Environmental Services 900 Oakesdale Avenue Southwest Renton, Washington 98055-1219

Applicant: KEE HOON PAK KEE LLC

Application Number: B06F0250

Application Date: 05/09/2006

Permit Conditions

The conditions attached to this cover sheet apply to the permit referenced here. All conditions must be complied with by the contractor and verified by a Building inspector or this permit will become null and void.

Location:FD #11

Permit Type:FIREPERM, TANK

Title: CONTR: MARK HEATH EXCAVATING

Description:install 3 flammable combustible commercial underground tanks

Valuation: \$0.00

Site Address:10641 16TH AVE SW KC

Reviewed By:

Structure:	
Ordinance:	
Fire:	
Mechanical:	
Other:	A SOL

Permit Approval Conditions Document Fire Systems Review Tracking Number: B06F0250

THIS PERMIT IS FOR THE REMOVED OF 3 UNDERGROUND TANKS

The following conditions apply to the above referenced permit:

AA03 HIGGINS

Any questions regarding the fire review of this plan should be directed to: H. Leo Higgins, Fire Engineer Telephone: (206) 296-6757.

<u>AB01</u> CONDITION INFORMATION

- 1. CONDITION SHEETS: The listing of permit conditions applied to this permit are requirements for or construction installation.
- FIELD CHANGES TO APPROVED PLANS: After plans are issued and approved, only
 minor changes, modifications or field revisions may be made to these plans.
 THE FIELD INSPECTOR HAS THE LATITUDE OF ALLOWING MINOR
 CHANGES, BUT NOT MAJOR CHANGES.
- 3. INSPECTION REQUIRED: A final inspection is required for approval of this permit. To arrange for an inspection call the DDES Voice Inspection Line at: 1-888-546-7728.

The King County Department of Development and Environmental Services [DDES] has installed an Interactive Voice Response System [IVR]. This system allows customers to schedule inspections 24 hours per day, 7 days per week.

The DDES Voice Inspection System Line allows customers to:

- Schedule inspections
- Cancel inspections
- Retrieve inspection results

Call: 1-888-5-INSPCT [1-888-546-7728] to access the inspection line. The DDES Voice Inspection Line will prompt you each step of the way. You may perform multiple transactions during the call. At the end of the call you will be issued a confirmation number. We recommend you keep a record of your confirmation number[s] and associated transaction[s] for future reference.

AB02 CONDITIONAL APPROVAL OF PLANS

The approval of these plans and issuance of a permit is based on a review of the documents submitted by the applicant and those documents being representative of actual configuration, use, anticipated construction/existing construction and/or installation of equipment and/or devices. Errors or omissions in submitted documents does not constitute approval of any condition relating to those errors or omissions.

APPROVAL OF PLANS DOES NOT CONDONE OR AUTHORIZE ANY VIOLATION OF ANY KING COUNTY CODE/ORDINANCE/REGULATION.

AB03 COPYING OF APPROVED PLANS

Fire Systems Review Approval Conditions
Document1

Last saved by February 18, 1999 If approved plans are copied for use as JOB SITE COPIES, such plans ARE NOT ACCEPTABLE WITHOUT ALL CONDITION SHEETS (PLAN REVIEW REQUIREMENTS) BEING ATTACHED TO THE COPIED PLANS. ATTACHED REQUIREMENTS (CONDITION SHEETS) ARE PART OF THE APPROVED SET OF PLANS.

TR01 ON SITE INSPECTOR REQUIRED FOR TANK REMOVAL NO TANK(S) SHALL BE REMOVED WITHOUT HAVING A FIRE INSPECTOR FROM THE KING COUNTY FIRE MARSHAL'S OFFICE ON SITE. Preliminary tank removal operations may be conducted, but no tank shall be removed from the ground without specific approval of the on site fire inspector. To arrange for an inspector, see Condition Item AB01 (3)

TR05 REMOVAL OF UNDERGROUND TANKS

The removal of underground tanks shall be in accordance with all requirements listed in the "REMOVAL OF UNDERGROUND TANKS CODE EXCERPTS SHEET" attached to approved plans.

NOTE: Vapor concentration testing is required on ALL tanks INCLUDING residential-type oil tanks.



King County Department of Development and Environmental Services

900 Oakeadale Avenue Southwest Renion, WA 98055-1219

REMOVAL OF COMMERCIAL-TYPE UNDERGROUND TANKS Ref. 1997 Edition Uniform Fire Code Sec. 7902.1.7.4

The following are excerps from codes/ordinances relating to the removal of <u>commercial-type</u> underground flammable or combustible liquid tanks.

A. SAFETY RULES FOR TANK REMOVAL:

- 1. Barricade off a 20 foot "SAFE ZONE" around the area of the tank.
- 2. Maintain two 20 BC rated portable fire extinguishers on site.
- 3. Do not release any flammable/combustible liquids into ground.
- 4. If flammable/combustible liquids are found in the soil during removal operations, it is the responsibility of the <u>property owner or his/her agent</u> to take such action as necessary to eliminate contamination of the site. (WAC 173-360-325)

B. REMOVAL OF LIQUID FROM THE TANK: (expose top of tank)

- 1. Open all valves and product lines to allow liquid to drain back into tank.
- 2. Disconnect all product lines and vapor recovery lines. Leave the vent line in place or provide a temporary vent if vent was tied to vapor recovery.
- 3. If tank is equipped with submerged turbine pump and riser, remove same.
- 4. Leave fill riser and drop tube in place and cap or plug all other tank openings.
- 5. Remove all liquid from the tank, using a hand pump if necessary, to extract the bottom few inches.

C. <u>REMOVAL OF VAPORS FROM TANK:</u>

- 1. Carbon dioxide shall be used to render vapors inert. Use a carbon dioxide cylinder equipped with a pressure regulator.
- 2. Remove fill riser and drop tube and plug opening. Remove a plug from the OPPOSITE end of the tank from the vent pipe.
- 3. Introduce CO2 into the tank through this opening at a rate of 40 psi. The CO2 hose should extend to the bottom of the tank.
- 4. Vapor concentrations shall be checked periodically with a combustible gas meter. Readings of 20% less of LEL (Lower Explosive Limit) must be obtained in the tank and at the vent riser before the tank is considered to be gas free.
- 5. After tank is gas free, distribute 1.5 pounds of dry ice per 100 gallons tank capacity throughout the length of the tank.

D. REMOVAL OF TANK FROM GROUND:

- 1. Plug and cap all tank openings. Use screwed (boiler) plugs to plug any corrosion leak holes.
- 2. Make sure that one plug in the tank has a ½ inch size vent hole open to atmosphere to prevent pressure buildup.
- 3. Remove tank from the site as promptly as possible after purging operations have been completed.
- 4. If tank must remain on site overnight, secure in place and barricade around tank.

 Vapor may be released from scale and sediment in the tank and vapor testing must be done to insure a gas free vessel. If testing indicates vapors are present repeat vapor removal operations again.
- 5. When transporting the tank, make sure that the plug having the ½ inch vent hole is positioned at the uppermost part of the tank.

E. BACKFILLING THE HOLE:

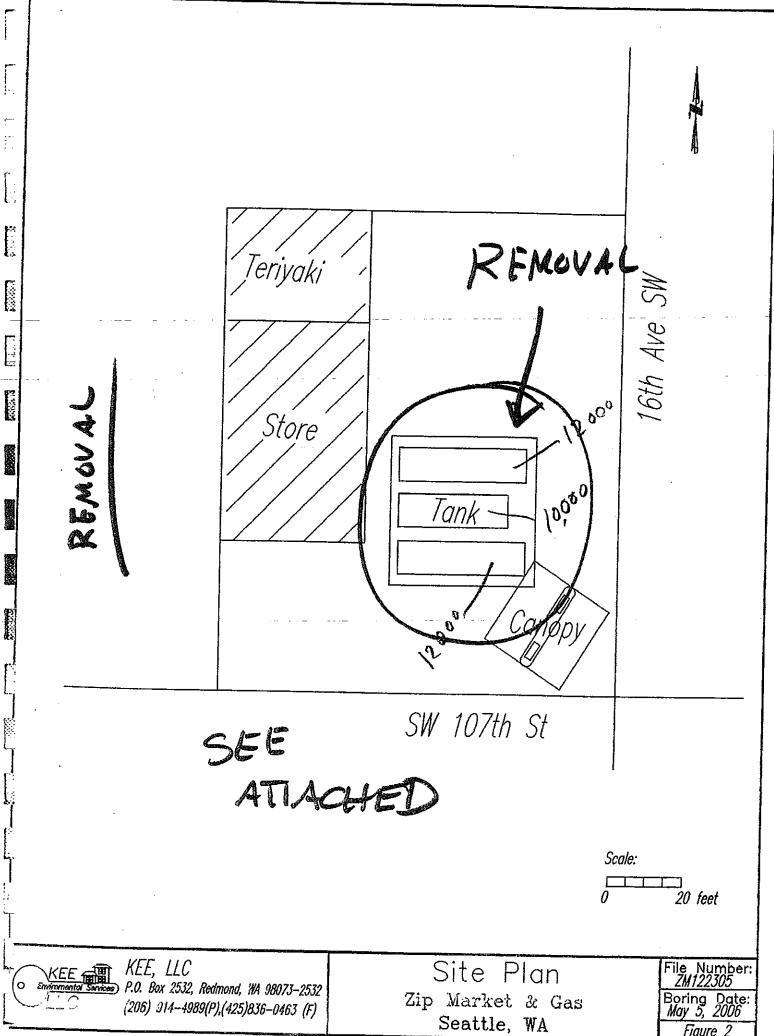
When a new tank is not being placed into the same hole, fill the tank hole in the following manner:

- 1. Backfill with clean material free of any organic matter.
- 2. Fill should be equal to or better than surrounding native soil.
- 3. Backfill in layers of 6 inches at a time while machine compacting to density of surrounding native soil.

F. WASHINGTON STATE LICENSED CONTRACTOR:

A permit for removal of an underground flammable/combustible liquid tank shall only be issued to an individual/firm holding a Washington State contractor's license and who has the knowledge, expertise and equipment for handling commercial-type flammable/combustible liquid tanks.

*NOTE: IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR HIS/HER AGENT TO REPORT ANY EVIDENCE OF TANK LEAKAGE AND TO TAKE SUCH STEPS AS REQUIRED TO ELIMINATE ANY CONTAMINATION OF SOIL. (WAC 173-360-325)

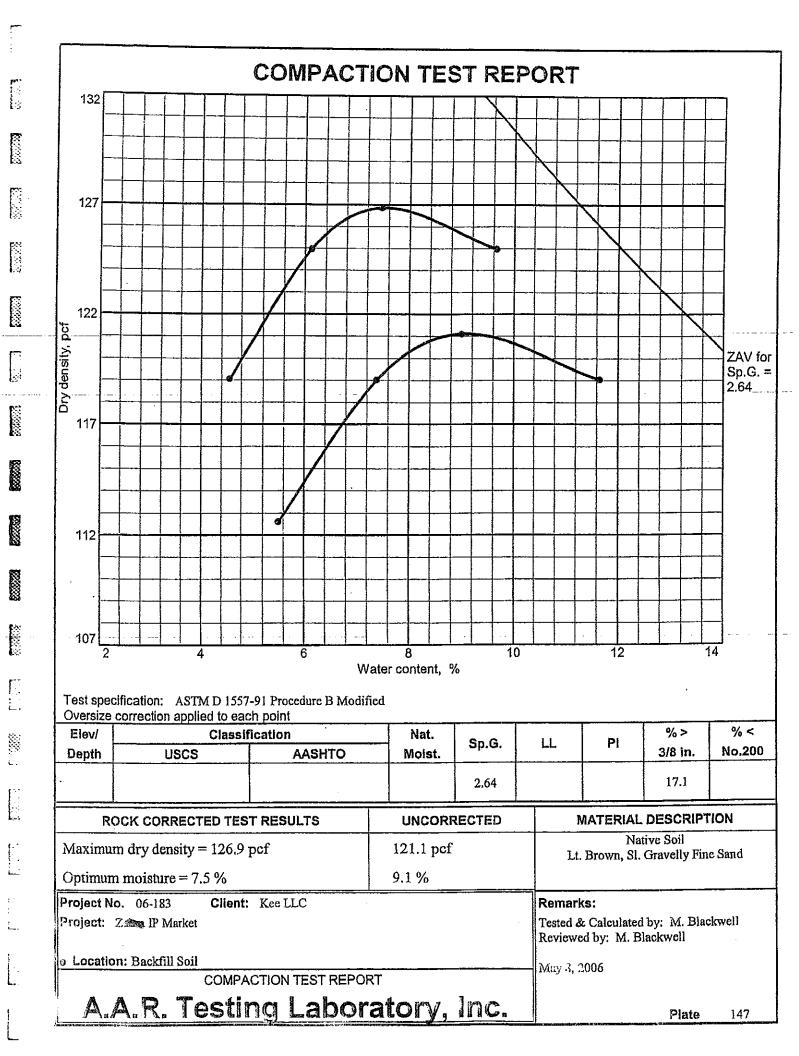


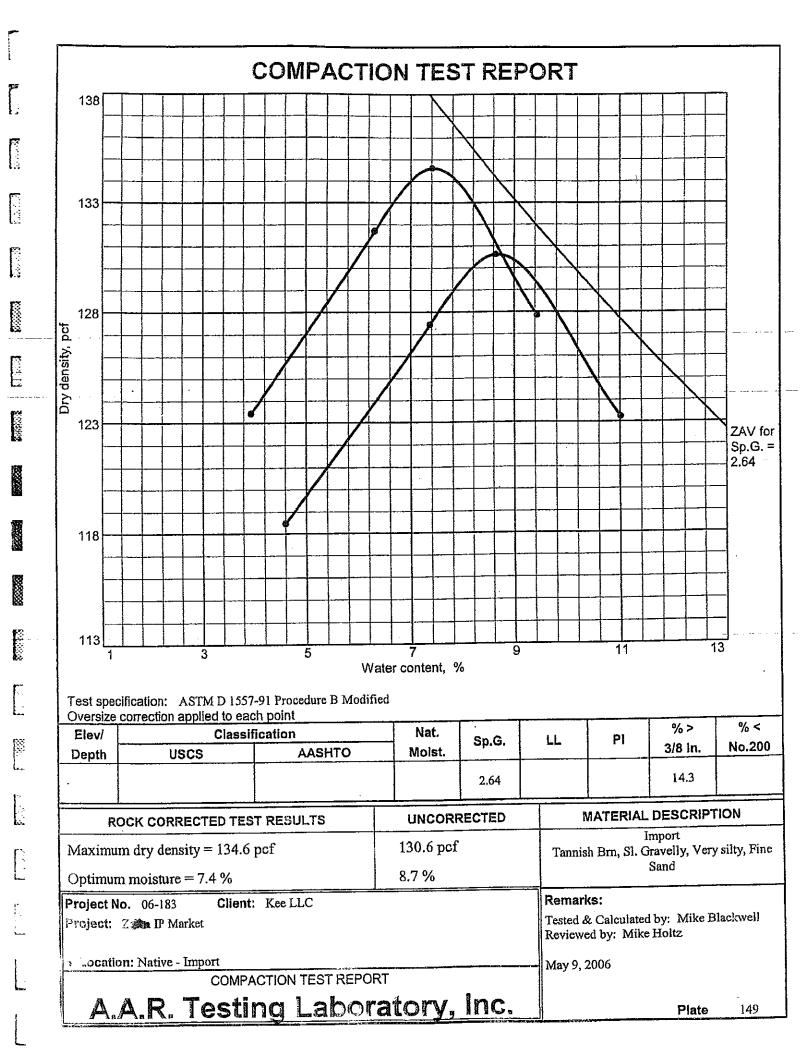
Boring Date: *May 5, 2006* Figure 2



UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX H COMPACTION TEST REPORT BY AAR TESTING LAB





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Client:	Kee LLC		Prv	ject Number	06-183	Rock (1885) von Gebeure (1886) von Sterne	98, 80 <u>20, 4</u> 20,00
Contact:	Kee			ject Name:	ZIP Mari		
Address:	P.O. Box 25	532		iress:		6th Ave SW	
		WA. 98073		mit Number:	190288	OMITATO OFF	
Date:	5/9/2006		Tim		4:00:00	738.4	
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Mate	erial Description	n: Light brown sandy w	//g N	uclear Gauge:	: Troxier:	3430 21240	
Laye	er Thickness:	1'-2'		est Methods:		M D2922, ASTA	4 D3017
Sou	rce:	Native	∠] DirectTransr		Back Scatter	
Com	npaction Method	: Hoe Pack				-	
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Secretary sterior		Field Report	Report Number: 27814
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Client:	Kee LLC P.O. Box 2532 Redmond, WA. Kee	Project Number: Permit #: 98073 Project Name: Address:	: 06-183 190288 ZIP Market 10645 16th Ave SW
Date:	5/9/06	Time:	Temperature:
tanks ha Informe at 3:00p 3:00 pm	ad been removed contractor the om.	ite and performed nuclear density testing ed. Observed that moisture % was low at soil needed to be dampened and re-consite. Observed that Geo-Tech had contigood moisture % from contractor spraying	and compaction % was low. ompacted. I was asked to return

#6289.

Was asked to return on 5-10-06 to test every lift.

Distribute Municipality	✓ Distribute Owner ✓ Distribute Other	Inspector: Reviewed by:	Pfaff, Tara ID #SI 01467 Kim Anderson
Distribute Architect	Distribute Other		

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Contact:			Project Num	·		
Address			Project Nam Address:		larket	
Audiess,	Redmond, WA. 98073				5 16th Ave SW	
Date:	5/10/2006		Permit Numi	ber: 19028	38	
D4(6.	5/10/2006		Time:			.
	a				elevior il	
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Cor	mpaction Method: Hoe Pack		A Discri	ansmission	L Dack Scatter	
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ompaction f	Requirements: 93 % 😿	Conformance	Non Confor	mance		
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Geo-tech ac	cepts 93% compaction and abo	ove, compaction rec	quirement is p	er Geo-tech.		
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Field Density Report - Nuclear Method

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Cont	tact:	К өе				Project Nam	_	P Marke	ıt	
Addı	ess: F	P.O. Box 25	532			Address:			h Ave SW	
	F	Redmond, V	VA. 98073			Permit Num		0288		
Date:	: 5	/10/2006				Time:				
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··· —-			altili Deces				بخالسيد	-21,112-,	M29=	
	Material I	Description	: Light brown sand	ly w/a		Nuclear G	auge: T	roxier 34	30 21240	
	Layer Th	ckness;	1'-2'			Test Metho			D2922, ASTM	D3017
	Source:		Native			✓ DirectT	ransmissi	on 🗌	Back Scatter	
	Compact	on Method	: Hoe Pack							
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	Modif	ied Procto	ASTM D1557	<u> </u>	Der	sity Count:	2	109 Moi	sture Count:	653
Test#		Locations/	Elevations	Wet D	ensity	Moisture%	Dry Den	sity Lat	Density %Cor	npaction
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18 I i	Backfill of import mat	removed ta erial, North	nk hole, 2nd lift of east section		136.8	3 7	12	7.9	134.6	95%
19 E	Backfill of a mport mat	removed ta erial, North	nk hole, 3rd lift of east section		136.5	5 5.5	12	9.4	134.6	96%
20 E	Backfill of a mport mat	removed ta erial, North	nk hole, 1st lift of_ west section		135.4	7.9	12	5.5	134.6	93%
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Clie	nt:	Kee LLC			Þ	roject Num	ber 06-1	83	
Con	itact;	Kee			P	roject Nam	e: ZIP N	/larket	
Add	ress;	P.O. Box 25	32		A	ddress:	1064	5 16th Ave SW	
		Redmond, V	VA. 98073		P	ermit Numi	er: 1902	88	
Date): -	5/10/2006			Т	me:		<u></u>	
			inesettions accom					device.	
	Materia	I Description	: Light brown s	sandy w/a	, e	Nuclear Ga	uge: Trox	ler 3430 21240	
		Thickness:	1'-2'			Test Metho	_	STM D2922, AS	TM D3017
	Source	:	Native			✓ DirectTr		Back Scatte	
	Compa	ction Method	: Hoe Pack						
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	Mo	dified Procto	r ASTM D1557		Den	sity Count:	2109	Moisture Count	
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13		of removed ta naterial, Norti	ank hole, 1st lif n section	t of	134.5	6.1	126.8	3 134.6	94%
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Cont	tact:	Kee			P	roject Name	: ZIP M	arket	
Addr	ess:	P.O. Box 253	32		A	ddress:	10645	16th Ave SW	
		Redmond, W	'A. 98073		P	ermit Numb	er: 19028	8	
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	Source		Native			✓ DirectTra	ansmission	Back Scatter	
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Test#		Locations/	Elevations	Wet De	nsity	Moisture%	Dry Density	Lab Density %Com	paction
9	Backfil section		nk hole, -5' West		130.4	6.5	122.5	126.9	97%
10	Backfill section		ink hole, -4' South		133.7	8.4	123.3	126.9	97%
11	Backfil section		ank hole, -4' East		135.2	8.3	124.8	126.9	98%
12	Backfil section		ink hole, -4' West		132.5	9.3	121.2	126.9	96%
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Clien	t:	Kee LLC			Proje	ct Number	06-183	;	
Conta	act:	Kee			Proje	ct Name:	ZIP Mai	rket	
Addre	ess:	P.O. Box 25	32		Addre	95:	10645 1	6th Ave SW	
		Redmond, \	VA. 98073		Perm	it Number:	190288		
Date:		5/10/2006			Time:				
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	-		n: Light brown		Niii	clear Gauge:	Troxle	3430 21240	
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Test#		Locations	/Elevations	Wet (Density Mo	isture% Dr	Density	Lab Density %Co	mpaction
5	Backfil section		tank hole, -6'	East	130.9	8	121.2	126.9	96%
6	Backfil section		tank hole, -6'	West	127.2	4.7	121.5	126.9	96%
. 7	Backfi section		tank hole, -5'	North	128.7	7.1	120.2	126.9	95%
8	Backfi section		tank hole, -5¹	East	130,4	6.2	122.8	126.9	97%
Remark	ks/Spec	equirements: :ifications epts 93% con		Conformation					
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Client Conta Addre	act: } ess: F	Kee LLC Kee P.O. Box 25 Redmond, V 5/10/2006	32 VA. 98073		Proje Addre	it Number:	ZIP Ma 10645	rket I6th Ave SW	
	Material Layer Ti Source: Compac	Description nickness:	ntics (Prown sandy 1'-2' Native d: Hoe Pack	w/a	Nu Te	clear Gaug	e: Troxle : Soll AS smission	12.7./ 151 r 3430 21240 TM D2922, ASTM Back Scatter	D3017
	Spiritural	مشرع تصديقه بيممدد	or ASTM D1557		Density		2109	Moisture Count:	653
Test#		Locations	/Elevations	Wet Den	sity Mo	oisture% C	ry Density	Lab Density %Co	mpaction
1	Backfill of	f removed	lank hole, -7' North	1	124.6	5.9	117.6	126.9	93%
2		of removed	tank hole, -7' East	1	130.7	4.6	124.9	126.9	98%
3	Backfill o	of removed	tank hole, -7' West		126	7	117.7	126.9	93%
4		of removed	tank hole, -6' South		126.1	4.8	120.3	126.9	95%
Remark	ks/Specifi	uirements: cations ts 93% con	93 % 📝 Cor	compactio		on Conform			
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All reports of AAR To	s are conside esting is stric	ered confidentia Hy (critidden)	al and are the property of the	client and A	AR Testing	Laboratory inc	cReproductio	n except in full, without	ihe written consent

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Client	t:	Kee LLC			Proje	ct Number	06-183	3	
Conta	act:	Kee	•		Proje	ct Name:	Z!P Ma	rket	
Addre	ess:	P.O. Box 25	32		Addr	ess:	10645	16th Ave SW	
		Redmond, V	VA. 98073		Pem	it Number:	190288	;	
Date:		5/11/2006			Time	: 			
			NegLibies (e)				iliaenia	litaval (a. Francisco	and a second
	Mater	rial Description	: Brown Silty	sand with	Nu	iclear Gauge	: Troxle	г 3430 21240	
		Thickness:	1' to 2'			st Methods:		TM D2922, ASTN	03017
	Source		Import		✓	DirectTrans	mission	Back Scatter	
	Comp	action Method	•						
			ersus junito		1				
		Andified Procto	factors also a post a surrection of		Density	Count:	2109	Moisture Count:	653
!Test#			/Elevations					Lab Density %Co	ompaction
l								134.6	92%
1	Backfi section	ill of removed t n.	ank hole - 3' \$	South	134.4	8	124.5		
2	Backfi sectio	ill of removed t n.	ank hole - 3' i	North	136.1	8.6	125.3	134.6	93%
3	Backfi sectio	ill of removed t	ank hole - 3' l	East	135.1	6,6	126.7	134.6	94%
4	Backf sectio	ill of removed i	tank hole - 3' '	West	134.2	7.2	125.2	134.6	93%
Compa	ction R	equirements:	95 %	✓ Conforman	ce 🗌 N	on Conforma	nce		
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Client: Contact: Address:	Kee LLC Kee P.O. Box 2532 Redmond, WA. 98073	Projec Addre	t Number t Name: ss: : Number:	06-183 ZIP Marke 10645 16 190288	et th Ave SW	
Date:	5/11/2006	Time:		anger a sarah	San	,
La _y So	terial Description: Brown Slity sand yer Thickness: 1' to 2' urce: Import	Tes	lear Gauge t Methods: DirectTransi	Soil AST	:: 6 :8 3430 21240 M D2922, ASTM I] Back Scatter	03017
Co	Modified Proctor ASTM D1557	Density (Count:		foisture Count:	653
Test#	Locations/Elevations				134.6	94%
	ckfill of removed tank hole - 2' South	135	6.4	126.9	154.0	0470
	ckfill of removed tank hole - 2' North stion	136.2	6,2	128.2	134.6	95%
	ckfill of removed tank hole - 2' East	134.9	7.6	125.4	134.6	93%
	ckfill of removed tank hole - 2' West ction	134.8	6.1	127	134.6	94%
		conformance No	n Conforma	ince	·	
Remarks/S Crushed re	Specifications ock is to be placed to bring this to g	rade.				
☐ Distribu	te Engineer Distribute Other 2 te Municipality Distribute Other 3 te Contractor Tost results indicate Architect and conditions who	2	ucteu.	y: F		, at the time

All reports are considered confidential and are the property of AAR Testing is strictly forbidden.

Field Density Report - Nuclear Method

Report Number 6278

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Clie	nt:	Kee LLC			P	roject Numi	ber 06-1	B3	
Conf	tact:	Kee			P	roject Name	: ZIP N	larket	
Addı	ress:	P.O. Box 253	2		A	ddress:	1064	i 16th Ave SW	
		Redmond, W	A. 98073		P	ermit Numb	er. 19028	18	•
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			Brown Silty sand	with		Nuclous Co			
		Thickness:	1' to 2'	AA1111		Nuclear Ga Test Metho	_	er 3430 21240 STM D2922, ASTM	I D3017
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Test#		Locations/E	levations	Wet D			Dry Density	/ Lab Density %Co	mpaction
9	Backfil section		nk hole - 1' South		135.7	8.5	125.1	134.6	93%
10	Backfill section		nk hole - 1' North		134.3	7.9	124,5	134.6	92%
11	Backfill section		nk hole - 1' East		135.2	6.5	126.6	134.6	94%
12	Backfill section		nk hole - 1' West		135.3	6.6	126.8	134.6	94%
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Oistrit	bute Clie bute Eng bute Mu	gineer 🔲 Di	stribute Other 1 stribute Other 2 stribute Other 3			Reviewe Tested B		Blackwell, Mike Pfaff, Tara ID #SI 0	·
Distrit	oute Cor oute Arc	ntractor Te					t≟ha gbove i	ndicated locations,	at the lime

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UST CLOSURE ACTION REPORT ZIP MARKET 10645 16TH AVE SW SEATTLE, WA 98106 Project ZM052306-3

APPENDIX I UST CLOSURE AND SITE ASSESSMENT NOTICE



UNDERGROUND STORAGE TANK Closure and Site Assessment Notice

· (1) · (1)	parsai .
FOR OFFICE USE ONLY	1.
Site ID#:	
Facility Site ID #:	į
CE L'INCHES CONTRACTOR DE L'ANTINOMENT DE L'AN	-

See back of form for instructions

appropriate box(es	s)	Sondan Manual		/
princip runn 0/03	w Onange-in-c	pervice a remand	ank Closure	Site Check/Site Assessme
Site Inform	nation		Owner ir	nformation
er 9746 Ecology if the tanks are	L+ registered)	UST Owi	ner/Operator <i>CI</i>	hong NAM.
Name Zip	Market 4 Ga	<u>১এ</u> Mailing A	ddress	5 16th Ave S
10645	16th Ave Si	W		Ollect
			Seattle	P.O. Box , WA 9810
28106 Tele	phone (45) 443	-4608 Zip Code	98106 T	elephone (443-
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zamona	State		Teleph	one 206) 914-498
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<u>KEE, UC</u>	-			
edmind	WA	_		one 206) 914-498
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		•		Contamination Present
	Tank Informati	on		at the Time of Closure
Closure Date	Closure Method	Tank Capacity	Substance Stored	
/				Yes No Unknown Check unknown if no obvious
12				contamination was observe
11119	IF IT I'M U LIN	70,000	<u>Gasoline</u>	and sample results have no yet been received from analytical lab.
And the Law of Control of the Law				. Xad. □
				·
	Site Inforr er 9746 Ecology if the tanks are Name Zip 10645 Scattle 38106 Teler any Kervisor Ke P. D. Box Sedmond assessor KEE, UC Edmand	Site Information er 97464 Ecology if the tanks are registered) Name Zip Market 4 Ga Street 10645 16th Ave Si Scattle, WA 98106 38106 Telephone (43) 443 ature Tank Closure/Cany KEE, LLC Invisor Kee-Hoon P Signature Day State Site Chassessor KEE-Hoon KEE, LLC edmand WA State Tank Informati Closure Date Closure Method May 3 2506 Destruction May 3, 2506 Destruction	Site Information er 97464 UST Own Ecology if the tanks are registered) Name Zip Market 4 Gas Mailing A Street 10645 16th Ave SW Scattle, WA 9\$106 City/State 7\$106 Telephone (43 443 460\$ Zip Code ature Tank Closure/Change-In-Service WEE, LLC Tryisor Kee-Hoon Pak Decomn Signature P. 0. Box 2532 P.O. Box State Zip Code Site Check/Site Assess KEE, LLC P. 0. Bo, P.O. Box KEE, LLC Tank Information Closure Date May 3 2006 Destruction 12,000 May 3, 2006 Destruction 12,000 May 3, 2006 Destruction 12,000	Site Information Site Information Owner in the state Informa

To receive this document in an alternative format, contact the Toxics Cleanup Program at 360-407-7170 (voice) or 1-800-833-6388 OR 711 (TTY)

ECY 020-94 (Rev. 2-06)