June 13, 2008

Ms. Donna Drogos
Alameda County Environmental Health
1131 Harbor Parkway, Suite 250
Oakland, CA 94502-6577

Subject: **First Quarter 2008 Groundwater Monitoring Report**
Stop 'N' Save
20570 Stanton Avenue, Castro Valley, Alameda County, California
Apex Project No. STS08.001
RO0000179

Ms. Drogos:

Enclosed please find a copy of the June 3, 2008, First Quarter 2008 Monitoring Report for the above referenced site, prepared by our consultant, Apex Envirotech, Inc.

I declare, under penalty and perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Sincerely,

Sean Kapoor

are detailed in ESTC's *Interim Corrective Action*, dated August 17, 2000. Results of the sampling and disposal activities are detailed in ESTC's *Soil Sampling, Treatment and Disposal of Contaminated Stockpiled Soil*, dated August 21, 2000.

September 2000 – ESTC performed a preliminary soil and groundwater assessment of the subject property. Results are detailed in their *Preliminary Soil and Groundwater Assessment* report, dated October 13, 2000.

October 2000 – ESTC installed three groundwater monitoring wells at the subject site (STMW-1 through STMW-3).

September 2007 – Apex was contracted by SNS to bring the site into compliance with all regulatory agencies.

GENERAL SITE INFORMATION

Site name	Stop 'N' Save
Site address	20570 Stanton Avenue, Castro Valley, California
Current property owner	Stop 'N' Save, Inc.
Current site use	Active gasoline station
Current phase of project	Groundwater monitoring
Tanks at site	3 USTs
Number of wells	3 groundwater monitoring wells

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date	March 27, 2008
Wells gauged and sampled	STMW-1, STMW-2, and STMW-3
Wells gauged only	None
Groundwater flow direction	East-northeast
Groundwater gradient	0.053 ft/ft
Floating liquid hydrocarbon	None
Laboratory	Analytical Sciences, Petaluma, California

Analyses Performed

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Gasoline	TPHg	Gas Range Hydrocarbons	8015
Benzene	BTEX	Aromatic Volatile Organics	8260B
Toluene			
Ethylbenzene			
Xylenes (Total)			
Tertiary Butyl Alcohol	TBA	Five Fuel Oxygenates	
Methyl Tertiary Butyl Ether	MTBE		
Di-isopropyl Ether	DIPE		
Ethyl Tertiary Butyl Ether	ETBE		
Tertiary Amyl Methyl Ether	TAME		
1,2-Dichloroethane	1,2-DCA	Lead Scavengers	
Ethylene dibromide	EDB		

Analytical data for water samples are summarized in Table 3. Copies of the laboratory analytical report and chain-of-custody (COC) form are included in Appendix C.

Modifications from Standard Monitoring Program

None.

CONCLUSIONS

According to analytical lab data, TPHg, benzene, and MTBE concentrations are centered around STMW-1. The presence of TBA and the declining trends of contaminant concentrations suggest natural attenuation is occurring in the shallow-zone aquifer at the site.

Groundwater levels have increased an average of 0.69 ft since the last sampling event.

RECOMMENDATIONS

Apex will continue quarterly groundwater monitoring. The next quarterly sampling event is scheduled for June 2008.

ATTACHMENTS

Figure 1: Site Vicinity Map
Figure 2: Site Plan Map
Figure 3: Groundwater Contour Map: March 27, 2008
Figure 4: TPHg in Groundwater Isoconcentration Map: March 27, 2008
Figure 5: Benzene in Groundwater Isoconcentration Map: March 27, 2008
Figure 6: MTBE in Groundwater Isoconcentration Map: March 27, 2008

Table 1: Well Construction Details
Table 2: Groundwater Elevation Data
Table 3: Groundwater Analytical Data

Appendix A: Apex Standard Operating Procedures
Appendix B: Field Data Sheets
Appendix C: Laboratory Analytical Reports and COC Form

REPORT DISTRIBUTION

Apex submitted a copy of this Report to:

Regulatory Oversight: Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Oakland, California 94502-6577

Mr. Chuck Headless
San Francisco Bay RWQCB-Geotracker only
1515 Clay Street, Suite 1400
Oakland, CA 94612

Responsible Party: Mr. Sean Kapoor

APEX
ENVIROTECH, INC.

3446 N. Golden State Blvd., Suite C • Turlock, CA 95382
Phone: 209.667.6874 • Fax: 209.667.9668

June 3, 2008

Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Oakland, California 94502-6577

Subject: **First Quarter 2008 Groundwater Monitoring Report**
Stop 'N' Save
20570 Stanton Avenue, Castro Valley, Alameda County, California
Apex Project No. STS08.001

Dear Ms. Drogos:

Apex Envirotech, Inc. (Apex) has been authorized by Stop 'N' Save (SNS) to provide this report documenting the first quarter groundwater monitoring event conducted March 27, 2008. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as appendices.

This report is based, in part, on information obtained by Apex from SNS and Enviro Soil Tech Consultants (ESTC), and is subject to modification as newly acquired information may warrant.

SITE DESCRIPTION

The site is located at 20570 Stanton Avenue, Castro Valley, Alameda County, California (Figure 1). The site is situated in a commercial and residential area and is currently being used as a convenience store.

BACKGROUND

February 24, 2000 – Two 10,000-gallon gasoline underground storage tanks (USTs) were removed by Johnson Tank Testing and Maintenance. Results are detailed in the ESTC report *Soil Sampling Beneath Removed USTs*, dated March 8, 2000.

May 18, 2000 – ESTC submitted their *Proposed Work Plan for Preliminary Site Assessment.*

July 25 and 26, 2000 – ESTC over-excavated and treated by bioremediation 150 cubic yards of contaminated soil in the vicinity of former UST areas. Results of the bioremediation activities

REMARKS AND SIGNATURES

The information contained within this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described above was performed under the direct supervision of the professional geologists, registered with the State of California, whose signatures appear below.

We appreciate the opportunity to provide SNS geologic, engineering and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (209) 667-6874.

Sincerely,

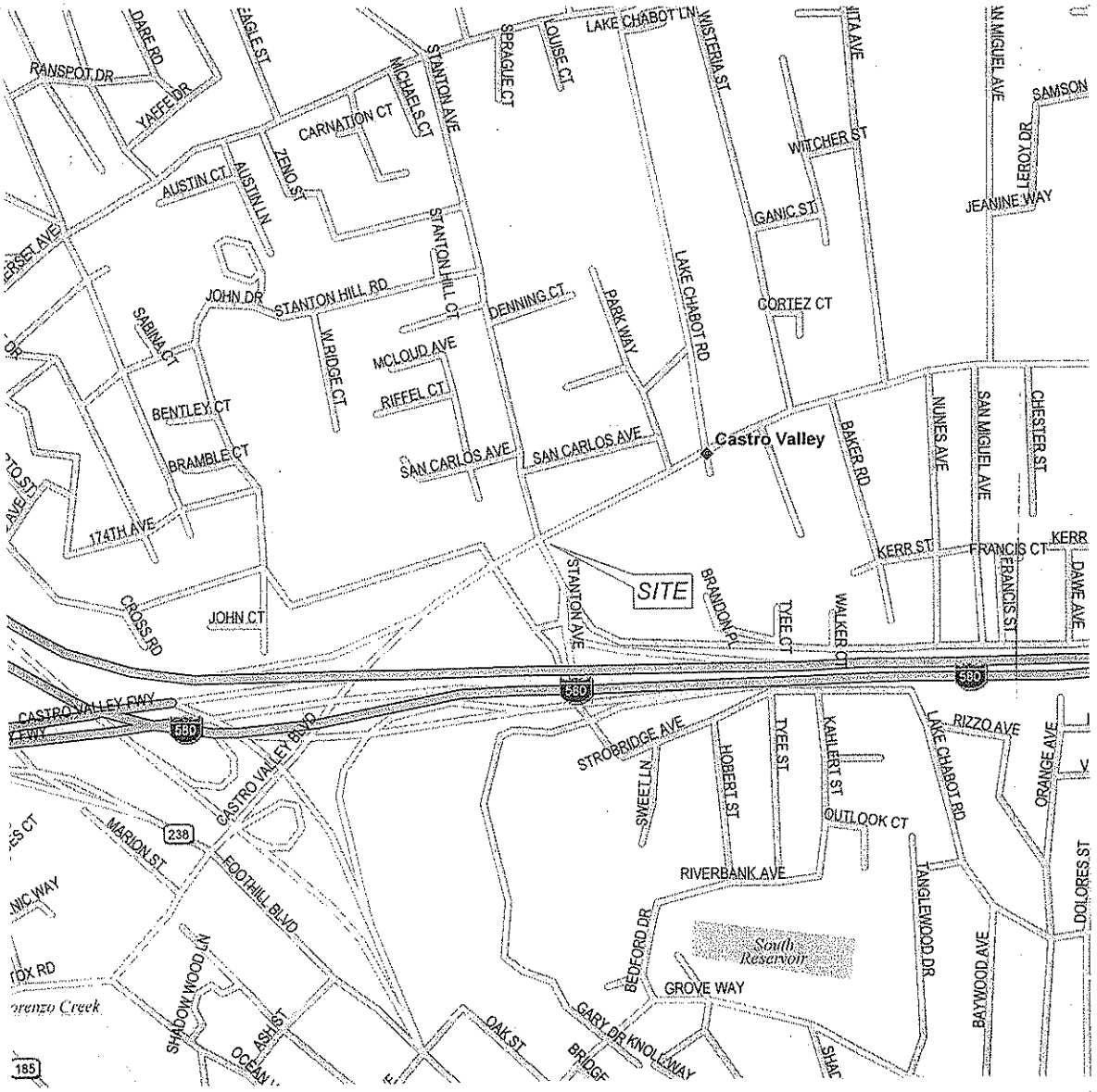
APEX ENVIROTECH, INC.

for Christy Black
Project Manager

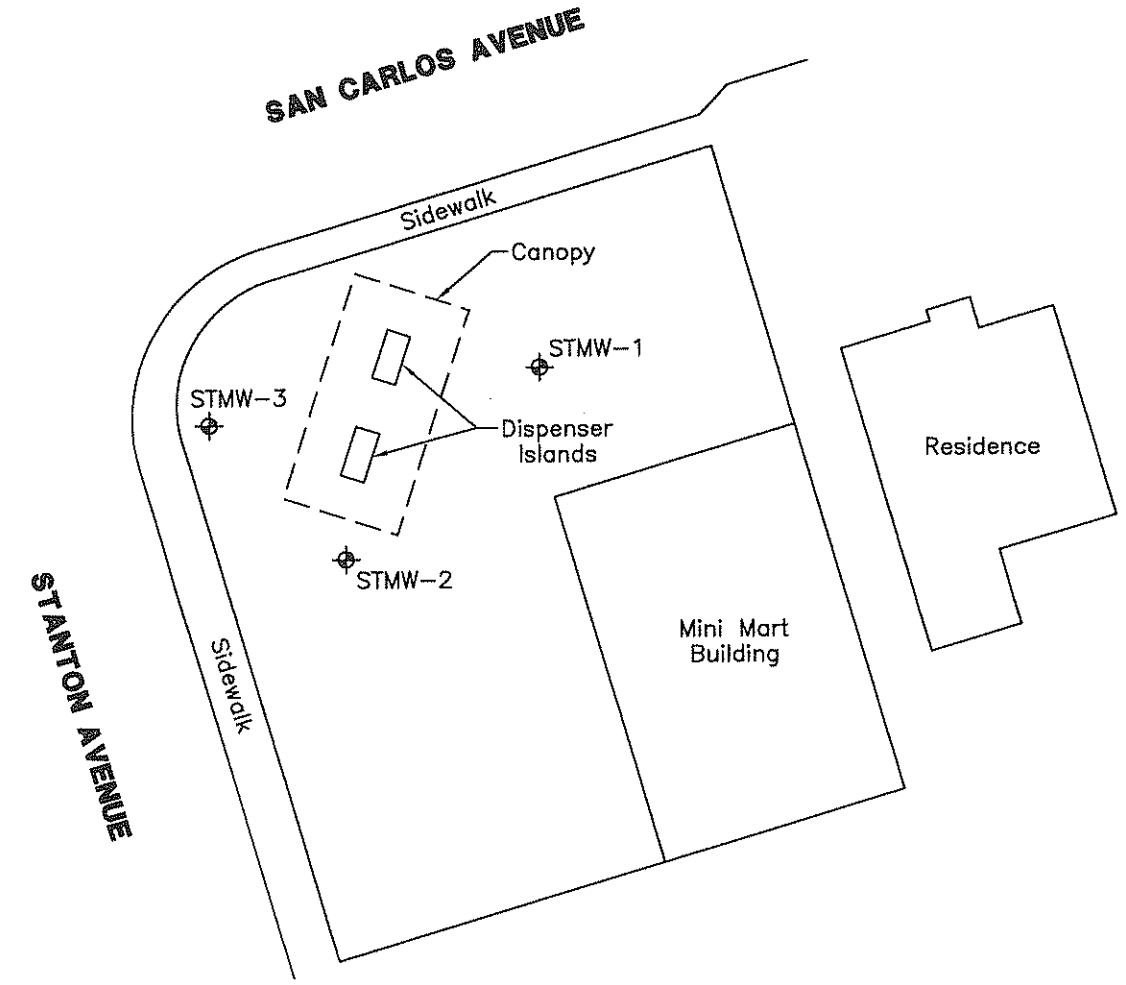
for Drew Van Allen
Senior Project Manager

Michael S. Sgourakis, P.G.
Senior Geologist
PG No. 7194

FIGURES



APEX ENVIROTECH, INC.	DRAWN BY: D. Alston DATE: 10/29/07 REVISIONS	**SITE VICINITY MAP**	FIGURE **1**
		Stop 'N' Save 20570 Stanton Avenue Castro Valley, California	PROJECT NUMBER: STS08.001



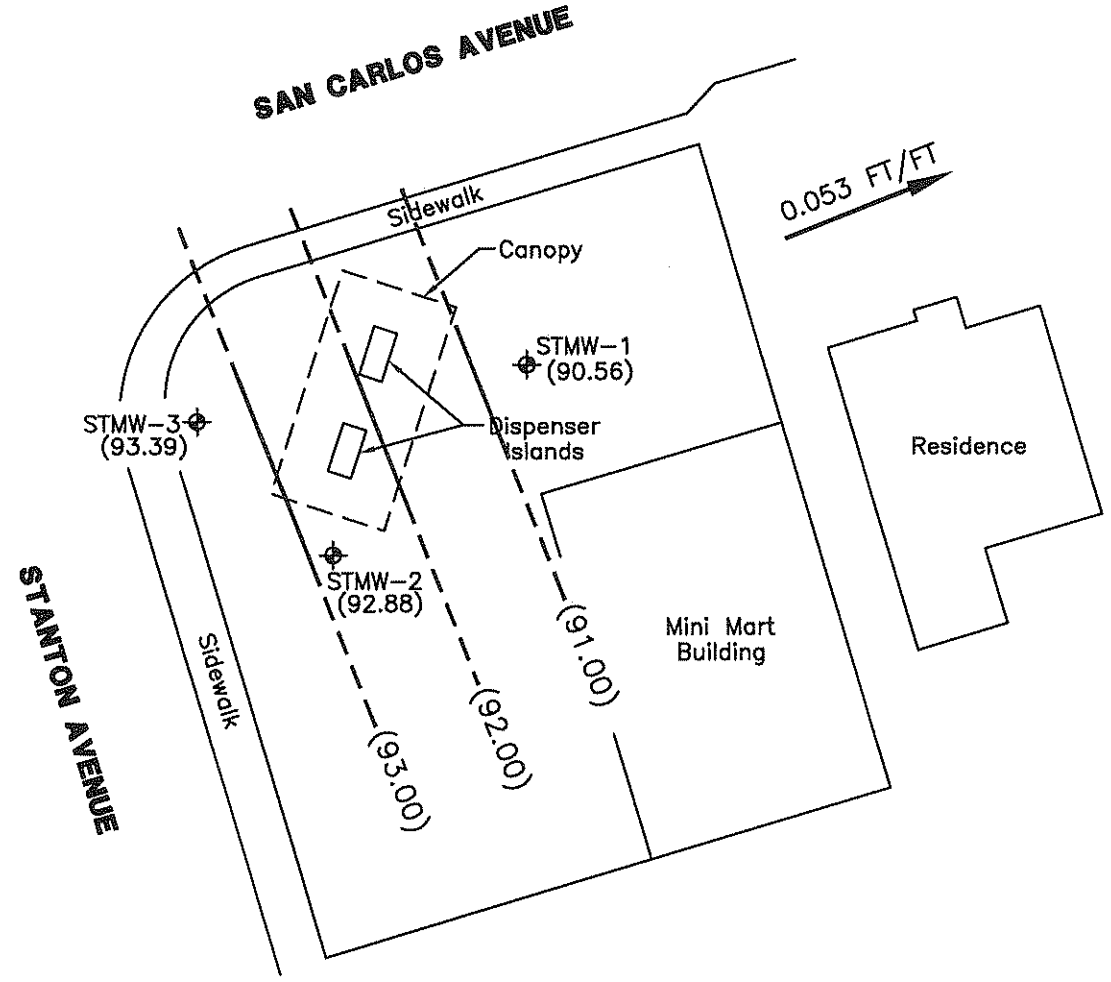
LEGEND

⊕ Monitoring Well Location

0 30 60

Approximate Scale
1 inch = 30 feet

APEX ENVIROTECH, INC.	DRAWN BY: D. Alston DATE: 10/26/07 REVISIONS	**SITE PLAN MAP** Stop 'N' Save 20570 Stanton Avenue Castro Vallley, California	FIGURE **2** PROJECT NUMBER: STS08.001



LEGEND

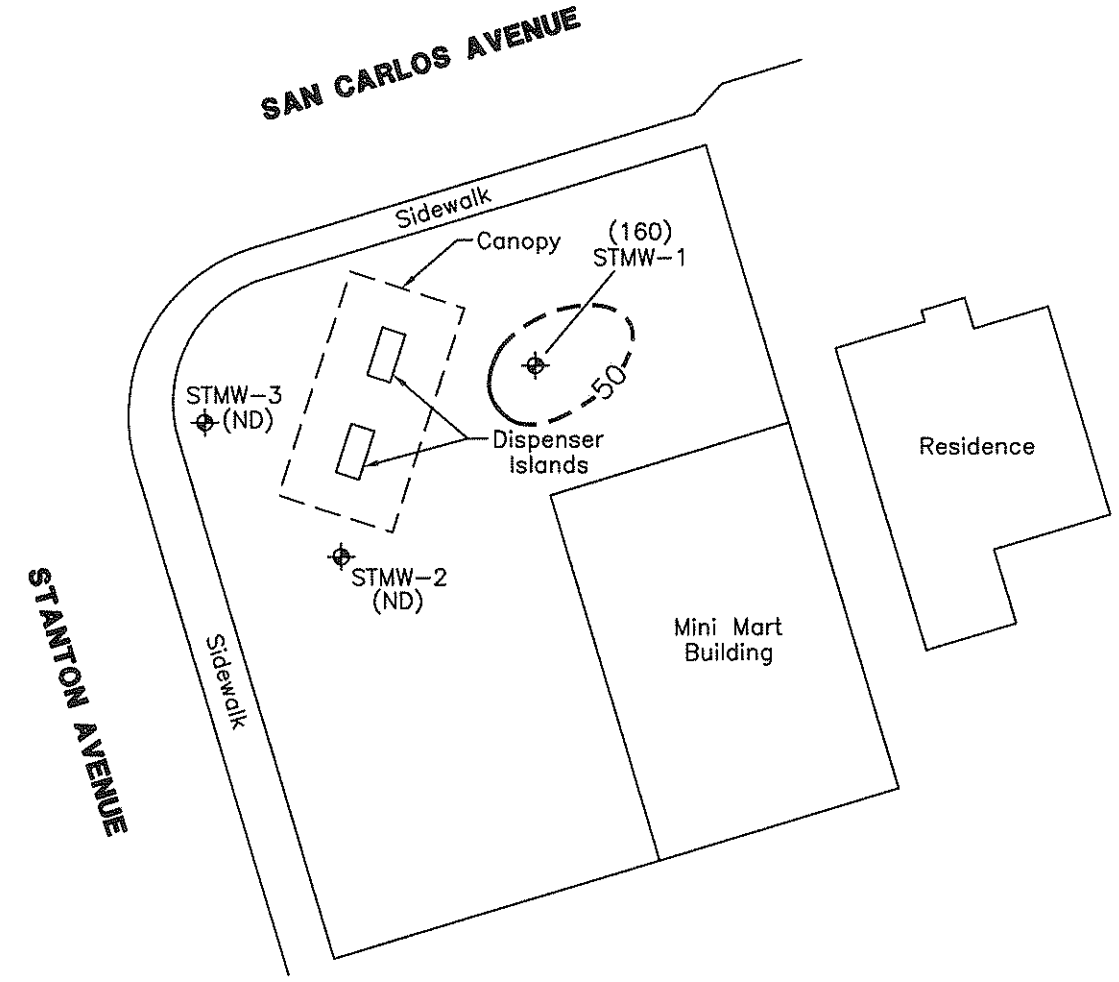
- Monitoring Well Location
- (93.00) Groundwater Contour Line; Dashed Where Inferred (Contour Interval = 1.0 ft.)
- 0.053 FT/FT Approximate Groundwater Gradient And Flow Direction

N

0 30 60

Approximate Scale
1 inch = 30 feet

APEX ENVIROTECH, INC.	DRAWN BY: D. Alston DATE: 6/2/08 REVISIONS	**GROUNDWATER CONTOUR MAP: MARCH 27, 2008** Stop 'N' Save 20570 Stanton Avenue Castro Vallley, California	FIGURE **3** PROJECT NUMBER: STS08.001



LEGEND

- Monitoring Well Location
- (160) Concentration Of TPHg In Groundwater Measured In ug/L
- 50 Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected

N

0 30 60

Approximate Scale
1 inch = 30 feet

APEX ENVIROTECH, INC.

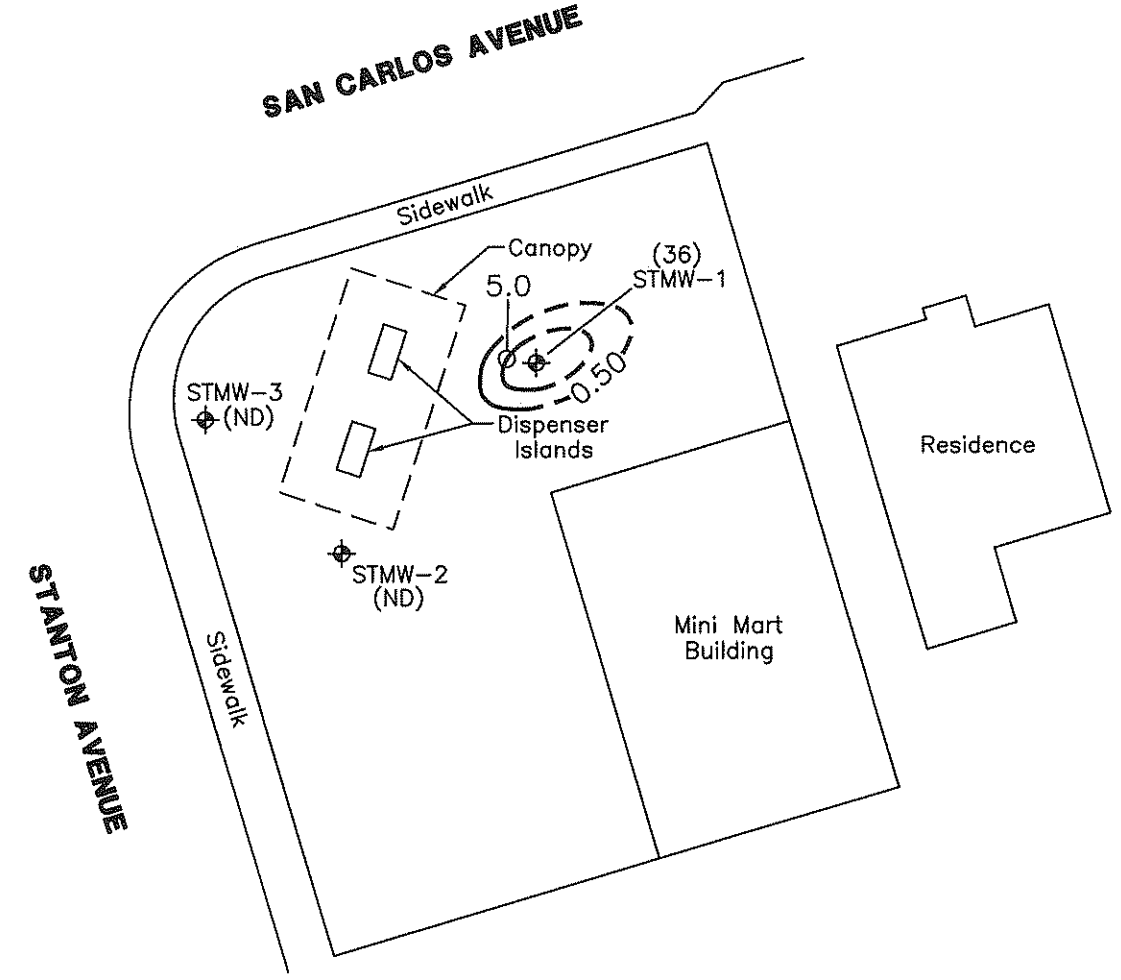
DRAWN BY:	D. Alston
DATE:	6/2/08
REVISIONS	

TPHg IN GROUNDWATER ISOCONCENTRATION MAP: MARCH 27, 2008

Stop 'N' Save
20570 Stanton Avenue
Castro Vallley, California

FIGURE
4

PROJECT NUMBER:
STS08.001



LEGEND

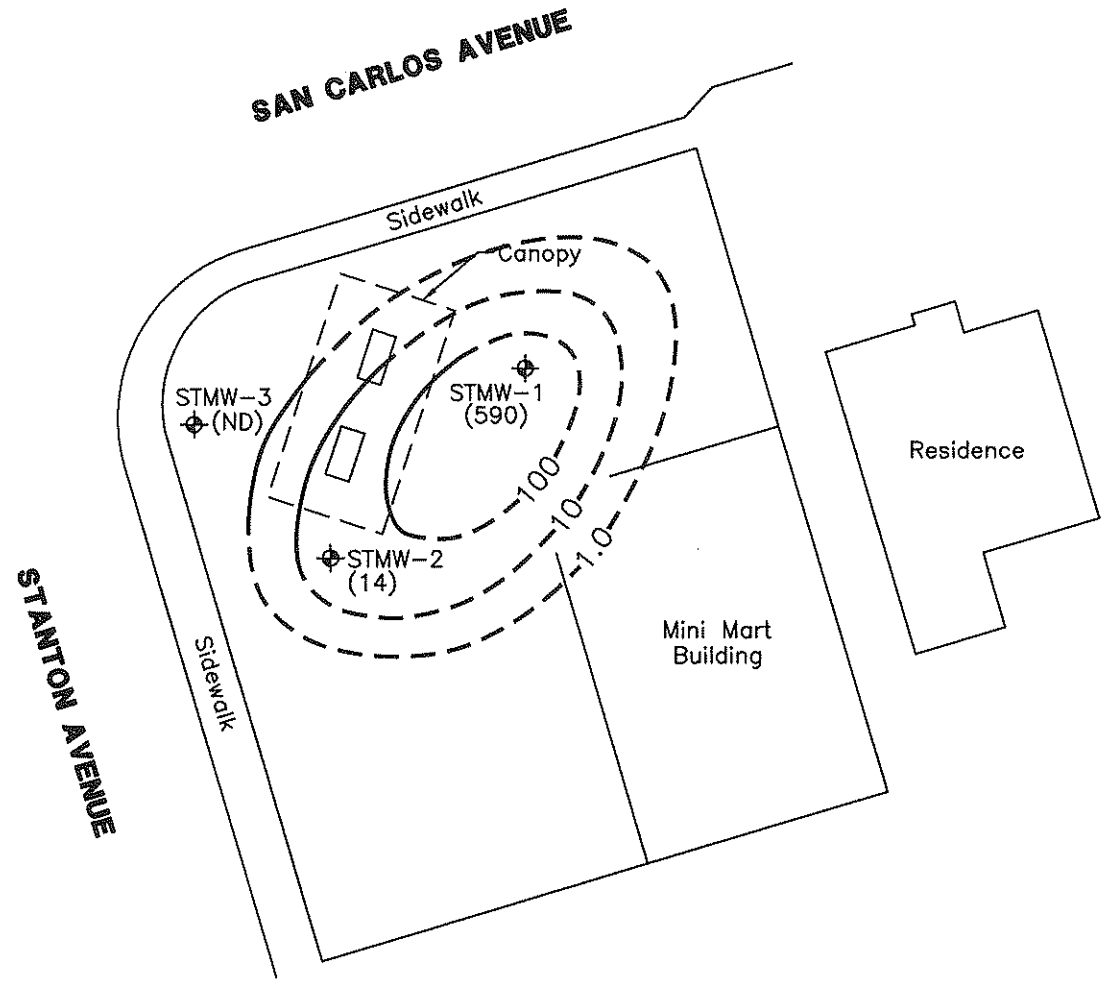
- ⊕ Monitoring Well Location
- (36) Concentration Of Benzene In Groundwater Measured In ug/L
- —5.0— Line Of Equal Concentration Of Benzene In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected

N

0 30 60

Approximate Scale
1 inch = 30 feet

APEX ENVIROTECH, INC.	DRAWN BY: D. Alston DATE: 6/2/08 REVISIONS	**BENZENE IN GROUNDWATER ISOCONCENTRATION MAP: MARCH 27, 2008** Stop 'N' Save 20570 Stanton Avenue Castro Vallley, California	FIGURE **5** PROJECT NUMBER: STS08.001



LEGEND

- ⊕ Monitoring Well Location
- (590) Concentration Of MTBE In Groundwater Measured In ug/L
- —100— Line Of Equal Concentration Of MTBE In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected

N

0 30 60

Approximate Scale
1 inch = 30 feet

APEX ENVIROTECH, INC.

DRAWN BY:	D. Alston
DATE:	6/2/08
REVISIONS	

MTBE IN GROUNDWATER ISOCONCENTRATION MAP: MARCH 27, 2008

Stop 'N' Save
20570 Stanton Avenue
Castro Vallley, California

FIGURE
6

PROJECT NUMBER:
STS08.001

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
STMW-1	10/2000	97.93	PVC	23	23	2	9-23	8-23
STMW-2	10/2000	99.04	PVC	23	22	2	9-22	8-22
STMW-3	10/2000	99.60	PVC	23	22	2	9-22	8-22

Notes:
TOC = Top of Casing

TABLE 2
GROUNDWATER ELEVATION DATA
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

Monitoring Well	Date	Reference Elevation*	Depth to Groundwater	Groundwater Elevation	Groundwater Flow Direction
STMW-1	10/4/00	97.93	8.34	89.59	---
	1/4/01		7.86	90.07	---
	3/16/04		5.70	92.23	---
	7/5/04		4.82	93.11	---
	12/28/04		6.82	91.11	---
	3/24/05		5.63	92.30	---
	7/20/05		5.75	92.18	---
	9/15/05		7.44	90.49	---
	12/12/05		5.32	92.61	---
	3/16/06		3.90	94.03	---
	6/22/06		7.12	90.81	---
	9/21/06		7.78	90.15	---
	12/18/06		9.12	88.81	---
	3/22/07		6.82	91.11	---
	6/29/07		9.86	88.07	E
	9/28/07		6.88	91.05	NE
	12/20/07		7.81	90.12	E
	3/27/08		7.37	90.56	ENE
STMW-2	10/4/00	99.04	8.22	90.82	---
	1/4/01		6.70	92.34	---
	3/16/04		6.08	92.96	---
	7/5/04		6.86	92.18	---
	12/28/04		6.22	92.82	---
	3/24/05		5.12	93.92	---
	7/20/05		5.66	93.38	---
	9/15/05		6.14	92.90	---
	12/12/05		6.68	92.36	---
	3/16/06		5.54	93.50	---
	6/22/06		6.02	93.02	---
	9/21/06		6.94	92.10	---
	12/18/06		6.46	92.58	---
	3/22/07		6.16	92.88	---
	6/29/07		9.06	89.98	E
	9/28/07		7.63	91.41	NE
	12/20/07		7.43	91.61	E
	3/27/08		6.16	92.88	ENE
STMW-3	10/4/00	99.60	8.42	91.18	---
	1/4/01		6.16	93.44	---
	3/16/04		7.18	92.42	---
	7/5/04		6.27	93.33	---
	12/28/04		5.64	93.96	---
	3/24/05		5.12	94.48	---
	7/20/05		5.50	94.10	---
	9/15/05		5.56	94.04	---
	12/12/05		6.26	93.34	---
	3/16/06		5.14	94.46	---
	6/22/06		5.92	93.68	---
	9/21/06		6.14	93.46	---
	12/18/06		5.50	94.10	---
	3/22/07		5.88	93.72	---
	6/29/07		8.82	90.78	E
	9/28/07		8.14	91.46	NE
	12/20/07		6.56	93.04	E
	3/27/08		6.21	93.39	ENE

NOTES

* -Wells surveyed to mean sea level

TABLE 3
GROUNDWATER ANALYTICAL DATA
Stop 'N' Save
20570 Stanton Avenue
Castro Valley, California

Sample ID	Date	TPH as Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	Five Oxygenates by EPA Method 8260					Lead Scavengers	
							DIPE (µg/L)	ETBE (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
STMW-1	10/4/00	60,000	<2,500	<2,500	<2,500	<2,500	---	---	69,000	---	<10,000	---	---
	1/4/01	71,000	<5,000	<5,000	<5,000	<5,000	---	---	89,000	---	<20,000	---	---
	3/16/04	260	52	64	7.9	27	---	---	39	---	<10	---	---
	7/5/04	2,100	17	240	2.6	12	---	---	520	---	<50	---	---
	12/28/04	310	89	90	11	43	---	---	32	---	<20	---	---
	3/24/05	630	43	140	16	110	---	---	20	---	<20	---	---
	7/20/05	330[b]	12	22	<2.5	9.3	---	---	310	---	<50	---	---
	9/15/05	15,000	<100	<100	<100	<100	---	---	13,000	---	2,500	---	---
	12/12/05	130	4.4	7.5	<1.0	3	---	---	170	---	100	---	---
	3/16/06	<50	0.9	3.3	<0.5	<0.5	---	---	21	---	<10	---	---
	6/22/06	130	4.4	54	<1.0	7.1	---	---	70	---	<20	---	---
	9/21/06	880	110	32	18	110	---	---	1,600	---	2,300	---	---
	12/18/06	240	7.5	130	1.4	7.6	---	---	130	---	180	---	---
	3/22/07	190	17	13	2.9	14	---	---	360	---	170	---	---
	6/29/07	2,700	340	45	52	310	---	---	3,100	---	2,200	---	---
	9/28/07	1,000	85	2.5	11	72	<2.5	<2.5	1,000	<2.5	5,300	<2.5	<2.5
	12/20/07	690	92	<5.0	<5.0	36	<5.0	<5.0	1,200	<5.0	15,000	<5.0	<5.0
	3/27/08	**160**	**36**	**0.92**	<0.50	**5.1**	<1.0	<1.0	**590**	<1.0	**4,900**	<1.0	<1.0
STMW-2	10/4/00	69	<5.0	<5.0	<5.0	<5.0	---	---	66	---	<20	---	---
	1/4/01	110	<5.0	<5.0	<5.0	<5.0	---	---	120	---	<20	---	---
	3/16/04	1,100[a]	<10	<10	<10	<20	---	---	1,700	---	<200	---	---
	7/5/04	1,800[b]	<10	<10	<10	<20	---	---	1,800	---	<200	---	---
	12/28/04	1,000[b]	<13	<13	<13	<13	---	---	1,400	---	<250	---	---
	3/24/05	760	<5.0	<5.0	<5.0	<5.0	---	---	930	---	180	---	---
	7/20/05	64	<1.0	<1.0	<1.0	<1.0	---	---	43	---	920	---	---
	9/15/05	53	<1.0	<1.0	<1.0	<1.0	---	---	88	---	130	---	---
	12/12/05	<50	2.2	<0.5	0.6	<0.5	---	---	23	---	22	---	---
	3/16/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	34	---	150	---	---
	6/22/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	12	---	200	---	---
	9/21/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	16	---	41	---	---
	12/18/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	15	---	71	---	---
	3/22/07	<50	<0.5	<0.5	<0.5	<0.5	---	---	15	---	71	---	---
	6/29/07	<50	<0.5	<0.5	<0.5	<0.5	---	---	14	---	<10	---	---
	9/28/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	14	<0.5	<5.0	<0.5	<0.5
	12/20/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	6.2	<0.5	54	<0.5	<0.5
	3/27/08	<50	<0.50	<0.50	<0.50	<1.50	<1.0	<1.0	**14**	<1.0	<12	<1.0	<1.0
STMW-3	10/4/00	<50	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	---	<20	---	---
	1/4/01	<50	<5.0	<5.0	<5.0	<5.0	---	---	<5.0	---	<20	---	---
	3/16/04	<50	<0.5	<0.5	<.5	<1.0	---	---	2.8	---	<10	---	---
	7/5/04	<25	<0.5	<0.5	<0.5	<1.0	---	---	2.5	---	<10	---	---
	12/28/04	<25	<0.5	<0.5	<0.5	<0.5	---	---	2.0	---	<10	---	---
	3/24/05	<25	<0.5	<0.5	<0.5	<0.5	---	---	1.4	---	<10	---	---
	7/20/05	<50	<0.5	<0.5	<0.5	<0.5	---	---	1.5	---	<10	---	---
	9/15/05	<50	<0.5	<0.5	<0.5	<0.5	---	---	1.2	---	<10	---	---
	12/12/05	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<0.5	---	---
	3/16/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	6/22/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	9/21/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	12/18/06	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	3/22/07	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	6/29/07	<50	<0.5	<0.5	<0.5	<0.5	---	---	<1.0	---	<10	---	---
	9/28/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	12/20/07	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	3/27/08	<50	<0.50	<0.50	<0.50	<1.50	<1.0	<1.0	<1.0	<1.0	<12	<1.0	<1.0

NOTES:

TPH - Total Petroleum Hydrocarbons
ETBE - Ethyl Tertiary Butyl Ether
MTBE - Methyl Tertiary Butyl Ether
TAME - Tertiary Amyl Methyl Ether
TBA - Tertiary Butyl Alcohol
1,2-DCA - 1,2-Dichloroethane
DIPE - Di-Isopropyl Ether
a - No other indication of gasoline besides MTBE
EDB - Ethylene Dibromide
µg/L - Micrograms per Liter
b - TPH as gasoline reported value due to high concentration of MTBE present in the TPHg quantitation range

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICTION AND CHAIN-OF CUSTODY PROCUDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

1. Participation in state and federal laboratory accreditation/certification programs;
2. Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
3. Standard operating procedures describing routine and periodic instrument maintenance;
4. "out-of-Control"/Corrective Action documentation procedures; and,
5. Multi-level review of raw data and client reports.

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness."

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B

FIELD DATA SHEETS

APEX ENVIROTECH, INC.

Groundwater Level Data Sheet

Project 5TS08.001
Location CASTRO VALLEY
Date 3-27-08
Recorded By VMB

WELL NAME	TIME	DEPTH TO PRODUCT	DEPTH TO WATER	DEPTH TO BOTTOM	WATER COLUMN	WELL VOLUME	PURGE VOLUME	COMMENTS / OBSERVATIONS
STMW-3	1257		6.21	21.6	15.39	2.46	7.38	
STMW-2	1302		6.16	21.4	15.24	2.43	7.31	
STMW-1	1308		7.37	21.0	13.63	2.18	6.54	

Well Volume Calculation:
(2" x 0.16) (4" x 0.65)

APEX ENVIROTECH, INC.

Monitoring Data

Project: STOP & SAVE # 103

Project Number: STS08-001

Date: 3-27-08

Recorded By: VMB

WELL	TIME	TEMP (deg F)	pH	COND. (uS/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
STMW-3	1319	16.9	6.9	182		2.4	
↓	1321	18.0	6.7	109		4.9	
↓	1324	18.8	6.6	>2000		7.3	SAMPLED @ 1400
STMW-2	1332	18.8	6.7	282		2.4	
↓	1334	19.2	6.6	302		4.9	
↓	1337	19.5	6.6	130		7.3	SAMPLED @ 1410
STMW-1	1345	18.2	6.3	163		2.2	
↓	1347	18.4	6.3	161		4.4	
↓	1349	18.5	6.3	101		6.5	SAMPLED @ 1420

TEMPPH.XLS
4/1/97

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

Analytical Sciences

April 04, 2008

Jennifer Worsley
APEX Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670

Dear Jennifer,

Enclosed you will find Analytical Sciences' final report 8032819 for your Stop-N-Save #108 project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

Sincerely,

Analytical Sciences

Mark A. Valentini

Mark A. Valentini, Ph.D.

Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

Analytical Sciences

Report Date: April 04, 2008

Laboratory Report

Jennifer Worsley
APEX Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670

Project Name: **Stop-N-Save #108** **STS08.001**

Lab Project: **8032819**

This 8 page report of analytical data has been reviewed and approved for release.

Mark A. Valentini, Ph.D.
Laboratory Director

P.O. Box 750336
Petaluma, CA 94975-0336
Telephone: (707) 769-3128

110 Liberty Street
Petaluma, CA 94952

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-01	**STMW-1**	Gasoline (C6-C12)	160	50

Date Sampled:	03/27/08	Date Analyzed:	04/02/08	QC Batch: B003940
Date Received:	03/28/08	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-02	**STMW-2**	Gasoline (C6-C12)	ND	50

Date Sampled:	03/27/08	Date Analyzed:	04/02/08	QC Batch: B003940
Date Received:	03/28/08	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-03	**STMW-3**	Gasoline (C6-C12)	ND	50

Date Sampled:	03/27/08	Date Analyzed:	04/02/08	QC Batch: B003940
Date Received:	03/28/08	Method:	EPA 8015	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-01	**STMW-1**	Benzene	36	0.50
		Toluene	0.92	0.50
		Ethylbenzene	ND	0.50
		m,p-Xylene	4.0	1.0
		o-Xylene	1.1	0.50
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	4900	240
		Methyl tert-Butyl Ether (MTBE)	590	20
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	20.8	104	70-130
Toluene-d8	19.8	99	70-130
4-Bromofluorobenzene	20.0	100	70-130

Date Sampled:	03/27/08	Date Analyzed:	04/03/08	QC Batch: B003963
Date Received:	03/28/08	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-02	**STMW-2**	Benzene	ND	0.50
		Toluene	ND	0.50
		Ethylbenzene	ND	0.50
		m,p-Xylene	ND	1.0
		o-Xylene	ND	0.50
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	14	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	22.2	111	70-130
Toluene-d8	19.0	95	70-130
4-Bromofluorobenzene	19.8	99	70-130

Date Sampled:	03/27/08	Date Analyzed:	04/04/08	QC Batch: B003963
Date Received:	03/28/08	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (µg/L)	RDL (µg/L)
8032819-03	**STMW-3**	Benzene	ND	0.50
		Toluene	ND	0.50
		Ethylbenzene	ND	0.50
		m,p-Xylene	ND	1.0
		o-Xylene	ND	0.50
		1,2-Dichloroethane (EDC)	ND	1.0
		1,2-Dibromoethane (EDB)	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	12
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0

Surrogates	Result (µg/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane	22.6	113	70-130
Toluene-d8	19.1	96	70-130
4-Bromofluorobenzene	18.8	94	70-130

Date Sampled:	03/27/08	Date Analyzed:	04/04/08	QC Batch: B003963
Date Received:	03/28/08	Method:	EPA 8260B	

Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003940 - EPA 5030 GC										
Blank (B003940-BLK1)				Prepared: 03/13/08 Analyzed: 03/17/08						
Gasoline (C6-C12)	ND	50	µg/L							
Matrix Spike (B003940-MS1)		Source: 8031303-01		Prepared: 03/13/08 Analyzed: 03/14/08						
Benzene	9.04	0.50	µg/L	10.0	ND	90	70-130			
Toluene	10.1	0.50	µg/L	10.0	ND	101	70-130			
Ethylbenzene	11.0	0.50	µg/L	10.0	ND	110	70-130			
Xylenes	33.7	1.5	µg/L	30.0	ND	112	70-130			
Matrix Spike Dup (B003940-MSD1)		Source: 8031303-01		Prepared: 03/13/08 Analyzed: 03/17/08						
Benzene	9.06	0.50	µg/L	10.0	ND	91	70-130	0.3	20	
Toluene	9.41	0.50	µg/L	10.0	ND	94	70-130	7	20	
Ethylbenzene	9.55	0.50	µg/L	10.0	ND	95	70-130	14	20	
Xylenes	28.8	1.5	µg/L	30.0	ND	96	70-130	15	20	

Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B003963 - EPA 5030 GC/MS										
Blank (B003963-BLK1)				Prepared & Analyzed: 03/18/08						
Benzene	ND	0.50	µg/L							
Toluene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
m,p-Xylene	ND	1.0	µg/L							
o-Xylene	ND	0.50	µg/L							
1,2-Dichloroethane (EDC)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	1.0	µg/L							
Tertiary Butyl Alcohol (TBA)	ND	12	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Di-isopropyl Ether (DIPE)	ND	1.0	µg/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	µg/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	µg/L							
Surrogate: Dibromofluoromethane	*17.3*		*µg/L*	*20.0*		*86*	*70-130*			
Surrogate: Toluene-d8	*21.9*		*µg/L*	*20.0*		*110*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*20.1*		*µg/L*	*20.0*		*100*	*70-130*			
Matrix Spike (B003963-MS1)		**Source: 8031412-01**		Prepared & Analyzed: 03/18/08						
1,1-Dichloroethene (1,1-DCE)	25.3	1.0	µg/L	25.0	ND	101	70-130			
Benzene	26.6	0.50	µg/L	25.0	ND	106	70-130			
Trichloroethene (TCE)	24.8	1.0	µg/L	25.0	ND	99	70-130			
Toluene	26.8	0.50	µg/L	25.0	ND	107	70-130			
Chlorobenzene	24.8	1.0	µg/L	25.0	ND	99	70-130			
Surrogate: Dibromofluoromethane	*17.2*		*µg/L*	*20.0*		*86*	*70-130*			
Surrogate: Toluene-d8	*21.7*		*µg/L*	*20.0*		*109*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.2*		*µg/L*	*20.0*		*96*	*70-130*			
Matrix Spike Dup (B003963-MSD1)		**Source: 8031412-01**		Prepared & Analyzed: 03/18/08						
1,1-Dichloroethene (1,1-DCE)	27.1	1.0	µg/L	25.0	ND	109	70-130	7	20	
Benzene	26.7	0.50	µg/L	25.0	ND	107	70-130	0.6	20	
Trichloroethene (TCE)	25.0	1.0	µg/L	25.0	ND	100	70-130	1	20	
Toluene	28.4	0.50	µg/L	25.0	ND	114	70-130	6	20	
Chlorobenzene	24.2	1.0	µg/L	25.0	ND	97	70-130	2	20	
Surrogate: Dibromofluoromethane	*20.6*		*µg/L*	*20.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*22.9*		*µg/L*	*20.0*		*114*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*19.7*		*µg/L*	*20.0*		*99*	*70-130*			

Notes and Definitions

RDL	Reporting Detection Limit
ND	Analyte NOT DETECTED at or above the reporting detection limit (RDL)
RPD	Relative Percent Difference
NR	Not Reported

Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128
Fax (707) 769-8093

CHAIN OF CUSTODY

Lab Project Number: 8032819
Client's Project Name: Stop-N-Save #108
Client's Project Number: STS08.001

GeoTracker EDF: X Yes No
Global ID: T0600183405

CLIENT INFORMATION

Company Name: Apex Envirotech, Inc.
Address: 11244 Pyrites Wy.
Gold River, CA 95670
Contact: Jennifer Worsley
Phone #: 916-851-0174
Fax #: 916-851-0177
e-mail: jennifer@apexenvirotech.com

TURNAROUND TIME (check one)

Same Day ____
48 Hours ____ 24 Hours ____
5 Days X Normal ____

Page 1 of 1

ANALYSIS

Item	Client Sample ID	ALT ID	Date Sampled	Time	Matrix	# Cont.	Presv. Y/N	TPHg 8015 C6-C1	BTEX 8260	5 oxygenates 8260	lead scavengers									Comments	Lab Sample #
																				8032819	
1	STMW-1	STMW-1	3-27-08	1420	water	3	Y	X	X	X	X									0.50 ppb DL for	-01
2	STMW-2	STMW-2	↓	1410	water	3	Y	X	X	X	X									BTEX. Xylenes	-02
3	STMW-3	STMW-3	↓	1400	water	3	Y	X	X	X	X									can be 1.0ppb	-03
4																					
5																					
6																					
7																					
8																					
9																					
10																					

SIGNATURES

Sampled By: Vince Blackwood

Relinquished By: Vince Blackwood
Signature
3-27-08 1730
Date Time

Received By:
Signature
3/28/08 1115
Date Time