DB #471

PS

Department of Toxic Substances Control

700 Heinz Avenue, Suite 200
Berkeley, California 94710-2721

Alan C. Lloyd, Ph.D.
Agency Secretary
Cal/EPA

Arnold Schwarzenegger
Governor

SAMPLING REPORT

Persiva Corporation dba Valley Cleaners

224 Rickenbacker Circle
Livermore, California 94550

Report Completed By: Robert Aragon, P.E., MS

Sampling Date: August 10, 2005

Report Date: January 9, 2006

I. PURPOSE AND SUMMARY

The Livermore-Pleasanton Fire Department requested the assistance of The Department of Toxic Substances Control's (DTSC) Task Force Support and Special Investigations Branch (TFS/SIB) in their investigation of Persiva Corporation, dba Valley Cleaners. Valley Cleaners is a closed commercial laundry in Livermore, California. Abandoned waste on the property includes drums of Cyclopentasiloxane and Silicone Siloxane.

We took nine samples from drums and two tanks. The samples were analyzed for pH (corrosivity) and ignitability. All of the samples were non-hazardous.

II. REPRESENTATIVES PRESENT

Livermore-Pleasanton Fire Department:
Paul Smith, *Hazardous Materials Inspector*

Alameda County District Attorney's Office:
Hansen Pang, Inspector

DTSC, TFS/SIB:
Robert Aragon, Senior Hazardous Substances Engineer

III. SAMPLING

August 10, 2005

Mr. Pang and I arrived on site where we met Mr. Smith. There were no owners or employees on site. We received prior permission to enter the site from an Inspection Warrant dated August 4, 2005. Mr. Smith had a key to a sliding gate in the back of the property but we found the gate unlocked.

The site has a large open back area that is fenced and paved. We observed a lot of debris, old carpets, hangers, mechanical equipment and an old truck. There were 25 sixteen-gallon drums of Cyclopentasiloxane and Silicone Siloxane in the fenced area. We took our first three samples from these drums. The building contains dry cleaning and ironing machines. There is a utility room inside the building where we took the two tank samples. There is a covered shed outside of the fenced area that contained six 55-gallon drums and some containers of lint. We took four samples from the 55-gallon drums.

I took all of the samples by using clean new glass coliwassas. I used new clean 16-ounce pre-labeled glass jars with Teflon lids. I put evidence tape around all of the samples and then put them in a cooler in the DTSC sampling truck.

I took 114 photographs of the site. They show more detail about the labels on the containers and inside the building but they are not included here.

Outside Fenced Area – Samples MVC01 through MVC03

Photos no. 1 through 4 show the debris and drums in the outside fenced area. There were 25 sixteen-gallon containers in the area. Four drums were together on a wooden pallet (photo no. 3) and 21 other drums were together on wooden pallets (photo no. 4).

Sample MVC01 was taken from the drum in the front right side of photo no. 3. It was a clear liquid. The label on the drum indicating it contains Cyclopentasiloxane is shown in photo no. 5. The sample with the evidence tape around it is shown in photo no. 6.

Sample MVC02 was taken from the drum stacked on top of another drum, shown in the upper left hand corner of photo no. 4. The drums were stacked two high so we put the drum on the ground to take the sample. It is shown again in photo no. 7. It was labeled Silicone Siloxane. One of the Silicone Siloxane labels is shown in photo no. 8. The sample was also a clear liquid. I put evidence tape around it and took photo no. 9.

We moved the drums around so we could see the labels. We sorted them into two sections. We moved the 8 drums labeled Cyclopentasiloxane to the left with the other four on the wooden pallet (photo no. 10) and the 13 drums labeled Silicone Siloxane to the right (photo no. 11). We took one more sample from a drum labeled Cyclopentasiloxane. Sample MVC03 was taken from the drum in the right side of the

middle row shown in photo no. 10. It was a clear liquid. I took photo no. 12 showing the evidence tape around the sample.

Photo no. 1: The outside fenced area.

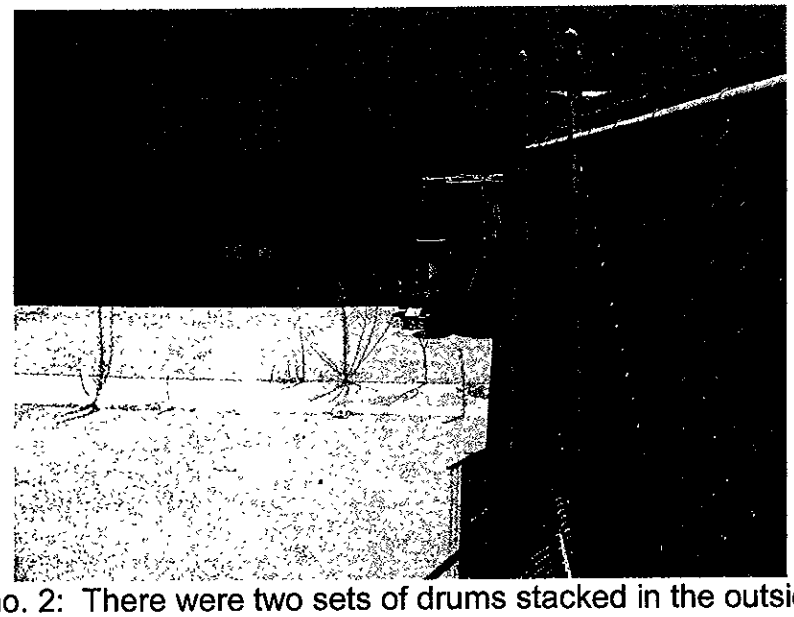

Photo no. 2: There were two sets of drums stacked in the outside area.

Photo no. 3: Four drums of Cyclopentasiloxane.
Sample MVC01 was taken from the drum in the front row, on the right.

Photo no. 4: Twenty-one sixteen-gallon drums in the outside area.
Sample MVC02 was taken from the drum in the upper left corner.

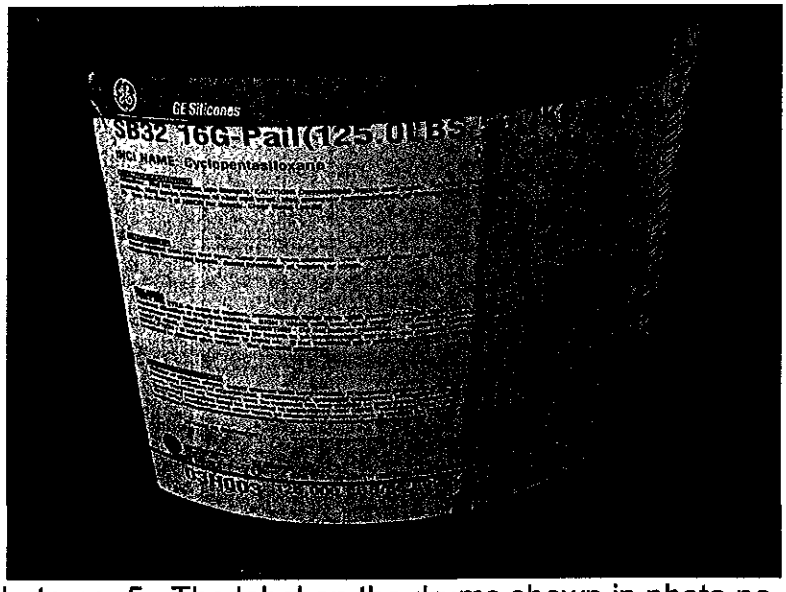

Photo no. 5: The label on the drums shown in photo no. 3 Indicates they contain Cyclopentasiloxane.

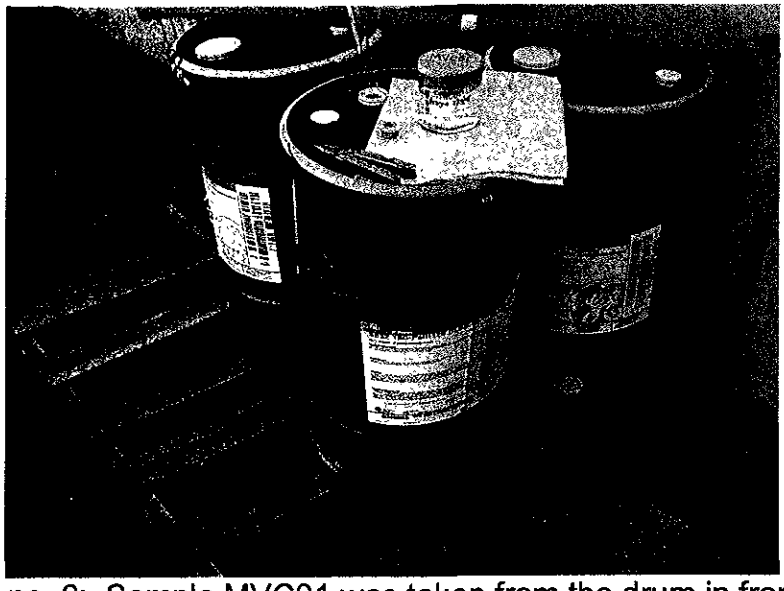

Photo no. 6: Sample MVC01 was taken from the drum in front with the glass coliwassa sticking out of the bung hole of the drum.

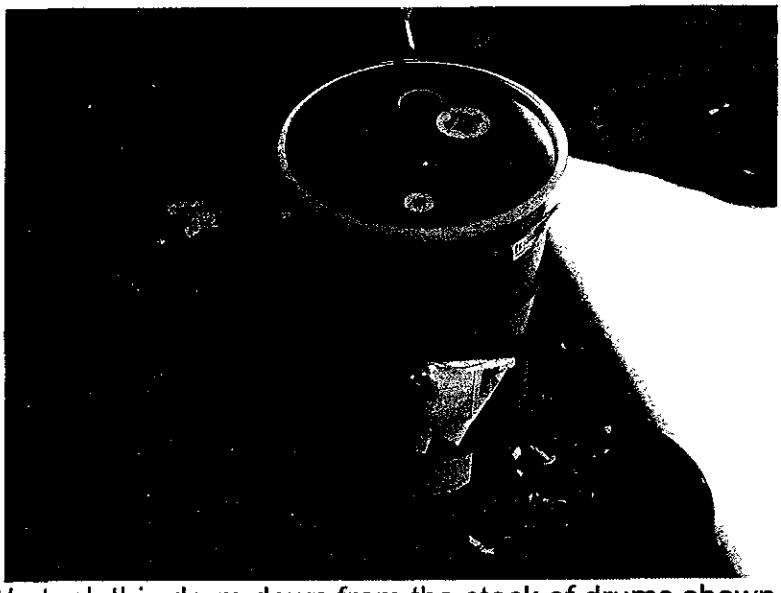

Photo no. 7: We took this drum down from the stack of drums shown in photo no. 4. Sample MVC02 was taken from this drum that was labeled Silicone Siloxane.

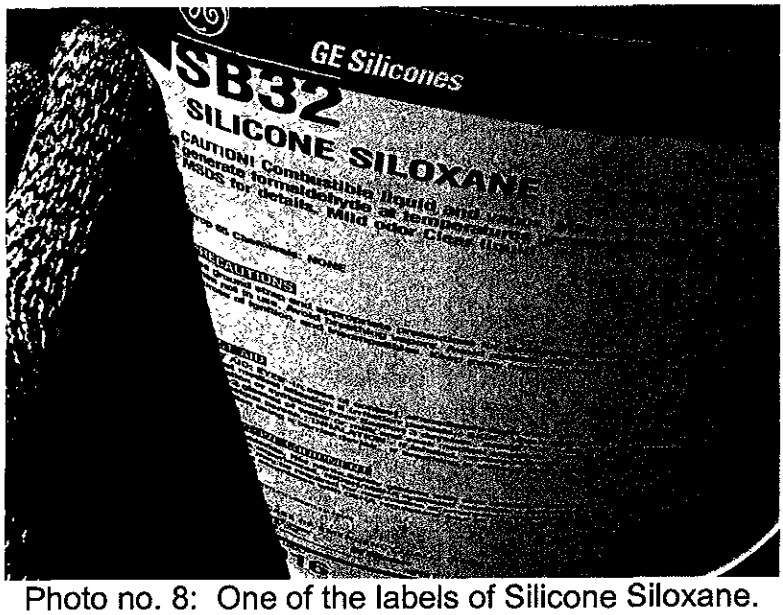

Photo no. 8: One of the labels of Silicone Siloxane.

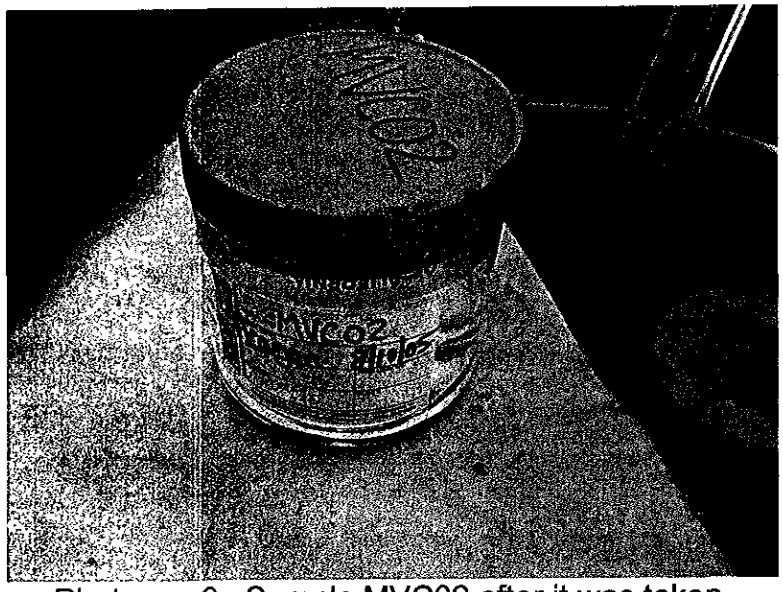

Photo no. 9: Sample MVC02 after it was taken.

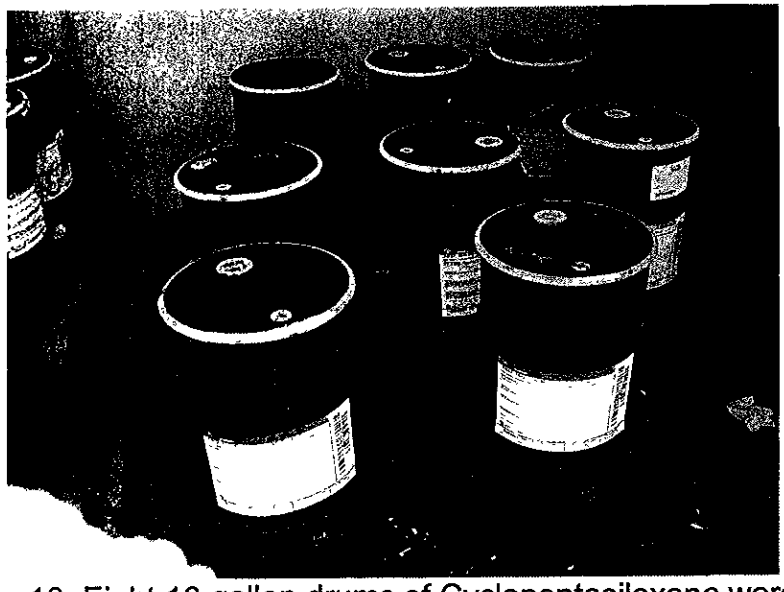

Photo no. 10: Eight 16-gallon drums of Cyclopentasiloxane were moved over with the other four drums. Sample MVC03 was taken from the drum in the middle row, on the right.

Photo no. 11: Thirteen 16-gallon drums labeled Silicone Siloxane.

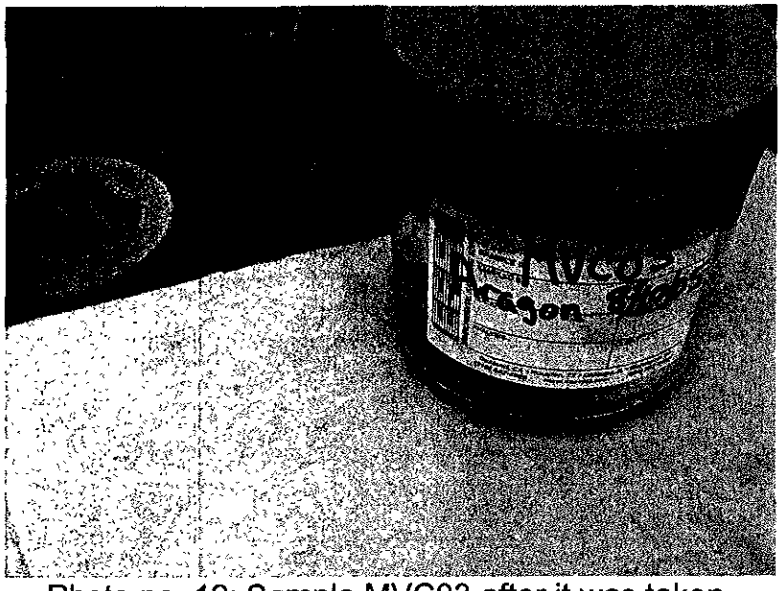

Photo no. 12: Sample MVC03 after it was taken.

Inside the Utility Room – Samples MVC04 and MVC05

There were two tanks inside the utility room that contained liquids. The blue poly tank and black elevated tank are shown in photo no. 13. The black tank was some kind of process tank that had a lot of pipes connected to it. Sample MVC04 was taken from the black tank. It was a rust colored liquid and it is shown in photo no. 14. Sample MVC05 was taken from the blue poly tank. The blue tank appeared to be a chemical feed tank. It contained a clear liquid. Sample MVC05 is shown in photo no. 15. I put evidence tape around the lids of the jars and put them into the DTSC sampling truck.

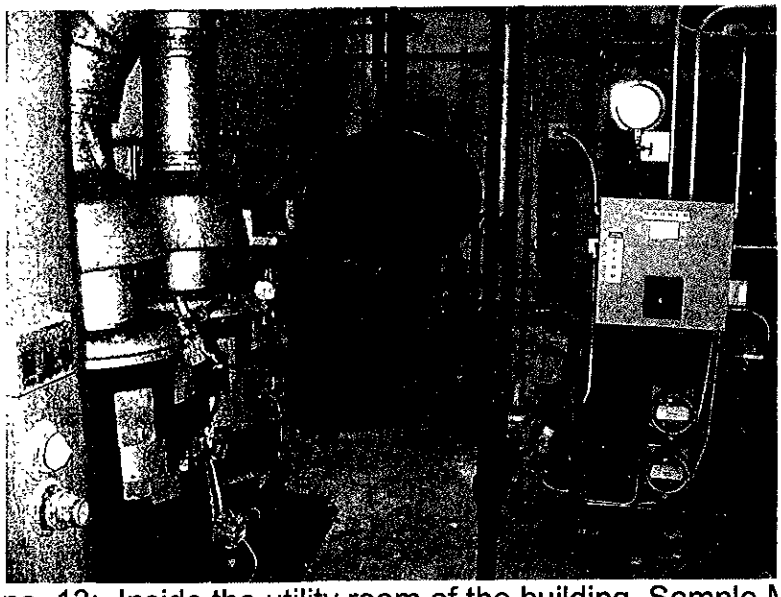

Photo no. 13: Inside the utility room of the building. Sample MVC04 was taken from the black elevated tank in the back while sample MVC05 was taken from the blue tank in front of it.

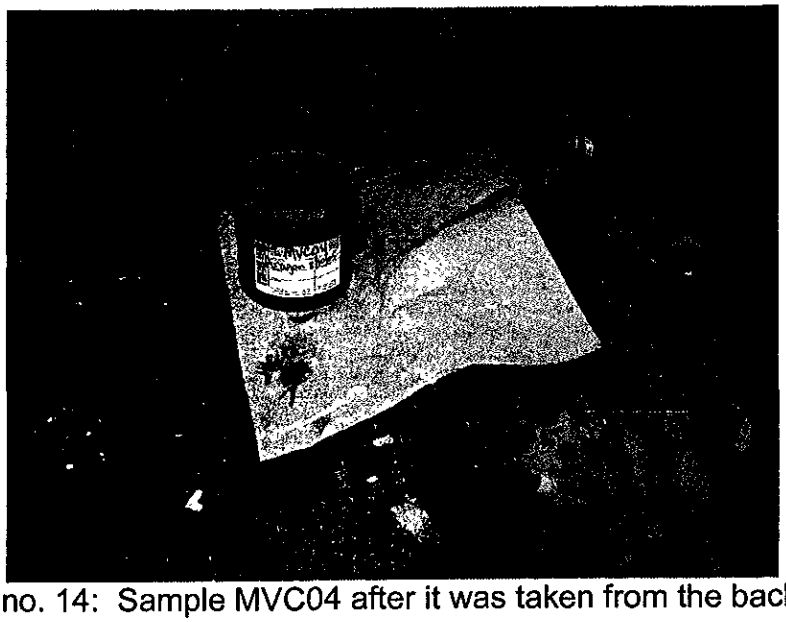

Photo no. 14: Sample MVC04 after it was taken from the back tank.

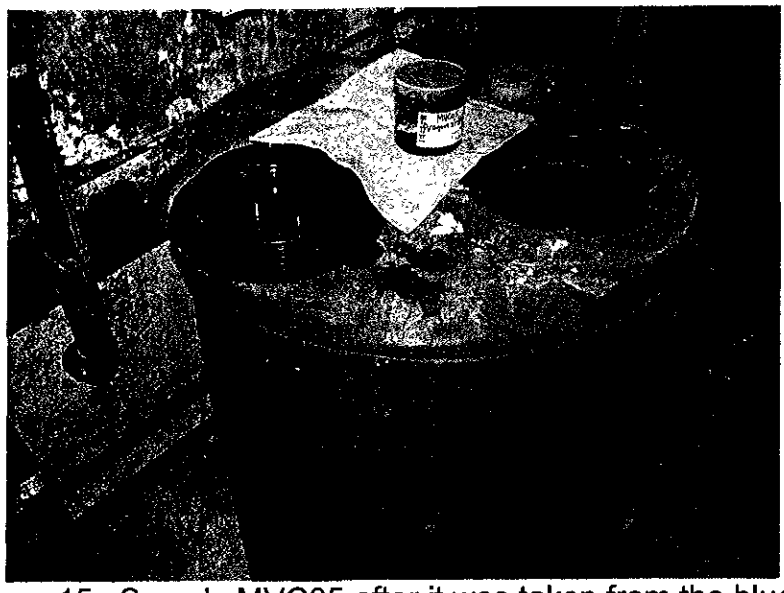

Photo no. 15: Sample MVC05 after it was taken from the blue tank.

Storage Shed Outside of the Fenced Area – Sample MVC06 through MVC09

There is an enclosure outside of the fenced area that may have been a dumpster enclosure at one time. It contained six 55-gallon drums and some containers of lint (photo no. 16). The area was not locked and there was access to it from the adjacent businesses. The waste in the enclosure appeared to be the dry cleaning waste similar to the containers inside the fenced area.

We took four samples from the 55-gallon metal drums. Sample MVC06 was taken from the black metal drum in the middle of the back row. The drum had a label on it that indicates it held Notox, CAS64742-48-9, aliphatic hydrocarbons. The drum contained a clear liquid. Sample MVC07 was taken from the blue metal drum on the right side of the back row. The label on the drum indicated it held dry cleaning solvent. It was also a clear liquid. Sample MVC08 was taken from the black metal drum in the middle of the three drums along the right side of the enclosure. The label on the drum indicated it held Cyclopentasiloxane. Sample MVC09 was taken from the grey and red metal drum in the front of the three drums along the right side of the enclosure. The label on the drum indicates it held dry cleaning waste. The samples are shown in photos no. 17 through 20 with the evidence tape around them.

Photo no. 16: The drums and containers inside the enclosure located outside of the fenced area. Samples MVC06 through MVC09 were taken from the 55-gallon drums.

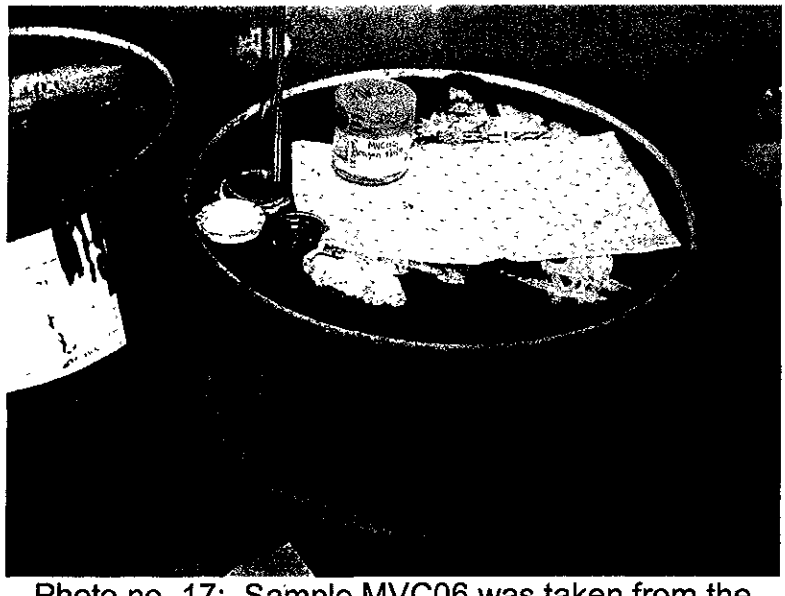

Photo no. 17: Sample MVC06 was taken from the black drum in the middle of the back row.

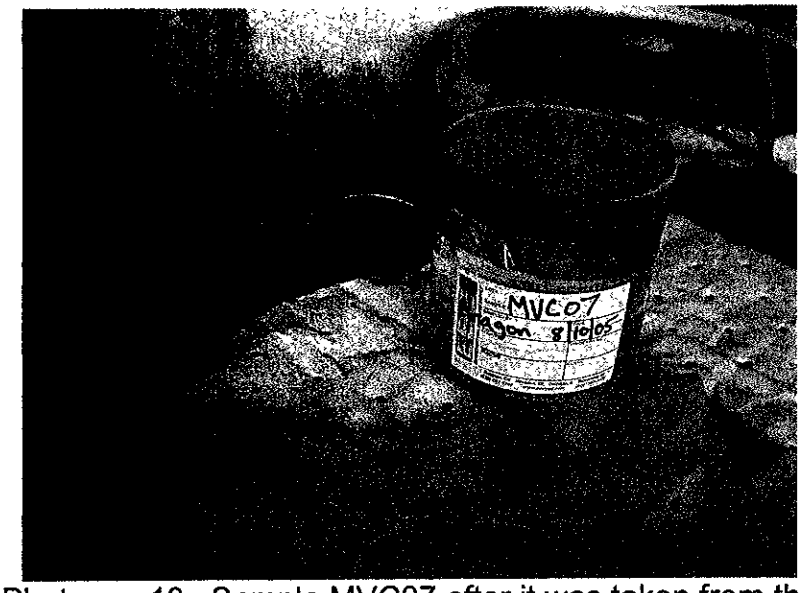

Photo no. 18: Sample MVC07 after it was taken from the blue drum on the right side of the back row.

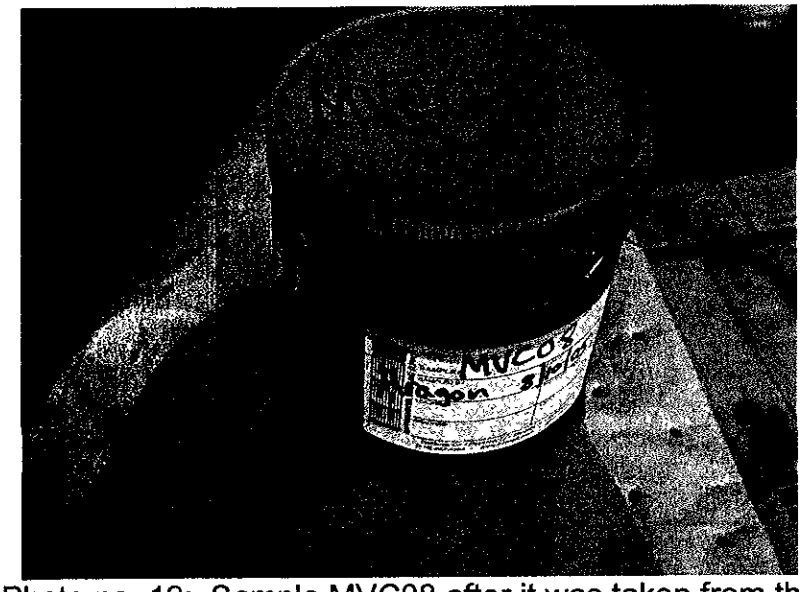

Photo no. 19: Sample MVC08 after it was taken from the black drum in the middle row of the right side.

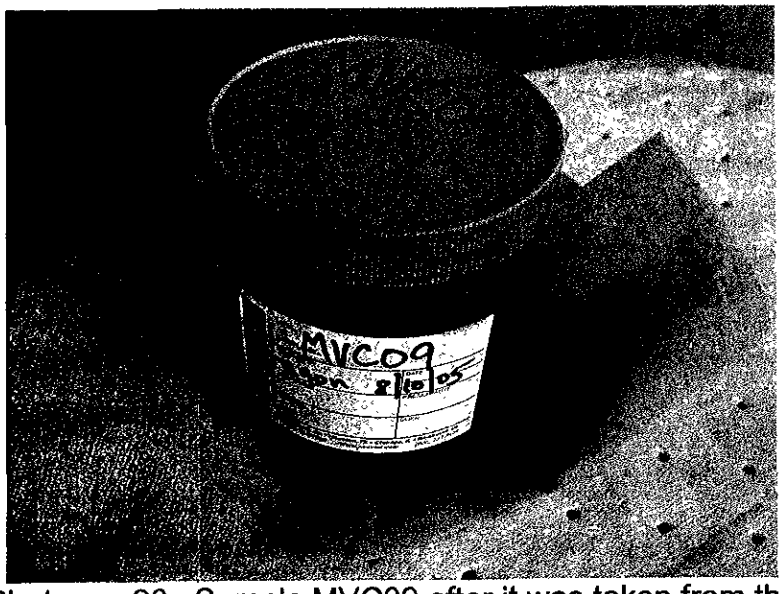

Photo no. 20: Sample MVC09 after it was taken from the grey and red drum in the front of the right side.

We put the samples in the cooler and locked them in the DTSC sampling truck. I brought the samples to DTSC's Hazardous Materials Laboratory (HML) in Berkeley on August 11, 2005. I filled out the Hazardous Materials Sample Analysis Request and Chain of Custody Form and signed line 18.a. (Attachment A). Mr. Denesh Chand took custody of the samples at HML and signed line 18.b.

IV. ANALYTICAL RESULTS HAZARDOUS WASTE DETERMINATION

I requested analysis for pH (corrosivity) and ignitability. The ignitability results are dated August 22, 2005 while the pH results are dated August 23, 2005 (Attachment B). The results indicate the ignitability of all the samples is less than 140° Fahrenheit and the pH ranges from 4.3 to 9.94. Based on these results the contents of the sampled containers is not a hazardous waste due to pH or ignitability.

V. ATTACHMENTS

A. Hazardous Materials Sample Analysis Request and Chain of Custody Form (2 pages).
B. Analytical Reports from HML. Ignitability results dated August 22, 2005 (1 page) and pH results dated August 23, 2005 (2 pages).

R. Aragon

January 9, 2006
Date

Robert A. Aragon, P.E., MS
Senior Hazardous Substances Engineer
Task Force Support/Special Investigations Branch

ATTACMENT A

Hazardous Materials Sample Analysis Request
and Chain of Custody Form (2 pages)

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Hazardous Materials Laboratories

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

1. Authorization Number: HMU577

HML No. To

2. Page 1 of 2

3. REQUESTOR: Robert Aragon
4. Phone (510) 540-3904
5. ADDRESS (To Receive Results)
6. FAX (510) 540-3891

700 Heinz Avenue
Berkeley, California 94710

7. TAT Level: (check one) ☐ *1 ☒ 2 ☐ 3 ☐ 4

* Unit Chief's Signature

8. DATE SAMPLED: AUGUST 10, 2005

9. Codes (fill in all applicable codes)

a. Office	0	2					
b. INDEX	4	0	4	0			
c. PCA	3	6	2	1	1		
d. MPC							
e. SITE							
f. County	0	1					

10. ACTIVITY: ☐ SCD ☐ SRPD ☐ CIB ☐ SMB ☐ FPB ☐ SPPT ☒ Others

11. SAMPLING LOCATION: a. EPA ID No. CAR000006826 2

b. Site: Metro Valley Cleaners

c. Address: 224 Rickenbacker Circle, Livermore 94550
(Number / Street / City / ZIP)

12. SAMPLES:

a. ID	b. Collector's No.	c. HML No.	Sample d. Type	Container e. Type	f. Size	g. Field Information
A	MVC01		liquid	Glass	16-oz	Cyclopentasiloxane
B	MVC02		liquid	"	"	Silicone Siloxane
C	MVC03		liquid	"	"	Cyclopentasiloxane
D	MVC04		liquid	"	"	Dry Cleaning Waste
E	MVC05		liquid	"	"	Dry Cleaning Waste
F	MVC06		liquid	"	"	NOTEX CAS64742-48-9

13. ANALYSIS REQUESTED: (X desired analysis and enter I.Ds from 12.a.) (Aliphatic Hydrocarbon)

INORGANIC ANALYSIS	Sample(s) ID
☒ pH	A-F
☐ Metals Scan (6010)	
☐ Metal(s) Specific ☐☐☐	
☐ WET	
☐ Cyanides	
☐ (others, write in)	
☐ (others, write in)	

TCLP Analysis (only if necessary) ☐ (do TCLP regardless) ☐	
☐ Metals	
☐ Mercury	
☐ Volatiles	
☐ Semivolatiles	
☐ (others, write in)	

ORGANIC ANALYSIS	Sample(s) ID
☐ CL-Pesticides (8081)	
☐ OP-Pesticides (8141)	
☐ PCBs (8082)	
☐ G R O (8015B)	
☐ D R O / Motor Oil / Both (circle one)	
☐ n-Hexane Extractables (1664)	
☒ Flash Point (1020)	A-F
☐ VOCs Including BTEX (8260)	
☐ VOCs - LO Level (5035)	
☐ VOCs - HI Level (5035)	
☐ SVOCs (8270)	
☐ PAHs (8270)	
☐ (others, write in)	

14. ANALYSIS OBJECTIVE: (check a box)
☒ Waste Characterization
☐ Drinking H_2O Standards (applies to DW only)
☐ Treatment Standards
☐ Others (contact Lab supervisors first)

15. DETECTION LIMIT REQUIREMENTS: (specify if known and contact lab)

16. SUPPLEMENTAL REQUESTS

Initials
Date

17. LAB REMARKS:

18. CHAIN OF CUSTODY:

	Signature(s)	Name(s) / Title (s)	Inclusive Dates of Custody
a.	R. Aragon	R. Aragon / Sr. HSE	8/10/05 to 8/11/05
b.	[signature]	Dinesh Chand	8/11/05 to
c.			to
d.			to

State of California
California Environmental Protection Agency

Department of Toxic Substances Control
Hazardous Materials Laboratories

HAZARDOUS MATERIALS SAMPLE ANALYSIS REQUEST

1. Authorization Number: HMU577

HML No. / To

2. Page 2 of 2

3. REQUESTOR: Robert Aragon
4. Phone (510) 540-3904
5. ADDRESS (To Receive Results)
6. FAX (510) 540-3891

700 Heinz Avenue
Berkeley, California 94710

7. TAT Level: (check one) [ ] *1 [X] 2 [ ] 3 [ ] 4

* Unit Chief's Signature

8. DATE SAMPLED: AUGUST 10, 2005

9. Codes (fill in all applicable codes)

a. Office	02
b. INDEX	4040
c. PCA	36211
d. MPC	
e. SITE	
f. County	01

10. ACTIVITY: [ ] SCD [ ] SRPD [ ] CIB [ ] SMB [ ] FPB [ ] SPPT [X] Others

11. SAMPLING LOCATION: a. EPA ID No. CAR000068262

b. Site: Metro Valley Cleaners

c. Address: 224 Rickenbacker Circle, Livermore 94550
(Number / Street / City / ZIP)

12. SAMPLES:

a. ID	b. Collector's No.	c. HML No.	Sample d. Type	Container e. Type	f. Size	g. Field Information
A	MVC07		liquid	Glass	16-oz	Dry Cleaning Solvent
B	MVC08		liquid	Glass	16-oz	Cyclopentasiloxane (541 02-6)
C	MVC09		liquid	Glass	16-oz	Dry Cleaning Waste
D						
E						
F						

13. ANALYSIS REQUESTED: (X desired analysis and enter I.Ds from 12.a.)

INORGANIC ANALYSIS	Sample(s) ID
[X] pH	A-C
[ ] Metals Scan (6010)	
[ ] Metal(s) Specific [ ][ ][ ]	
[ ] WET	
[ ] Cyanides	
[ ] (others, write in)	
[ ] (others, write in)	

ORGANIC ANALYSIS	Sample(s) ID
[ ] CL-Pesticides (8081)	
[ ] OP-Pesticides (8141)	
[ ] PCBs (8082)	
[ ] G R O (8015B)	
[ ] D R O / Motor Oil / Both (circle one)	
[ ] n-Hexane Extractables (1664)	
[X] Flash Point (1020)	A-C
[ ] VOCs Including BTEX (8260)	
[ ] VOCs - LO Level (5035)	
[ ] VOCs - HI Level (5035)	
[ ] SVOCs (8270)	
[ ] PAHs (8270)	
[ ] (others, write in)	

TCLP Analysis: [ ] (only if necessary) [ ] (do TCLP regardless)

[ ] Metals	
[ ] Mercury	
[ ] Volatiles	
[ ] Semivolatiles	
[ ] (others, write in)	

14. ANALYSIS OBJECTIVE: (check a box)
[X] Waste Characterization
[ ] Drinking H_2O Standards (applies to DW only)
[ ] Treatment Standards
[ ] Others (contact Lab supervisors first)

15. DETECTION LIMIT REQUIREMENTS: (specify if known and contact lab)

16. SUPPLEMENTAL REQUESTS

Initials
Date

17. LAB REMARKS:

18. CHAIN OF CUSTODY:

	Signature(s)	Name(s) / Title (s)	Inclusive Dates of Custody
a.	E. Aragon	R. Aragon / Sr. HSE	8/10/05 to 8/11/05
b.	D Chand	Dinesh Chand C-1	8/11/05 to
c.			to
d.			to

COC

ATTACHMENT B

Analytical Reports from HML

Ignitability Results dated August 22, 2005 (1 page)

pH Results dated August 23, 2005 (2 pages)

California Department of Toxic Substances Control
Hazardous Materials Laboratory
700 Heinz Avenue Suite 100; Berkeley, CA 94710
Phone : (510) 540-3003
LABORATORY REPORT FOR ... IGNITIBILITY

HML # : AP 00174
to: AP 00182
Auth. No.: HMV 5777

Requestor's Name: Robert Aragon
Requestor's Addres: 700 Heinz Avenue
Berkeley, California 94710
Sampling Location: Metro Valley Cleaners
224 Rickenbacker Circle
Livermore, CA 94550

Date Collected: 08/10/05
Date Received by Lab.: 08/11/05
Date Analyzed: 08/12/05

Analytical Method: EPA 1020B

Procedure: Two milliliter of sample is introduced by means of syringe through a leak proof entry port into the tightly closed Setaflash Rapid Tester for the determination of ignitibility (flash points) of organic liquids.

HML Number	Collector's Number	Matrix	RESULTS Degree Fahrenheit
AP 00174	MVC 01	Liquid	>140
AP 00175	MVC 02	Liquid	>140
AP 00176	MVC 03	Liquid	>140
AP 00177	MVC 04	Liquid	>140
AP 00178	MVC 05	Liquid	>140
AP 00179	MVC 06	Liquid	>140
AP 00180	MVC 07	Liquid	>140
AP 00181	MVC 08	Liquid	>140
AP 00182	MVC 09	Liquid	>140

NA = Not analyzed due to solid matrix.

Associated QC:

Replicate analysis performed on HML sample no.: AP 00174

Ignitibility			
Replicate #1	Replicate #2	Mean	RPD
>140	>140	>140	0.00

Reference Standard: p-Xylene [Expected Value 78 +/- 1]

Replicate #1	Replicate #2	Mean	RPD
78.0	78.0	78.0	0.00

RPD = relative % difference = absolute value of (repl. #1 - repl. #2)/mean x 100%

Analyst: Kuo-In Chang — Kuo-In Chang — 8-22-05

Supervisor: Jamail Garcha — Signature — 8/22/05 Date

ja/qpro/1020/AP00174.qpw

California Department of Toxic Substances Control
HAZARDOUS MATERIALS LABORATORY
700 Heinz Avenue, Suite 100, CA 94710, Ph.: (510) 540-3003

HML No.: AP00174
To: AP00182
Auth. No.: HMV5777

Page: 1
of: 2

Laboratory Analysis Report
For pH

Collector's Name: Robert Aragon
Collector's Address: 700 Heinz Avenue
Berkeley, CA 94710
Site or Location: Metro Valley Cleaners
Site Address: 224 Rickenbacker Circle
Livermore 94550

Date Collected: 8/10/2005
Date Received: 8/11/2005
Date Extracted: 8/15/2005
Date Analyzed: 8/15/2005

Analytical Procedure: EPA 9040B (for Liquid) and/or 9045C (for Solid)
pH was determined using Accumet pH meter 925 (Fisher Scientific)
calibrated with buffers 1.00, 4.00, 7.00, and 13.0.

HML Number	Collector's Sample No.	Sample Type	pH
AP00174	MVC01	Liquid	5.48
AP00175	MVC02	Liquid	6.54
AP00176	MVC03	Liquid	6.80
AP00177	MVC04	Liquid	8.27
AP00178	MVC05	Liquid	9.94
AP00179	MVC06	Liquid	7.87
AP00180	MVC07	Liquid	5.64
AP00181	MVC08	Liquid	4.30
AP00182	MVC09	Liquid	5.09

8/18/05
Kashyap Thakore — Date
Chemist

JS Garcha 8/23/05
Jarnail Garcha — Date
Supervisor

JH 8/23/05

California Department of Toxic Substances Control
HAZARDOUS MATERIALS LABORATORY
700 Heinz Avenue, Suite 100, CA 94710, Ph.: (510) 540-3003

HML No.: AP00174
To: AP00182
Auth. No.: HMV5777

Page: 2
of: 2

Laboratory Quality Control Report
For pH

Collector's Name: Robert Aragon
Collector's Address: 700 Heinz Avenue
Berkeley, CA 94710
Site or Location: Metro Valley Cleaners
Site Address: 224 Rickenbacker Circle
Livermore 94550

Date Collected: 8/10/2005
Date Received: 8/11/2005
Date Extracted: 8/15/2005
Date Analyzed: 8/15/2005

I. Calibration Standard File

Source	Lot No.	Expiration Date	Buffer Type	Buffer	mv Reading	Slope (%)
EMSci	41532742	Ampule	Liquid	1.00	351.90	-
EMSci	3340	Nov-05	Liquid	4.00	181.30	0.97900
EMSci	3340	Dec-05	Liquid	7.00	8.60	0.98980
EMSci	70228367	Ampule	Liquid	13.00	-331.50	0.97596

II. Laboratory Control Sample

Analyte	Source	Lot No.	Expir'n.	Result		Absolute
pH Buffer			Date	Expctd	Observed	Difference
8.00	VWR	3272	Sept 05	8.00	7.95	0.05

III. Laboratory Duplicate Sample Results

HML No.	Sample Type	Sample Result	Dupl. Result	Absolute Difference		
AP00178	Liquid	9.94	9.94	0		

Comments:

8/18/05

Kashyap Thakore Date
Chemist

JS Garcha 8/23/05

Jarnail Garcha Date
Supervisor