

PHIL-TITE

**Wilton, California
October 29-30, 2004**

APPENDIX III

STAFF REPORT BY MR. MICHAEL SAHLIN, SWRCB
FINAL ELD TEST
PHIL-TITE EVR PHASE I EO VR-101-D
October 29-30, 2005
Wilton Chevron
8995 Grant Line Road
Elk Grove (Wilton), CA

In Attendance:

Mr. Michael Sahlin – SWRCB
Mr. Vince Bunac – ARB
Mr. Roy Walker – Town & Country Construction
Mr. Nick Poynter – Praxair Services Inc.
Mr. Helio Diaz – Praxair Services Inc.
Mr. Matt Thomas – Shirley Environmental

This new UST facility is located on the Southeast corner of Grant Line and Wilton Roads. The facility is branded a Chevron, but is privately owned. On August 5, 2004, Mr. Vince Bunac witnessed the installation of the Phil-Tite spill buckets at the proper torque settings (see attached e-mail). On August 26, 2004, Shirley Environmental conducted a helium pre-test on the system. The pre-test revealed that the shear valves leaked at the dispensers. According to Mr. Roy Walker of Town & Country Construction, OPW came out and re-sealed all the leaking shear valves (see attached photos).

On October 29, 2004, Praxair Services Inc. (PSI) arrived on-site at 7:00 AM and started to set up their test equipment. At 8:00 AM, PSI introduced of Tracer “E” into the backfill to start the “Leak Simulation” phase of testing. PSI then began to set up for the gross helium test of the UST system. The helium test was completed with no detection of helium outside the UST system. At 12:30 PM, PSI inoculated the tanks with Tracer A and the tanks were pressurized to 0.5 pounds per square inch (psi). (Tanks at the facility include an 20,000-gallon 87 tank, a 10,000-gallon 92 tank, and a 10,000-gallon diesel tank. The product piping was inoculated with Tracer “W” and pressurized to 40 psi. The vent and vapor recovery piping, including the tank vents, were inoculated with Tracer “W” and pressurized to 0.5 psi. The leak simulation tracer was found in sufficient concentration to establish the Enhanced TracerTight® test (often referred to as ELD) timetable at 9 hours after inoculation of this UST facility. Air was blown throughout the secondary containment system and samples were collected per the standard operating procedures (SOPs) from the sumps, under-dispenser containment, and the secondary containment of the product, vent, and vapor piping. PSI left the facility at 6:30 PM. The only difficulty encountered at this facility was pulling the string and vinyl tubing through the horizontal sampling probe (HSP) piping, located in the product piping trench. Upon evaluation of the vent HSP piping, it was determined that the product piping was located within 10-feet of the vent HSP piping, which meets PSI’s SOP. (According to PSI’s third-party certification, the radius of influence of each probe is 10 feet.) At 2:00 PM on October 30, 2004 the rest of the HSPs were sampled and the facility passed the ELD test.

See attachments:

- (A) Photos of UST facility
- (B) Praxair Job Log for October 29, 30, 2004
- (C) August 5, 2004 e-mail from Mr. Vince Bunac, ARB

APPENDIX III

PHOTOS



SW looking NE



SE looking NW



West looking East through vent



Vent piping



South looking North at Tank Pit



SW looking NE



Diesel Fill



2 psi on vents







Diesel Fill, .5 psi



92 Fill, .5 psi

APPENDIX III

	
Shear Valves re-doped by manufacturer (OPW) to seal	
	
New Wayne Dispenser	Healy VP 1000 Assist Pump
	
Healy Nozzle F4404	HSP manhole in Tank Pit Area
	
Veeder Root TLS350	DW Brine Filled Interstitial Space & Sensor
	
Top of FE Petro Turbine	Turbine and ball valve assembly

PROJECT INFO

JOB Number	37561NC
SITE NAME	Chevon
	8995 Grant Line Road
	Elk Grove, California
	Roy Walker (town and Country)
	916-636-9500
CONTRACT CLIENT	Shirley
CLIENT ADDRESS	9595 Lucas Ranch Road
CLIENT CITY, STATE, ZIP	Rancho Cucamonga, CA
CLIENT CONTACT	April weems
CONTACT PHONE #	
TEST (Final, Pretest, Retest, Leak locate)	Final

MAKE SURE THAT YOUR SITE AND CLIENT INFO IS ACCURATE

DOUBLE CHECK WITH OFFICE IF UNSURE

ARRIVAL CHECK LIST

# Tanks	3
# Dispensers	6

TANK INFO

Tank Product	Volume	Empty/Water/Fuel
87	20,000	empty
91	10,000	empty
DSL	10,000	empty

PIPING INFO

	TYPE (Manufacture)	Helium / Vacuum
Product Lines	Smith	
	Smith	
Flex	fire-rated	
Spill Buckets	Spill-tight	
Shear Valves		
IF FINAL - Who Performed Pre-test!!		Shirley
UDC Dimension's -(length/depth/width)		
Sump Dimension's - (Diameter/Depth)		
TYPE - TANK INTERSTICIAL (Brine/ Empty)		

List Issues encountered on check list and how resolved:
(Contractor corrected, Reviewed by PM, Ect.)

Form Completed By:

Date:

NEW CONSTRUCTION ELD - JOB LOG SUMMARY

TYPE OF TEST (Pretest, Final, Leak locate, Retest) =		Final	Probe Install? (Yes/No)	NO
Job Number:	37561NC			
Client:	Shirley	Contact:	April weems	
Site Name:	Chevon	Phone:	0	
Site Address:	8995 Grant Line Road	Site Contact:	Roy Walker (town and Country)	
City, State:	Elk Grove, California	Site Phone:	916-636-9500	

Crew: Site Lead: Nick Poynter

Crew: Hello Diaz

	Start Date	Start Time	End Time	Total HRS	Billable Hrs	Initial
Start Date:	10-29-04	0700	1830	11.5	11.5	
Day Two Date:	10-30-04		1430	7	7	
Day Three Date:						
Day Four Date:						
Day Five Date:						

MAKE NOTES IF YOU HAVE ANY UNBILLABLE HOURS

Total Billable Hours	18.5	Total Detected Leaks	0
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TEST Complete	LINES			TANK			Tracer/He	Brine Start	Brine End
	Primary	Secondary	Vent	TS	FVRS	TI	Tank / Line	Start (in)	End (in)
87	Pass	N/A	Pass	Pass	Pass	Pass	A/W	N/A	N/A
91	Pass	N/A	Pass	Pass	Pass	Pass	A/W	N/A	N/A
DSL	Pass	N/A	Pass	Pass	N/A	Pass	A/W	N/A	N/A
0									
0									
VR / Vent	Pass	N/A							
UDCs -#		6 Pass							
HSP / PROBES - #	HSP	Pass	# Samples	21					

COMMENTS: (Leaks, unbillable hours, site spacific info)

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Form Completed By: Nick Poynter Date: 10-30-04 State Lic # 04-1686

Hours Approved By: _____ Signature: _____ Date: _____

QA Review By: _____ Date: _____ Time: _____

Daily Activity Log			Job#	37561NC			
Site:	Chevron	Client:	Shirley	Client Contact	April weems		
Site Address:	8995 Grant Line Road		Elk Grove, California	Contact #	0		
TEST DATES :		10-29/10-30	# DAYS=	2	Log Completed By: Nick Poynter		
Date:	Leak/Pass	Time	ITEM	Test	Tested	Sample ID	Description (How collected, Volume Collected, Complete Notes)
10-29-04	0	0700	Note	Note	Note	Note	Arrived on site.
10-29-04	0	715	Note	Note	Note	Note	Difficulty entering area because of recent rain.
10-29-04	0	0730	Note	Note	Note	Note	Brought trailer on site and began conducting site survey.
10-29-04	0	0800	leak-sim	Inoc	Inoc	Inoc	30 ccs E438 purged into vent line hsp @ 15'.
10-29-04	0	0745	Note	Note	Note	Note	Began setting up guages, fittings and secondary whips.
10-29-04	0	0956	TK	BU	1	Inoc	All 3 tanks pressurized to 0.5 psi TRC-P and sumps covered.
10-29-04	0	1007	PL	BU	1	Inoc	All 3 product lines pressurized to 50 psi TRC P
10-29-04	0	1020	VR	BU	1	VR - Confirm	VR line pressurized to 5 psi. VR purged at vent riser and remaining dispensers until TRC-P confirmed.
10-29-04	0	1040	PL	BU	1	PL-Confirm	TRC-P confirmed throughout the system. All sumps covered.
10-29-04	0	1105	Note	Note	Note	Note	tester- vacuum and calibration validated.
10-29-04	Pass	1120	UDC	BU	1	UDC1-2	TRC-P
	Pass	1121	UDC	BU	1	Udc-3-4	TRC-P
	Pass	1122	UDC	BU	1	UDC5-6	TRC-P
	Pass	1123	UDC	BU	1	UDC7-8	TRC-P
	Pass	1124	UDC	BU	1	UDC9-10	TRC-P
	Pass	1125	UDC	BU	1	UDC11-12	TRC-P
	Pass	1150	87 Tank	BU	1	87FVRS	TRC-P
	Pass	11:52	87 Tank	BU	1	87TS	TRC-P
	Pass	11:54	91 Tank	BU	1	91FVRS	TRC-P
	Pass	11:56	91 Tank	BU	1	91TS	TRC-P
	Pass	11:58	DSL Tank	BU	1	DSLFS	TRC-P
	3	12:00	DSL Tank	BU	1	DSLTS	TRC-P
	0	12:15	87TK	Final	1	Inoc	Inoc - A874
	0	12:17	91TK	Final	1	Inoc	Inoc - A874
10-29-04	0	1221	DSLTK	Final	1	Inoc	Tanks inoculated with Tracer A874. 87=2 cans.
10-29-04	0	1230	Note	Note	Note	Note	Transfilling W cylinder.
10-29-04	0	13:00	87PL	Final	1	Inoc	Product lines vacuumed to 30" and pressurized to 40 psi with Tracer W.

Daily Activity Log				Job#	37561NC		
Site:	Chevon		Client:	Shirley		Client Contact	April weems
Site Address:	8995 Grant Line Road		Elk Grove, California		Contact #	0	
TEST DATES :		10-29/10-30	# DAYS=	2	Log Completed By: Nick Poynter		
10-29-04	0	13:05	91PL	Final	1	Inoc	Product lines vacuumed to 30" and pressurized to 40 psi with Tracer W.
10-29-04	0	13:10	DSLPL	Final	1	Inoc	Product lines vacuumed to 30" and pressurized to 40 psi with Tracer W.
10-29-04	0	1315	VR	Final	1	Inoc	VR line pressurized to 5 psi and purged until tracer is throughout system. Repressurized to 0.5 psi.
10-29-04	3	1425	UDC	1,2	1	UDC1-2	Tracer W
	3	1432	UDC	3,4	1	UDC3-4	Tracer W
	3	1437	UDC	5,6	1	UDC5-6	Tracer W
	3	1442	UDC	7,8	1	UDC7-8	Tracer W
	3	1449	UDC	9,10	1	UDC9-10	Tracer W
	3	1455	UDC	11,12	1	UDC11-12	Tracer W
	0	1502	leak-sim	South Loop R @25'	LS	HSP-SL -25ft	Tracer E
	0	1512	leak-sim	South Loop L@25'	LS	HSP-SL -25ft	Tracer E
10-29-04	0	1530	leak-sim	North Loop R @25'	LS	hSP-NL -25ft	Tracer E (leak sim clock set at 9 hours)
10-29-04	0	1521	leak-sim	North Loop L @25'	LS	hSP-NL -25ft	Tracer E
	3	1540	87TK	Final	FVRS	87FVRS	Tracers A and W
	3	1545	87TK	Final	TS	87TS	Tracers A and W
	3	1549	91TK	Final	FVS	91fvs	Tracers A and W
	3	1553	91TK	Final	TS	91fvs	Tracers A and W
	3	1556	DSLTK	Final	FS	DSLFS	Tracers A and W
	3	1601	DSLTK	Final	TS	DSLTS	Tracers A and W
10-29-04	3	1629	87PL	1	UDC	87TS-UDC1-2	Tracer W (series blown from turbine sump)
10-29-04	3	1632	87PL	1	UDC	87TS-Disp 3,4	Tracer W
	3	1636	87 PL	1	UDC	87TS-Disp 5,6	Tracer W
	3	1644	87 PL	1	UDC	87TS-Disp 7,8	Tracer W
	3	1647	87 PL	1	UDC	87TSDisp 9,10	Tracer W
	3	1651	87 PL	1	UDC	87TS-Disp 11,12	Tracer W
10-29-04	3	1659	91 PI	1	UDC	91TS-Disp 1,2	Tracer W (series blown from turbine sump)
10-29-04	3	1702	91 PI	1	UDC	91TS-Disp 3,4	Tracer W
	3	1709	91 PI	1	UDC	91TS-Disp 5,6	Tracer W
	3	1715	91 PI	1	UDC	91TS-Disp 7,8	Tracer W
	3	1718	91 PI	1	UDC	91TS-Disp 9,10	Tracer W
	3	1722	91 PI	1	UDC	91TS-Disp 11,12	Tracer W
	3	1735	DsL PL	1	UDC	DSLFS-Disp 3,4	Tracer W
	3	1738	DsL PL	1	UDC	DSLFS-Disp 9,10	tracer W

Daily Activity Log			Job#		37561NC		
Site:	Chevon	Client:	Shirley		Client Contact	April weems	
Site Address:	8995 Grant Line Road		Elk Grove, California		Contact #	0	
	TEST DATES :	10-29/10-30	# DAYS=	2	Log Completed By: Nick Poynter		
10-29-04	0	1750	Note	Note	Note	Note	Unable to continue testing because of malfunctioning compressor.
10-29-04	0	1830	Note	Note	Note	Note	Left site.
10-30-04	10-30-04	0730					Arrived on site.
10-30-04	3	0906	VR	1	Final	87FVRS-Disp 1,2	Tracer W (series blown from 87 FVS)
10-30-04	3	0909	VR	1	Final	87FVRSDisp 3,4	Tracer W
10-30-04	3	0914	VR	1	Final	87FVRS-Disp 5,6	Tracer W
10-30-04	3	0917	VR	1	Final	87FVRS-Disp 7,8	Tracer W
10-30-04	3	0922	VR	1	Final	87FVRS-Disp 9,10	Tracer W
10-30-04	3	0927	VR	1	Final	87FVRS-Disp 11,12	Tracer W
10-30-04	3	0931	VR	1	Final	87FVRS-91 FVS	Tracer W
10-30-04	3	0938	87 Vent	1	Final	87FVRS-87VENT	Tracer W
10-30-04	3	0943	91 Vent	1	Final	81FVRS-91VENT	Tracer W
10-30-04	3	0947	DSL Vent	1	Final	DSL F-DSLVENT	Tracer W
10-30-04	3	0950	UDC	1	Final	VENT UDC	Tracer W
10-30-04	3	1005	HSP	87 Tank Loop	Final	4 samples total - 80ft	Tracers A and W - Samples collected 4 @ 5ft intervals
10-30-04	3	1138	HSP	Split Tank Loop	Final	5 samples total - 90ft	Tracers A and W - Samples collected 4 @ 5ft intervals
10-30-04	3	1340	HSP	Tank-Disp 3/4	Final	4- samples - 50ft	Tracers A and W
10-30-04	3	1320	HSP	Disp 3/4-5/6	Final	4 - sample 70ft	Tracers A and W
10-30-04	3	1300	HSP	Disp 5/6-11/12	Final	4 - samples 80ft	Tracers A and W
10-30-04	3	1345	87 Tank	interstitial	Final	87TI	Tracer A
10-30-04	3	1350	91 tank	interstitial	Final	91TI	Tracer A
10-30-04	3	1355	DSL Tank	interstitial	Final	DSLTI	Tracer A
10-30-04	0		Note	Note	Note		Note: Difficulty threading HSP lines caused at least a 2 hour delay during this project.
10-30-04	0	1430	Note	Note	Note	Note	Left site.

LEAK LOG					Job#	37561NC			
Site:		Chevon		Client:		Shirley		Client Contact	April weems
Site Address:		8995 Grant Line Road		Elk Grove, California		Contact #		0	
Test Dates						Log Completed By:			
DATE	Leak/Pass	Time	ITEM	Test	Tested	Sample ID	Rate: (ug/L - ppm)	Description	
7/27/04	0								
7/27/04	0								

Cut and paste leak info from daily logs
No leaks.

Praxair Services, Inc.

Technical Solutions for the Industrial World.

UCISCO



Tracer Research Corrocon

CERTIFICATION OF ELDSM TRACER TIGHT® TEST RESULTS

ELD TEST TYPE: Final

Date: 10-31-04

Job # 37561NC

Prepared For:

Site Info:

Shirley

Chevon

9595 Lucas Ranch Road

8995 Grant Line Road

Rancho Cucamonga, CA

Elk Grove, California

Start Date: 10-29-04

End Date: 10-30-04

SYSTEM	TRACER	STATUS
87 Tank / Sumps	A	Pass
87 Primary Pipe	W	Pass
91 Tank / Sumps	A	Pass
91 Primary Pipe	W	Pass
VR / Vent Primary Pipe	W	Pass
Diesel Tank / Sumps	A	Pass
Diesel Primary Pipe	W	Pass
Diesel Vent Primary	W	Pass
Dispenser Sumps # 6	W	Pass

Praxair Services Inc. certifies that the tank and product distribution lines listed in the above table have been tested by means of Enhanced Tracer Tight®. According to EPA standard test procedures for evaluating leak detection methods, the Enhanced Tracer Tight® method is capable of detecting leaks of ≥ 0.005 gallons per hour with a Probability of Detection (PD) of 0.95 and Probability of false alarm of < 0.05

Tester: Nick Poynter State Lic. # 04-1686

Signature: <See Original For Signature> Date: 10-30-04

I declare under penalty of perjury that the information contained in this report is true and correct to the best of my knowledge.

The following criteria are used for the classification of leakage based on the presence or absence of tracer.

PASS
Criteria:
No Tracer Detected

FAIL
Criteria:
Tracer Detected

Office use only

Certification Confirmed by: _____ Date: _____

From: Vince Bunac <vbunac@arb.ca.gov>
To: <glew@arb.ca.gov>, Joe Guerrero <jguerrer@arb.ca.gov>, <sahlinm@swrcb.ca.gov>
Date: 8/5/04 2:11PM
Subject: Wilton ELD

George/Joe/Michael,

This morning 8/5/04 I met with Darren (Town & Country Construction) at the Wilton Site home of the new Chevron station to witness the installation of a Phil-Tite Phase I Vapor Recovery System. I observed the torque of the following components on two of the tanks:

- * Phil-Tite M/F4X4 Riser Adaptor to 175 Lbs.
- * Phil-Tite Spill Container to 100 Lbs.
- * Phil-Tite Rotatable Adaptors to 75 Lbs.

Darren indicated that a pre-test would be conducted in the next couple of weeks. He will inform both Mike and myself when this will take place.

Please let me know if you have any questions,
Vince Bunac