# Appendix III

## Field Observation Reports for Installation of OPW, CNI, and Phil-Tite Phase I EVR Systems and Subsequent Post-Installation ELD Testing

# OPW

**Willows, California**
**July 1-2, 2004**

# APPENDIX III

STAFF REPORT BY MR. MICHAEL SAHLIN, SWRCB
FINAL ELD TEST
OPW EVR PHASE I EO VR-102-D
July 1-2, 2004
Willows Shell
1300 W. Wood
Willows, CA

In Attendance:
Mr. Michael Sahlin – SWRCB
Mr. Bill Kelso – Contractor, Ed Staub & Sons
Mr. Kevin Tokunaga – Glenn County
Mr. Rick Steward – Glenn County
Mr. Clarence Sullivan – Praxair Servies Inc.
Mr. Roy Barrows – Praxair Services Inc.

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This new UST facility is located on the Southwest corner of Wood Street and Humboldt Avenue. This facility is branded as a Shell but is privately owned and operated. Mr. Kevin Tokununga of Glenn County was at the site on June 30, 2004 and verified that the OPW spill buckets were installed and torqued to the manufacturer's specifications. A helium pre-test was conducted by Praxair Services Inc. (PSI) on June 4, 2004.

On July 1, 2004, PSI arrived on-site at 7:30 AM to start setting up for the final test. The leak simulation was started at 9:30 AM by injecting Tracer "E" into the vent horizontal sampling probe (HSP) midway between the tanks. The leak simulation tracer was found in sufficient concentration to establish the Enhanced TracerTight® test (often referred to as ELD) timetable at 12.5 hours after inoculation for this UST facility. The vapor and primary product lines were inoculated at 2:00-2:30 PM with Tracer "W," the tanks were inoculated with Tracer "A" at 4:30 PM and pressurized with helium to 0.5 psi, vapor lines to 0.5 psi (Tracer A), and the product lines inoculated with Tracer "W" and pressurized to 50 psi. Mr. Rick Steward, Mr. Tokunaga, and Mr. Sahlin witnessed these events.

Mr. Tokunaga and Mr. Michael Sahlin witnessed PSI using their standard operating procedures to inoculate the vapor piping at the furthest point of the dispenser area and then collect vapor samples from the vent pipes to show that tracer gas was dispersed throughout the entire length of the vapor piping runs. Samples were collected from the secondary space of the vent and product piping and no tracer was detected. The vent and primary poduct piping passed by 7:30 PM on July 1, 2004. Samples were collected from the tank top sumps and the HSPs on July 2, 2004 and no tracer was detected. The tanks and entire UST facility passed on July 2, 2004.

See attachments:

(A) Letter from Mr. Kevin Tokunaga with attachment: Site Identification Information portion of OPW EVR Phase I Equipment Installation Check List (Revised 03/15/04) initialed by Mr. Kevin Tokunaga
(B) Completed OPW EVR Phase I Equipment Installation Check List (Revised 03/15/04)
(C) PSI Job Log for final ELD test, July 1-2, 2004

County of Glenn Air Pollution Control District

**WILLIAM R. DUCKWORTH**
Air Pollution Control Officer
Director: Unified Program

**MARK D. BLACK**
Assistant Air Pollution Control Officer
Unified Program

Willows Shell Enhanced Leak Detection Test (Final Test)
June 30-July 2, 2004

**OPW EVR Phase I VR-102-D**

| | |
|---|---|
| Contractor: | Ed Staub and Sons, Petroleum, Inc |
| Installer: | Bill Kelso |
| PraxAir: | Clarence Sullivan, Roy Barrow |
| Pre-Test: | Dave Erickson, Jackson Julson |
| GCAPCD: | Kevin Tokunaga |
| GCCUPA: | Rick Steward |

*Torque Settings at the Vapor and Product risers*
Torque settings on the product and vapor four inch nipples above the Face Seal Adaptor were observed and verified to be tightened at 160-165 ft pounds. A torque wrench was used in conjunction with a ½" to ¾" drive adapter and the OPW 61SA Rotatable Adaptor Socket to verify torque settings.

Note: I cannot attest to the torque settings for the FSA-400 Face Seal Adaptor. To do so at this time would have required the removal of the spill bucket and thus compromised the results of the previously performed helium pre-test and the current ELD test. When the above torque settings were observed at 160-165 foot pounds I watched for any rotation below the nipple and did not see any movement. Although I cannot verify the FSA-400 to be torqued to 200 ft/lbs, I can verify it to be at least 160-165 ft pounds.

*Summary:* The tank system passed the ELD test after some minor leaking around the TLS riser on the 91 Premium tank was tightened. The TLS risers on both 87 Regular and 91 Premium were not in place during the previous "pre-test". The initial leak (on the final test) was not the result of leaking Phase I vapor recovery equipment.

See attached OPW EVR Phase I Equipment Installation Checklist

Kevin Tokunaga
Glenn County APCD

C:\Documents and Settings\KTOKUNAGA.AGWORLD\Desktop\Willows Shell Enhanced Leak Detection Test.doc

OPW
EVR Phase I Equipment
Installation Check List
(Revised 03/15/04)

**Site Identification Information**

**Site Address:** WILLOWS SHELL
1300 W. WOOD ST.
WILLOWS, CA. 95988

**Installing Company:** ED STAUB & SONS

**Technician's Name** (Print Clearly): BILL KELSO

**Technician's Signature:** Bill Kelso

**Date of installation:** 6-1-2004

1/2 ps for PRAX-AIR test on vapor line

supreme - vapor 160 ft/lb — KT 6/30/04
product 160 ft/lb KT 6/30/04

regular - vapor 160 ft/lb KT 6/30/04
product 160 ft/lb — KT 6/30/04

# OPW
# EVR Phase I Equipment
# Installation Check List
(Revised 03/15/04)

**Components Installed**

| | | |
|---|---|---|
| OPW 500 Series EVR Fill Spill Containment Bucket | Yes ✓ | No |
| OPW 500 Series EVR Vapor Spill Containment Bucket | Yes ✓ | No |
| OPW 2100 Series EVR Fill Spill Containment Bucket | Yes | No |
| OPW 2100 Series EVR Vapor Spill Containment Bucket | Yes | No |
| OPW FSA-400 Threaded Riser Adaptor (Face Seal Adaptor) | | |
| On Fill Riser (Required) | Yes ✓ | No |
| On Tank Probe Riser (Required) | Yes ✓ | No |
| On Vapor Riser (Optional) | Yes ✓ | No |
| OPW 61SO 400 EVR Series Overfill Prevention Valve | Yes | No |
| OPW 61JSK Jack Screw Assembly | Yes | No |
| OPW 61VSA Vapor Swivel Adaptor | Yes ✓ | No |
| OPW 61SALP Fill Swivel Adaptor | Yes ✓ | No |
| OPW 634TT Top Seal EVR Fill Cap | Yes | No |
| OPW 1711T Top Seal EVR Vapor Cap | Yes | No |
| OPW 634LPC Low Profile Top Seal EVR Fill Cap | Yes ✓ | No |
| OPW 1711LPV Low Profile Top Seal EVR Vapor Cap | Yes ✓ | No |

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**Installation acknowledgment**

Installed OPW FSA-400 Threaded Riser Adaptor (Face Seal Adaptor) on fill riser and tightened to 200 ft. lb.
Thread sealant compound used PERMATEX THREAD SEALANT

Installed OPW FSA-400 Threaded Riser Adaptor (Face Seal Adaptor) on tank probe rise and tightened to 200 ft. lb.
Thread sealant compound used SAME

Optional:
Installed OPW FSA-400 Threaded Riser Adaptor (Face Seal Adaptor) on vapor riser and tightened to 200 ft. lb.
Thread sealant compound used SAME

Installed OPW 2100 Series ____ or 500 Series ✓ Fill spill containment bucket onto FSA-400 attached to fill riser and tightened to 200 ft. lb.
Thread sealant compound used SAME

Installed OPW 00 Series ___ or 500 Series ✓ vapor spill containment bucket onto vapor riser and tightened to 200 ft. lb.

Thread sealant compound used Same

Assembled 61SO-400C-EVR Series overfill prevention valve

Used OPW supplied epoxy Yes ___ No ___

Applied epoxy: To upper 1" inside of top tube; under cinch head bolts and lock washers; on threads of valve body at lower tube connection.

Yes ___ No ___

Allowed epoxy to cure for 24 hours before exposure to fuel or vapor

Yes ___ No ___

Installed OPW 61SO 400C-EVR Series overfill prevention valve into fill spill containment bucket. Yes ___ No ___

**Alternative to 61SO:**

Installed OPW 61T Straight Drop Tube into fill spill containment bucket.

Yes ✓ No ___

Installed OPW 61JSK Jack Screw assembly on top of 61SO 400C-EVR Series overfill prevention valve or 61T Straight Drop Tube.

Yes ✓ No ___

Lock-Tite applied to screws Yes ✓ No ___

Screws tightened to 3+ ft. lb.

Installed faced off 4" NPT pipe nipple in fill spill containment bucket and tightened nipple to 160 ft. lb.

Thread sealant compound used Same

Tool used to install nipple OPW 61SA

Installed faced off 4" NPT pipe nipple in vapor spill containment bucket and tightened nipple to 160 ft. lb.

Thread sealant compound used Same

Tool used to install nipple OPW 61SA

Installed OPW 61 SALP Fill Swivel Adaptor onto faced off 4" NPT pipe nipple in fill spill containment bucket and tightened fill adaptor to 160 ft. lb.

Thread sealant compound used Same

Tool used to install nipple OPW 61SA

Installed OPW 61 VSA Vapor Swivel Adaptor onto faced off 4" NPT pipe nipple in vapor spill containment bucket and tightened vapor adaptor to 160 ft. lb.

Thread sealant compound used Same

Tool used to install nipple OPW 61SA

OPW 61 SA-Tool used to install OPW components Yes ✓ No ___

## PROJECT INFO

| | |
|---|---|
| JOB Number | 37275NC |
| SITE NAME | Shell |
| SITE ADDRESS | 1300 W. Wood st. |
| SITE - CITY, STATE, ZIP | Willows, Ca |
| SITE CONTACT | |
| SITE CONTACT PHONE# | |
| | |
| CONTRACT CLIENT | ED Staub & Sons |
| CLIENT ADDRESS | PO Box 506 |
| CLIENT CITY,STATE, ZIP | Tullylake Ca 96134 |
| CLIENT CONTACT | Bill Kelso |
| CONTACT PHONE # | 530 521 5038 |

MAKE SURE THAT YOUR SITE AND CLIENT INFO IS ACCURATE - DOUBLE CHECK WITH OFFICE IF UNSURE

## ARRIVAL CHECK LIST

| | |
|---|---|
| # Tanks | 2 Tanks/1 split |
| # Dispensers | 4 |

### TANK INFO

| Tank Product | Volume | Empty/Water/Fuel |
|---|---|---|
| 87 Tank | 12K | Empty |
| 91 Tank | 6K | Empty |
| DSL Tank | 6K | Empty |
| | | |
| | | |

### PIPING INFO

| | TYPE (Manufacture) | Helium / Vacuum |
|---|---|---|
| **Product Lines** | Pieces | Tracer W |
| **VR / Vent** | Smith | Tracer W |
| **Flex** | Pieces | Tracer W |
| **Spill Buckets** | OPW | |
| **Shear Valves** | OPW | Tracer W |
| **Who Performed Pre-test!!** | Praxair Svcs | |

**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] | | | Probe Install? (Yes/No) | |
|---|---|---|---|---|
| Job Number: | 37275NC | | | |
| Client: | ED Staub & Sons | Contact: | Bill Kelso | |
| Site Name: | Shell | Phone: | 530 521 5038 | |
| Site Address: | 1300 W. Wood st. | Site Contact: | | |
| City, State: | Willows, Ca | Phone: | | |

Crew: Site Lead: Clarence Sullivan

Crew: Roy Barrow

| | | | | | | Total HRS | Billable Hrs | Initial |
|---|---|---|---|---|---|---|---|---|
| Start Date: | 1-Jul-04 | Start Time: | 7:30 | End Time: | 22:30 | 14.25 | 14.25 | |
| Day Two Date: | 2-Jul-04 | Start Time: | 7:30 | End Time: | | 7.5 | 7.5 | |
| Day Three Date: | | Start Time: | | End Time: | | | | |
| Day Four Date: | | Start Time: | | End Time: | | | | |

MAKE NOTES IF YOU HAVE ANY UNBILLABLE HOURS

| Total Billable Hours | | 21.75 | | Total Detected Leaks | |
|---|---|---|---|---|---|
| TEST RESULTS | | Pass | Fail | Notes per item ( Leaks should be covered under Leak log) | |
| Product Primary | | Pass | | All products pass | |
| Product Secondary | | | | N/A | |
| VR Primary | | Pass | | Primary VR and VENTs pass | |
| VR Secondary | | | | N/A | |
| UDCs -# | 4 | Pass | | All UDCs pass | |
| Tanks (Includes Sumps) | | Pass | | All tank sumps pass | |

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

No tracer detections in HSP samples - Tatal 2 leaks found and repaired both in 91TS

Form Completed E Clarence Sullivan Date: CA# 97-1604

Hours Approved By: Signature:

QA Review By: Date: Time:

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 1-Jul | Day # | 1 | | | Log Completed By: | C Sullivan / 97-1604 |

| Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Rate: (ug/L - ppm) | Description |
|---|---|---|---|---|---|---|---|
| 0 | 7:30 | Note | Note | Note | Note | | on-site, met with client, reviewed site, Michael Salin onsite |
| 0 | 8:00 | Note | Note | Note | Note | | Start set up of test connections- VR and vent lines can not pull vac on line for inoculation - will use pressure |
| 0 | 8:30 | HSP | Note | Note | Note | | Reviewed HSP layout |
| 0 | 9:30 | LS | Final | LS | Start LS | TRACER E = LS | Introduced at point midway between tanks |
| 0 | 10:00 | Note | Note | Note | | | Start Calibration |
| 0 | 11:00 | Note | Note | Note | Note | | Calibration instrument Complete |
| 0 | 11:21 | LS | Final | LS | Confirm LS | leak | Sample collected at location were LS was introduced |
| 0 | 11:45 | LS | Final | LS | Confirm LS-HSP 2 | ND- E | Sample collected out of HSP 2 |
| 0 | 12:36 | HSP | BG | HSP 2 | BG-HSP2 5-15ft | ND-A,W | Sample collected BG |
| 0 | 12:51 | HSP | BG | HSP 2 | BG-HSP2 20-35ft | ND-A,W | Sample collected BG |
| 0 | 13:04 | LS | Final | LS | Confirm LS | ND-E | Sample resampled at point of LS introduction |
| 0 | 13:22 | HSP | BG | HSP 2 | BG-HSP2-40-55ft | ND-A,W | Sample collected BG |
| 0 | 13:34 | HSP | BG | HSP 2 | BG-HSP2-60-75ft | ND-A,W | Sample collected BG |
| 0 | 13:40 | LS | Final | LS | Inoc | TRACER E = LS | Re-introduce LS in HSP 3 |
| 3 | 13:45 | LS | Final | HSP | Confirm LS at LS point | Leak E | Confirmed LS introduced OK |
| 0 | 13:58 | HSP | BG | HSP 2 | BG HSP2-80-95ft | ND-A,W | Sample collected BG |
| 3 | 14:00 | VRPL | Final | INOC | INOC | Inoculated | Inoculated |
| 3 | 14:10 | 87PL | Final | INOC | Inoc | Inoculated | Inoculated |
| 3 | 14:20 | 91PL | Final | INOC | Inoc | Inoculated | Inoculated |
| 3 | 14:30 | DSLPL | Final | INOC | Inoc | Inoculated | Inoculated |
| 0 | 14:45 | VRPL | Final | INOC | VRPL-UDC1 ver | Leak W | Sample collected from shear valve UDC1 |

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 1-Jul | Day # | 1 | | | Log Completed By: | C Sullivan / 97-1604 |
| 0 | 15:02 | HSP | LS | HSP1 | LS HSP1-5ft | ND-A,W, E | Collected LS |
| 0 | 15:13 | HSP | LS | HSP1 | LS HSP1-5-20Ft | ND-A,W, E | Collected LS |
| 0 | 15:24 | HSP | LS | HSP1 | LS HSP1-25-30Ft | ND-A,W, E | Collected LS |
| 0 | 15:40 | HSP | LS | HSP1 | LS HSP1-45-50Ft | ND-A,W, E | Collected LS |
| 0 | 15:57 | HSP | LS | HSP1 | LS HSP1-55-60Ft | ND-A,W, **leak tracer E** | Collected LS |
| 3 | 16:06 | UDC | Final | UDC1-2 | UDC1-2 | ND-W | Sample from UDC |
| 3 | 16:12 | UDC | Final | UDC3-4 | UDC3-4 | ND-W | Sample from UDC |
| 3 | 16:19 | UDC | Final | UDC5-6 | UDC5-6 | ND-W | Sample from UDC |
| 3 | 16:24 | UDC | Final | UDC7-8 | UDC7-8 | ND-W | Sample from UDC |
| 3 | 16:29 | VRPL | Final | 1 | 87FVRS-Vent Sump | ND-W | sample collected |
| 3 | 16:30 | 87TK | Final | INOC | Inoc | Inoc=Tracer A | Inoc Tracer A into tank |
| 3 | 16:30 | 91TK | Final | INOC | Inoc | Inoc=Tracer A | Inoc Tracer A into tank |
| 3 | 16:30 | DSLTK | Final | INOC | Inoc | Inoc=Tracer A | Inoc Tracer A into tank |
| 0 | 16:37 | LS | LS | HSP1 | HSP1-65-70ft | ND-E | Collected LS |
| 0 | 16:49 | LS | LS | HSP1 | HSP1-75-80ft | ND-E | Collected LS |
| 0 | 17:02 | LS | LS | HSP1 | HSP1-85-90ft | ND-E | Collected LS |
| 0 | 17:12 | LS | LS | HSP1 | HSP1-95-100ft | ND-E | Collected LS |
| 0 | 17:25 | LS | LS | HSP1 | HSP1-105-110ft | ND-E | Collected LS |
| 0 | 17:34 | LS | LS | HSP1 | HSP1-115-120ft | ND-E | Collected LS |
| 0 | 17:45 | LS | LS | HSP1 | HSP1-125ft | ND-E | Collected LS |
| 3 | 18:06 | 87Vent | Final | 1 | 87Vent-87fvrs | ND-A,W | Sample from Vent secondary at 87FVRS |
| 3 | 18:13 | 91Vent | Final | 1 | 91Vent-91FVRS | ND-A,W | Sample from Vent secondary at 91FVRS |
| 3 | 18:26 | DSLVent | Final | 1 | DSLvent-DSLFS | ND-A,W | Sample from Vent secondary at DSL fill Sump |
| 3 | 18:33 | 87PL | Final | 1 | 87TS-UDC1- 1 | ND-A,W | TS-UDC |
| 3 | 18:40 | 87PL | Final | 1 | 81TS-UDC1- 2 | ND-A,W | TS-UDC |
| 3 | 18:46 | 91PL | Final | 1 | 91TS-UDC1 -1 | ND-A,W | TS-UDC |

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 1-Jul | Day # | 1 | | | Log Completed By: | C Sullivan / 97-1604 |
| 3 | 18:53 | 91PL | Final | 1 | 91TS-UDC1 -2 | ND-A,W | TS-UDC |
| 3 | 18:59 | DSLPL | Final | 1 | DSLTS-UDC5- 1 | ND-A,W | TS-UDC |
| 3 | 19:05 | DSLPL | Final | 1 | DSLTS-UDC5- 2 | ND-A,W | TS-UDC |
| 3 | 19:11 | VRPL | Final | 1 | VRPL-UDC 5-6 | ND-A,W | 87FVRS-UDC |
| 3 | 19:17 | VRPL | Final | 1 | VRPL-UDC 1-2 | ND-A,W | 87FVRS-UDC |
| 3 | 19:22 | VRPL | Final | 1 | VRPL-UDC 3-4 | ND-A,W | 87FVRS-UDC |
| 3 | 19:28 | VRPL | Final | 1 | VRPL- UDC7-8 | ND-A,W | 87FVRS-UDC |
| 0 | 19:35 | LS | LS | HSP1 | HSP1-50ft | Leak | Sample to confirm LS |
| 0 | 19:43 | LS | LS | HSP1 | HSP1-55ft | ND-E | Sample to confirm LS |
| 0 | 19:52 | LS | LS | HSP1 | HSP1-60ft | ND-E | Sample to confirm LS |
| 0 | 20:01 | LS | LS | HSP1 | HSP1-65ft | ND-E | Sample to confirm LS |
| 0 | 20:09 | LS | LS | HSP1 | HSP1-8ft | ND-E | Sample to confirm LS |
| 0 | 20:18 | LS | LS | HSP1 | HSP1-4ft | ND-E | Sample to confirm LS |
| 0 | 21:33 | LS | LS | HSP1 | HSP1-45ft | ND-E | Sample to confirm LS |
| 0 | 21:44 | LS | LS | HSP1 | HSP1-50ft | ND-E | Sample to confirm LS |
| 0 | 21:53 | LS | LS | HSP1 | HSP1-55ft | ND-E | Sample to confirm LS |
| 3 | 22:23 | LS | LS | HSP2 | HSP2-7ft | Leak | Sample to confirm LS |
| 3 | 22:32 | LS | LS | HSP2 | HSP2-13ft | Leak | Sample to confirm LS |
| 3 | 22:35 | LS | Note | Note | Note | | Two samples from the Inner Disp loop; found tracer E in sufficient quantities in both probes. |
| 0 | 22:35 | Note | Note | Note | Note | | Off-site |
| | Day Summary: | | Tested all primary lines - products, vent and VR / Tested all UDCs - PASS | | | | |

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 2-Jul | Day # | 2 | | | Log Completed By: | C Sullivan - 97-1604 |
| Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Description | |
| 0 | 7:30 | Note | Final | NOTE | NOTE | On-site began calibration; blowing out and covering sumps | |
| 0 | 8:52 | Note | NOTE | NOTE | NOTE | GC Calibration Complete | |
| 3 | 9:48 | HSP | Final | HSP1 | HSP1-5-20ft | Sample collected from HSP | |
| 3 | 9:54 | HSP | Final | HSP1 | HSP1-25-40ft | Sample collected from HSP | |
| 3 | 10:02 | HSP | Final | HSP1 | HSP1-45-60ft | Sample collected from HSP | |
| 3 | 10:08 | HSP | Final | HSP1 | HSP1-65-80ft | Sample collected from HSP | |
| 3 | 10:14 | 91TK | Final | FVRS | 91FVRS | Sample from Sump | |
| 1a | 10:22 | 91TK | Final | TS | 91 TS-1 | Leak located in TS at riser to Tank. Tightened | |
| 3 | 10:34 | 87TK | Final | FVRS | 87FVRS | Sample from Sump | |
| 3 | 10:44 | 87TK | Final | TS | 87TS | Sample from Sump | |
| 3 | 10:51 | DSLTK | Final | FS | DSLFS | Sample from Sump | |
| 3 | 11:12 | DSLTK | Final | TS | DSLTS | Sample from Sump | |
| 3 | 11:26 | HSP | Final | HSP1 | HSP1-85-100ft | Sample collected from HSP | |
| 3 | 11:32 | HSP | Final | HSP1 | HSP1-105-120ft | Sample collected from HSP | |
| 3 | 11:40 | HSP | Final | 2-HSP | HSP2-5-20ft | Sample collected from HSP | |

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 2-Jul | Day # | 2 | | | Log Completed By: | C Sullivan - 97-1604 |
| 1b | 11:49 | 91TK | Final | TS | 91TS | Sample collected after one hr - second leak located at ball valve - contractor tightened and repaired | |
| 3 | 11:58 | HSP | Final | 2-HSP | HSP2-25-40ft | Sample collected from HSP | |
| 3 | 12:09 | HSP | Final | 2-HSP | HSP2-45-60ft | Sample collected from HSP | |
| 3 | 12:22 | HSP | Final | 2-HSP | HSP2-65-80ft | Sample collected from HSP | |
| 3 | 12:41 | HSP | Final | 2-HSP | HSP2-85-100ft | Sample collected from HSP | |
| 3 | 12:51 | HSP | Final | 2-HSP | HSP2-105-120ft | Sample collected from HSP | |
| 3 | 13:08 | HSP | Final | 2-HSP | HSP2-125-140ft | Sample collected from HSP | |
| 3 | 13:17 | HSP | Final | 2-HSP | HSP2-145ft | Sample collected from HSP | |
| 3 | 13:36 | 91TK | Final | TS | 91TS | Sample after one hour - after repairs | |
| 3 | 14:00 | HSP | Final | 3-HSP | HSP3-5-20ft | Sample collected from HSP | |
| 3 | 14:06 | HSP | Final | 3-HSP | HSP3-25-40ft | Sample collected from HSP | |
| 3 | 14:17 | HSP | Final | 3-HSP | HSP3-45-60ft | Sample collected from HSP | |
| 3 | 14:23 | HSP | Final | 3-HSP | HSP3-65-80ft | Sample collected from HSP | |
| 3 | 14:30 | HSP | Final | 3-HSP | HSP3-85-100ft | Sample collected from HSP | |
| 3 | 14:37 | HSP | Final | 3-HSP | HSP3-105-120ft | Sample collected from HSP | |

| Daily Activity Log | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Date: | 2-Jul | Day # | 2 | | | Log Completed By: | C Sullivan - 97-1604 |
| 3 | 14:47 | HSP | Final | 4-HSP | HSP4-5-20ft | Sample collected from HSP | |
| 3 | 14:54 | HSP | Final | 4-HSP | HSP4-25-40ft | Sample collected from HSP | |
| 3 | 15:06 | HSP | Final | 4-HSP | HSP4-45-60ft | Sample collected from HSP | |
| 3 | 15:18 | HSP | Final | 4-HSP | HSP4-65-80ft | Sample collected from HSP | |
| 0 | 15:30 | Note | NOTE | NOTE | NOTE | All systems pass | |
| 0 | 16:00 | Note | NOTE | NOTE | NOTE | Clean up- OFF SITE | |
| | Day Summary: | | | | | | |

| LEAK LOG | | | | Job# | 37275NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Shell | | Client: | ED Staub & Sons | | Client Contact | Bill Kelso |
| Site Address: | | 1300 W. Wood st. | | Willows, Ca | | Contact # | 530 521 5038 |
| Test Dates | 7/1-2/04 | | | | | Log Completed By: | C Sullivan / 91-1604 |
| Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Rate: (ug/L - ppm) | Description |
| 1a | 10:22 | 91TK | Final | TS | 91 TS-1 | leak | Leak located in TS at riser to Tank. Tightened |
| 1b | 11:49 | 91TK | Final | TS | 91TS | leak | Sample collected - second leak located at ball valve - contractor tightened and repaired |

# Praxair Services, Inc.

Technical Solutions for the Industrial World.

UCISCO Tracer Research Corrocon

## CERTIFICATION OF ELD[SM] TRACER TIGHT® TEST RESULTS

**Date:** 7/1-2/2004 **Job #** 37275NC

**Prepared For:**
ED Staub & Sons
PO Box 506
Tullylake Ca 96134

**Site Info:**
Shell
1300 W. Wood st.
Willows, Ca

Test Time Period 4/12-15/04

| | TRACER | STATUS |
|---|---|---|
| Diesel Tank & Sumps | A | Pass |
| 87 Tank & Sumps | A | Pass |
| 91 Tank & Sumps | A | Pass |
| Piping 87 Primary | W | Pass |
| Piping 91 Primary | W | Pass |
| Piping Vapor Recovery/ Vent - Primary | W | Pass / Pass |
| Piping Diesel - Primary | W | Pass |
| Piping Diesel - Vent - Primary | W | Pass |
| Dispenser Sumps 4 | 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 ≥0.005gallons per hour with a Probability of Detection (PD) of 0.95 and Probability of false alarm of <0.05

Tester: Clarence Sullivan CA Lic. # 97-1604

Signature: <See Original For Signature> Date:

I declare under penalty of perjury that I am a licensed tank tester in the State of California and 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 | FAIL |
|---|---|
| Criteria: | Criteria: |
| No Tracer Detected | Tracer Detected |

Office use only

Certification Confirmed by: Date:

# CNI

**Fair Oaks, California**
**August 16-17, 2004**

# APPENDIX III

STAFF REPORT BY MR. MICHAEL SAHLIN, SWRCB
FINAL ELD TEST
CNI EVR PHASE I EO VR-104A
August 16-17, 2004
Safeway
5400 Dewey Drive
Fair Oaks, CA

In Attendance:
Mr. Michael Sahlin – SWRCB
Ms. Terrel Ferreira – ARB, Office of the Ombudsman
Mr. Lou Dinkler – ARB
Mr. Neil Nipper – ARB
Mr. Nahum Valdez – Fillner Construction, Inc.
Mr. Brian Quinley – Praxair Services Inc.
Mr. David Paszkiet – Praxair Services Inc.

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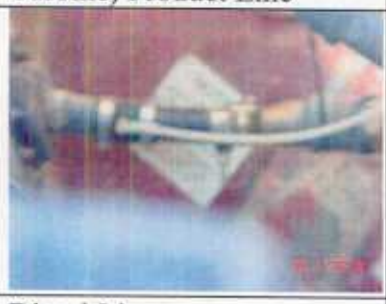
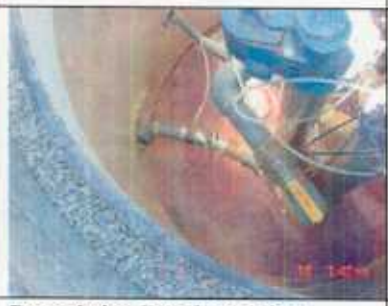
This UST facility is located at the Northeast corner of Dewey Drive and Madison Avenue in Fair Oaks, California. The people listed above were at the facility at approximately 7:30 AM on August 16, 2004. Praxair Services Inc. (PSI) started setting up their equipment and prepared to conduct the gross helium test. At about 10:15 AM, Mr. Nahum Valdez of Fillner Construction Inc. started to install the spill bucket adapters and nipples on the tank risers so that PSI would be able to make connections to inoculate the tanks with tracer. Ms. Ferreira and Mr. Sahlin witnessed the installation of the spill buckets according to manufacturer's instructions. At 11:45 AM, PSI started the gross helium test. Problems were encountered on the regular unleaded spill bucket; the drain had a slight leak. The spill bucket was removed, cleaned, and replaced. The premium fill adapter had a slight leak because the set screws were not fully tightened, this also was fixed. Mr. Sahlin observed that both these problems were immediately fixed and the "Leak Simulation" was started about 1:45 PM by inoculating a 5 foot probe in the horizontal sampling probe (HSP) manhole with Tracer "E". The leak simulation tracer was found in sufficient concentration to establish the Enhanced TracerTight® test (often referred to as ELD) timetable at 18.5 hours for this UST facility. The product lines were then inoculated with Tracer "W" at 2:30 PM. The waiting period for the APT flex pipe is 10-20 minutes. (According to PSI Standard Operating Procedures, the wait time for flex pipe with small secondary volumes is 10-20 minutes, while the wait time is 20-40 minutes for rigid fiberglass pipe with larger secondary volumes.) At 3:00 PM air was blown through the secondary space of the product piping, and a small problem arose when PSI encountered water in the secondary space. This water was flushed out and air was blown through without any further delays. At approximately 5:00 PM all product and vapor lines passed. At 5:45 PM, all three tanks were inoculated with Tracer "A" and brought up to 0.5 pounds per square inch (psi) pressure.

At 7:00 AM on August 17, 2004, PSI evacuated (i.e., blew the sumps out with air) and recovered them with plastic. Ms. Ferreira and Mr. Sahlin witnessed Fillner Construction Inc. fix the wire tension holders in the automatic tank gauge (ATG) caps. PSI had to release the pressure from the tank and re-pressure it after the ATG was fixed. Another problem was discovered on one of the fill caps on the diesel tank, and the fill cap was replaced. The cap on the "future Phase I" riser for the diesel was also leaking. The fill adapter was removed and replaced with a threaded cap. The only other difficulty encountered was that it was very hard to pull the nylon tubing through the HSP. CGRS was called and they came to the facility to pull the tubing. After these problems were fixed, the facility passed the ELD post-installation test at 6:00 PM on August 17, 2004.

See attachments:
(A) PSI Job Log for August 16-17, 2004

# APPENDIX III

## PHOTOS

| | | |
|---|---|---|
|  |  |  |
| Unleaded Sump (North Turbine) Product Line | Unleaded Sump (South Turbine) Product Line | Unleaded Fill Sump |
|  |  |  |
| Diesel Fill Sump | Diesel Line | IS Space Monitor – Diesel/Premium Tank(s) |
|  |  |  |
| Premium Fill Sump | Premiuim Product Line | Vent Riser Spill Box |
|  |  |  |
| HSP Manway | Leak at ATG Riser | |

## PROJECT INFO

| | |
|---|---|
| JOB Number | 37382NC |
| SITE NAME | Safeway |
| SITE ADDRESS | 5400 Dewey Drive |
| SITE - CITY, STATE, ZIP | Fair Oaks, CA |
| SITE CONTACT | Naham Valdez |
| SITE CONTACT PHONE# | ( ) 417-4111 |
| | |
| CONTRACT CLIENT | CGRS |
| CLIENT ADDRESS | P.O.Box 1489 |
| CLIENT CITY,STATE, ZIP | Fort Collins, CO 80524 |
| CLIENT CONTACT | Brian Greene |
| CONTACT PHONE # | (970) 420-6822 |

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 | Western Fiberglass Co-Flex | No/Yes |
| VR / Vent | Ameron | No/Yes |
| Flex | TiteFlex | Yes/Yes |
| Spill Buckets | CNI | No/No |
| Shear Valves | | |
| Who Performed Pre-test!! | Praxair Services Inc./ and CGRS | |
| UDC Dimension's -(length/depth/width) | | |
| Sump Dimension's - (Diameter/Depth) | | |

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: | 37382NC | | | |
| Client: | CGRS | Contact: | Brian Greene | |
| Site Name: | Safeway | Phone: | (970) 420-6822 | |
| Site Address: | 5400 Dewey Drive | Site Contact: | Naham Valdez | |
| City, State: | Fair Oaks, CA | Phone: | 910 417-4111 | |

Crew: Site Lead: Bryan Quinley

Crew: David Paszkiet

| | | | | | | Total HRS | Billable Hrs | Initial |
|---|---|---|---|---|---|---|---|---|
| Start Date: | 8/16/04 | Start Time: | 7:45 | End Time: | 7:30 | 11.75 | 11.75 | |
| Day Two Date: | 8/17/04 | Start Time: | 7:00 | End Time: | 8:00 | 13 | 13 | |
| Day Three Date: | | Start Time: | | End Time: | | | | |
| Day Four Date: | | Start Time: | | End Time: | | | | |

MAKE NOTES IF YOU HAVE ANY UNBILLABLE HOURS

| Total Billable Hours | 24.75 | | Total Detected Leaks | 7 |
|---|---|---|---|---|
| TEST RESULTS | Pass | Fail | Notes per item ( Leaks should be covered under Leak log) | |
| Product Primary | X | | | |
| Product Secondary | na | | | |
| VR Primary | X | | | |
| Vent primary | X | | | |
| UDCs -# 6 | X | | | |
| Tanks (Includes Sumps) | X | | see leak log | |

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

Form Completed By: Bryan Quinley Date: CA# 03-1637

Hours Approved By: Signature: Date:

QA Review By: Date: Time:

| Daily Activity Log | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | Client: | CGRS | | Client Contact | | |
| Site Address: | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | | |
| TEST DATES | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet | |

| Date: | Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Description |
|---|---|---|---|---|---|---|---|
| 8/16/04 | 0 | 7:45 | | | | | Arrived on Site |
| 8/16/04 | 0 | 7:50 | | | | | Site Review with Contractor |
| 8/16/04 | 0 | 8:00 | | | | | Tailgate Safety Meeting |
| 8/16/04 | 0 | 8:05 | | | | | Discussion with State and County Officials on Today's Activities. |
| 8/16/04 | 0 | 8:10 | | | | | Started Setup for Primary Innoculation and Secondary Sampling |
| 8/16/04 | 0 | 9:20 | | | | | begin standardizing |
| 8/16/04 | 0 | 8:30 | | | | | prod lines have helium on them, giving them soap test |
| 8/16/04 | 0 | 10:30 | | | | | contractor done with the sump work |
| 8/16/04 | 0 | 11:30 | | | | | soap down all the udcs found no leaks |
| 8/16/04 | 0 | 12:00 | 87 tk | pretest | fvs/ts | | fill 87 tk to .5 psi to test all fittings and buckets with soap |
| 8/16/04 | 0 | 12:10 | dsl tk | pretest | fvs/ts | | fill dsl tk to .5 psi to test all fittings and buckets with soap |
| 8/16/04 | 0 | 12:15 | 91 tk | pretest | fvs/ts | | fill 91 tk to .5 psi to test fittings and bucketsin sumps |
| 8/16/04 | 0 | 12:20 | prod lines | | | | begin process of vacuuming out the lines for innoc. |
| 8/16/04 | 0 | 12:05 | 87 tk | | | | the fill/spill bucket is leaking, the drain valve |
| 8/16/04 | 0 | 12:15 | 91 tk | | | | the fill/spill bucket is leaking, the brass collar was not tight enough |
| 8/16/04 | 0 | 1:45 | LS | | | | inject 30 ccs of tracer E 438 into 5' LS probe |
| 8/16/04 | 0 | 1:55 | hsp | ls | ls | | collect sample to see if tracer E got into the tank pit |
| 8/16/04 | 0 | 1:40 | | | | | vacuuming of all prod lines complete |
| 8/16/04 | 0 | 2:10 | ls | ls | ls | | collect sam[ple from the LS probe |
| 8/16/04 | 0 | 2:20 | dsl pl | final | 1 | | innoc loine to 40 psi, use vac to inoc |
| 8/16/04 | 0 | | | | | | **innoc all product and vr lines from disp 6** |
| 8/16/04 | 0 | 2:40 | | | | | could not get air through the 87 2nd |
| 8/16/04 | 0 | 3:00 | | | | | **we accidentally sampled a 2nd that had not been had the primary innoc.** |

| Daily Activity Log | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | Client: | | CGRS | | Client Contact | |
| Site Address: | | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | |
| TEST DATES | | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet |
| 8/16/04 | 3 | 3:15 | dsl pl | final | 1 | dsl 2nd from TS-udc 1 | collect sample bag by blowing air-8 gal |
| 8/16/04 | 0 | 4:20 | dsl pl | final | 1 | dsl 2nd from TS-udc 6 | having trouble with getting getting air through the 2nds |
| 8/16/04 | 0 | 3:30 | 91 pl | final | 1 | | innoc the 91 pl to 40 psi using vac |
| 8/16/04 | 3 | 3:45 | 91 pl | final | 1 | 91 2nd TS-udc 1 | collect sample by blowing air- 9gal |
| 8/16/04 | 3 | 3:50 | 91pl | final | 1 | 91 2nd TS-udc 6 | collect sample by blowing air- 7gal |
| 8/16/04 | 0 | 3:55 | 87 pl | final | 1 | | innoc 87 pl to 40 psi-use vac |
| 8/16/04 | 3 | 4:15 | 87 pl | final | 1 | 87 2nd TS-udc 1 | collect sample by blowing air- 7gal |
| 8/16/04 | 3 | 4:20 | 87 pl | final | 1 | 87 2nd TS-udc 6 | collect sample by blowing air-8 gal |
| 8/16/04 | 0 | 4:40 | vr/v | final | 1 | | begin to innoc vr/v line |
| 8/16/04 | 0 | 4:58 | vr/v | final | 1 | verify W at 87 vent | float bag sample to verify W |
| 8/16/04 | 0 | 5:00 | vr/v | final | 1 | verify W at 91 vent | float bag sample to verify W |
| 8/16/04 | 0 | 5:03 | vr/v | final | 1 | verify W at udc 5 | float bag sample to verify W |
| 8/16/04 | 0 | 5:10 | vr/v | final | 1 | verify W at udc 4 | float bag sample to verify W |
| 8/16/04 | 3 | 5:40 | vr/v | final | 1 | vr 2 87fvs-91fvs | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:45 | vr/v | final | 1 | vr 2 87fvs-udc 3 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:48 | vr/v | final | 1 | vr 2 87 fvs-udc 4 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:50 | vr/v | final | 1 | vr 87 fvs-udc 2 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:53 | vr/v | final | 1 | vr 87 fvs-udc 5 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:55 | vr/v | final | 1 | vr 87 fvs-udc 1 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 5:58 | vr/v | final | 1 | vr 87 fvs-udc 6 | collect bag sample by blowing air- |
| 8/16/04 | 3 | 6:08 | vent | final | 1 | vent 2nd 87fvs-vent | collect bag sample by blowing air- |
| 8/16/04 | 3 | 6:10 | vent | final | 1 | vr 2nd 91fvs-vent | collect bag sample by blowing air- |
| 8/16/04 | 0 | 5:55 | dsl tk | final | 1 | | innoc dsl tk to .5 psi |
| 8/16/04 | 0 | 6:00 | 87 tk | final | 1 | | innoc 87 tk to .5psi |
| 8/16/04 | 0 | 6:05 | 91 tk | final | 1 | | innoc 91 tk .5 psi |
| 8/16/04 | 0 | 6:40 | ls | | soil | LS 1 | collect sample from HSP to look for LS |
| 8/16/04 | 0 | 6:42 | ls | | soil | LS 2 | collect sample from HSP to look for LS |
| 8/16/04 | 0 | 6:45 | ls | | soil | LS 3 | collect sample from HSP to look for LS |
| 8/16/04 | 0 | 6:50 | ls | | soil | LS 4 | collect sample from HSP to look for LS |
| 8/16/04 | 0 | 7:30 | | | | | offsite |
| | | | | | | | |

| Daily Activity Log | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|
| Site: | Safeway | Client: | CGRS | Client Contact | | |
| Site Address: | 5400 Dewey Drive | | Fair Oaks, CA | Contact # | | |
| TEST DATES | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet |
| | Day Summary: | | | | | |

| Daily Activity Log | | | Job# | 37382 | | |
|---|---|---|---|---|---|---|
| Site: | Safeway | Client: | CGRS | Client Contact | | |
| Site Address: | 5400 Dewey Drive | | Fair Oaks, CA | Contact # | | |
| TEST DATES | 8/17/04 | # DAYS | 2 | | Log Completed By: | Quinley/Paszkiet |

| Date: | Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Description |
|---|---|---|---|---|---|---|---|
| 8/17/04 | 0 | 7:00 | | | | | Arrived on Site |
| 8/17/04 | 0 | 7:05 | | | | | Tailgate Safety Meeting |
| 8/17/04 | 0 | 7:10 | | | | | Started Prep for DSL Vent Primary Innoculation and Sump/UDC Sampling |
| 8/17/04 | 0 | 8:05 | LS | HSP | soil | LS 1 | Sampled for Leak Sim. |
| 8/17/04 | 0 | 8:08 | LS | HSP | soil | LS 2 | Sampled for Leak Sim. |
| 8/17/04 | 0 | 8:12 | LS | HSP | soil | LS 3 | Sampled for Leak Sim. |
| 8/17/04 | 0 | 8:15 | LS | HSP | soil | LS 4 | Sampled for Leak Sim. |
| 8/17/04 | 0 | 8:30 | | | | | begin bowing out sumps and cover |
| 8/17/04 | 0 | 9:15 | | | | | All UDC's were Blown Out and Covered. |
| 8/17/04 | 1 | 9:20 | | | | | Soap Test found Leak on the ATG Cap's Electrical Fitting in the 87 TS and DSL TS. |
| 8/17/04 | 0 | 9:40 | 87 tk | | | | release pressure from the 87 tk to make repairs |
| 8/17/04 | 0 | 9:30 | dsl vent | | | | would not hold vacuum or pressure on the primary, there is a leak in the riser assoc. with the vent line that is leaking, but the line would hold now pressure, will blow bag of 2nd to check, the extractor plug may not be holding either |
| 8/17/04 | 0 | 9:40 | | | | | contractor begin to fix all the leaks |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 3 | 10:40 | udc | final | udc | udc 1 | collect sample from udc |
| 8/17/04 | 3 | 10:42 | udc | final | udc | udc 2 | collect sample from udc |

| Daily Activity Log | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | | Client: | CGRS | | Client Contact | |
| Site Address: | | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | |
| TEST DATES | | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet |
| 8/17/04 | 3 | 10:44 | udc | final | udc | udc 3 | collect sample from udc |
| 8/17/04 | 3 | 10:46 | udc | final | udc | udc 4 | collect sample from udc |
| 8/17/04 | 3 | 10:48 | udc | final | udc | udc 5 | collect sample from udc |
| 8/17/04 | 3 | 10:53 | udc | final | udc | udc 6 | collect sample from udc |
| 8/17/04 | 0 | 11:00 | | | | | trying to figure out where the hsp go, there is some questions, so CGRS is sending some one out |
| 8/17/04 | 0 | 11:55 | 91 tk | final | TS | | blow out and cover 91 TS |
| 8/17/04 | 0 | 12:05 | 91 tk | final | FVS | | blow out and cover 91 FVS |
| 8/17/04 | 0 | 12:05 | | | | | contractor still fixing the leaks |
| 8/17/04 | 0 | 12:10 | | | | | begin taking HSP samples that follow product lines |
| 8/17/04 | 0 | 12:55 | 91 tk | final | TS | 91 TS sample | collect sample from the TS |
| 8/17/04 | 0 | 12:58 | 91 tk | final | FVS | 91 FVS sample | collect sample from the FVS |
| 8/17/04 | 0 | 1:20 | dsl vent | | | | seemed to have dsl vent fixed |
| 8/17/04 | 1 | 1:25 | 87 tk | | | | 87 tk atg cap and gramet still leaking |
| 8/17/04 | 0 | 2:20 | dsl vent | final | 1 | | finally got vent line to hold, innoc to .5psi byh using vac |
| 8/17/04 | 0 | 2:20 | tank sumps | | | | dsl, 91 atg caps still leaking; see leak log |
| 8/17/04 | 0 | 2:45 | | | | | **contractor can not get the atg caps to seal, always leak at .4 psi** |
| 8/17/04 | 3 | 3:00 | dsl vent | final | 1 | dsl vent 2nd fvs-vent | collect bag sample by blowing air-5 gal |
| 8/17/04 | 3 | 12:30 | HSP | final | soil | hsp d6-d2 5-20' | Sampled HSP from Disp6 to Disp2 (5'-20') |
| 8/17/04 | 3 | 12:33 | HSP | final | soil | hsp d6-d2 25-40' | Sampled HSP from Disp6 to Disp2 (25'-40') |
| 8/17/04 | 3 | 12:36 | HSP | final | soil | hsp d6-d2 45-60 | Sampled HSP from Disp6 to Disp2 (45'-60') |
| 8/17/04 | 3 | 12:41 | HSP | final | soil | hsp d6-d2 65-80 | Sampled HSP from Disp6 to Disp2 (65'-80') |
| 8/17/04 | 3 | 12:45 | HSP | final | soil | hsp d6-d2 85' | Sampled HSP from Disp6 to Disp2 (85') |
| 8/17/04 | 3 | 13:12 | HSP | final | soil | hsp d3-d5 5-20' | Sampled HSP from Disp3 to Disp5 (5'-20') |
| 8/17/04 | 3 | 13:17 | HSP | final | soil | hsp d3-d5 25-40' | Sampled HSP from Disp3 to Disp5 (25'-40') |
| 8/17/04 | 3 | 13:22 | HSP | final | soil | hsp d3-d5 45-60' | Sampled HSP from Disp3 to Disp5 (45'-60') |
| 8/17/04 | 3 | 13:26 | HSP | final | soil | hsp d3-d5 65-80' | Sampled HSP from Disp3 to Disp5 (65'-80') |
| 8/17/04 | 3 | 13:30 | HSP | final | soil | hsp d3-d5 85-90' | Sampled HSP from Disp3 to Disp5 (85'-90') |
| 8/17/04 | 3 | 14:10 | HSP | final | soil | hsp d1-d3 5-20' | Sampled HSP from Disp1 to Disp3 (5'-20') |
| 8/17/04 | 3 | 14:15 | HSP | final | soil | hsp d1-d3 25-40' | Sampled HSP from Disp1 to Disp3 (25'-40') |

| Daily Activity Log | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | Client: | | CGRS | | Client Contact | |
| Site Address: | | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | |
| TEST DATES | | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet |
| 8/17/04 | 3 | 14:20 | HSP | final | soil | hsp d1-d3 45-60' | Sampled HSP from Disp1 to Disp3 (45'-60') |
| 8/17/04 | 3 | 14:25 | HSP | final | soil | hsp d1-d3 65-75' | Sampled HSP from Disp1 to Disp3 (65'-75') |
| 8/17/04 | 3 | 15:00 | HSP | final | soil | hsp tk pit-d6 5-20' | Sampled HSP from Tank Pit to Disp6 (5'-20') |
| 8/17/04 | 3 | 15:04 | HSP | final | soil | hsp tk pit-d6 25-40' | Sampled HSP from Tank Pit to Disp6 (25'-40') |
| 8/17/04 | 3 | 15:08 | HSP | final | soil | hsp tk pit-d6 45-60" | Sampled HSP from Tank Pit to Disp6 (45'-60') |
| 8/17/04 | 3 | 15:12 | HSP | final | soil | hsp tk pit-d6 65-80' | Sampled HSP from Tank Pit to Disp6 (65'-80') |
| 8/17/04 | 3 | 15:16 | HSP | final | soil | hsp tk pit-d6 85-100' | Sampled HSP from Tank Pit to Disp6 (85'-100') |
| 8/17/04 | 3 | 15:20 | HSP | final | soil | hsp tk pit-d6 105-120' | Sampled HSP from Tank Pit to Disp6 (105'-120') |
| 8/17/04 | 3 | 15:25 | HSP | final | soil | hsp tk pit-d6 125-140' | Sampled HSP from Tank Pit to Disp6 (125'-140') |
| 8/17/04 | 3 | 15:30 | HSP | final | soil | hsp tk pit-d6 145-155' | Sampled HSP from Tank Pit to Disp6 (145'-155') |
| 8/17/04 | 0 | 16:05 | 91 tk | final | TS | | blow out and cover sump |
| 8/17/04 | 0 | 16:10 | dsl tk | final | ts | | blow out and cover sump |
| 8/17/04 | 0 | 16:13 | dsl tk | final | fvs | | blow out and cover sump |
| 8/17/04 | 0 | 16:16 | 87 tk | final | ts | | blow out and cover sump |
| 8/17/04 | 0 | 16:20 | 87 tk | final | fvs | | blow out and cover sump |
| 8/17/04 | 0 | | | | | | from 12:30 to 4:00 filled each tank at least 3 times with helium to see if we fixed atg caps, the leak rate s right at the limit. We bagged the atg to make sure nothing else in the sumps was leaking |
| 8/17/04 | 3 | 5:05 | 91 ts | final | ts | 91 ts | collect sump sample |
| 8/17/04 | 3 | 5:08 | dsl ts | final | ts | dsl ts | collect sump sample |
| 8/17/04 | 3 | 5:12 | dsl fvs | final | fvs | dsl fvs | collect sump sample |
| 8/17/04 | 3 | 5:15 | 87 ts | final | ts | 87 ts | collect sump sample |
| 8/17/04 | 3 | 5:18 | 87 fvs | final | FVS | 87 fvs | collect sump sample |
| 8/17/04 | 3 | 5:33 | vent | final | udc | vent udc | colect sump udc sample |
| 8/17/04 | 3 | 17:08 | HSP | final | soil | hsp 87tk loop 5-20' | Sampled HSP from 87 Tank Loop (North to South); 5'-20' |
| 8/17/04 | 3 | 17:12 | HSP | final | soil | hsp 87tk loop 25-40' | Sampled HSP from 87 Tank Loop (North to South); 25'-40' |
| 8/17/04 | 3 | 17:16 | HSP | final | soil | hsp 87tk loop 45-60' | Sampled HSP from 87 Tank Loop (North to South); 45'-60' |

| Daily Activity Log | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | | Client: | CGRS | | Client Contact | |
| Site Address: | | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | |
| TEST DATES | | 8/16/04 | # DAYS | 1 | | Log Completed By: | Quinley/Paszkiet |
| 8/17/04 | 3 | 17:20 | HSP | final | soil | hsp 87tk loop 65-80' | Sampled HSP from 87 Tank Loop (North to South); 65'-80' |
| 8/17/04 | 3 | 17:24 | HSP | final | soil | hsp 87tk loop 85-100' | Sampled HSP from 87 Tank Loop (North to South); 85'-100' |
| 8/17/04 | 3 | 17:28 | HSP | final | soil | hsp 87tk loop 105-110' | Sampled HSP from 87 Tank Loop (North to South); 105'-110' |
| 8/17/04 | 3 | 17:48 | HSP | final | soil | hsp 91tk loop 5-20' | Sampled HSP from 91 Tank Loop (North to South); 5'-20' |
| 8/17/04 | 3 | 17:52 | HSP | final | soil | hsp 91tk loop 25-40' | Sampled HSP from 91/DSL Tank Loop (North to South); 25'-40' |
| 8/17/04 | 3 | 17:56 | HSP | final | soil | hsp 91tk loop 5-20' | Sampled HSP from 91/DSL Tank Loop (North to South); 45'-60' |
| 8/17/04 | 3 | 18:00 | HSP | final | soil | hsp 91tk loop 5-20' | Sampled HSP from 91/DSL Tank Loop (North to South); 65'-80' |
| 8/17/04 | 3 | 18:04 | HSP | final | soil | hsp 91tk loop 5-20' | Sampled HSP from 91/DSL Tank Loop (North to South); 85'-100' |
| 8/17/04 | 3 | 18:08 | HSP | final | soil | hsp 91tk loop 5-20' | Sampled HSP from 91/DSL Tank Loop (North to South); 105'-110' |
| 8/17/04 | 0 | 18:30 | | | | | begin clean up and breakdown |
| 8/17/04 | 0 | 8:00 | | | | | offsite |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 0 | | | | | | |
| 8/17/04 | 0 | | | | | | |

| Day Summary: | |
|---|---|

| LEAK LOG | | | | Job# | 37382NC | | |
|---|---|---|---|---|---|---|---|
| Site: | Safeway | | Client: | CGRS | | Client Contact | Brian Greene |
| Site Address: | | 5400 Dewey Drive | | Fair Oaks, CA | | Contact # | (970) 420-6822 |
| Test Dates | | | | | | Log Completed By: | |

| DATE | Leak/Pass | Time | ITEM | Test | Tested | Sample ID | Rate: (ug/L - ppm) | Description |
|---|---|---|---|---|---|---|---|---|
| | 0 | | | | | | | |
| | 0 | | | | | | | |

Cut and paste leak info from daily logs

8/16/04

1. The 87 fill/spill drain is leaking
2. The 91 fill/spill bucket is leaking, the brass collar not tight

8/17/04

1. 87 fvs atg riser the top gramet
2. DSL fvs the atg riser the top gramet
3. DSL the riser to the vent line cap is leaking-repaired
4. 87 atg cap still leaking
5. Dsl atg riser still some small bubbles

6&7. Dsl and 91 atg cap still leaking; leaking from the rubber o ring in the cap to collar

# Praxair Services, Inc.

Technical Solutions for the Industrial World.

UCISCO Tracer Research Corrocon

## CERTIFICATION OF ELD[SM] TRACER TIGHT® TEST RESULTS

**Date:** 8/16-17/04

**Job #** 37382NC

**Prepared For:**
CGRS
P.O.Box 1489
Fort Collins, CO 80524

**Site Info:**
Safeway
5400 Dewey Drive
Fair Oaks, CA

Test Time Period 8/16-17/04

| SYSTEM | | TRACER | STATUS |
|---|---|---|---|
| Diesel Tank & Sumps | | A | Pass |
| 87 Tank & Sumps | | A | Pass |
| 91 Tank & Sumps | | A | Pass |
| Piping | 87 Primary | W | Pass |
| Piping | 91 Primary | W | Pass |
| Piping | Vapor Recovery/ Vent - Primary | W | Pass / Pass |
| Piping | Diesel - Primary | W | Pass |
| Piping | Diesel - Vent - Primary | W | Pass |
| Dispenser Sumps | | 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 ≥0.005gallons per hour with a Probability of Detection (PD) of 0.95 and Probability of false alarm of <0.05

Tester: Bryan Quinley CA Lic. # 03-1637

Signature: <See Original For Signature> Date:

I declare under penalty of perjury that I am a licensed tank tester in the State of California and 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 | FAIL |
|---|---|
| Criteria: | Criteria: |
| No Tracer Detected | Tracer Detected |

Office use only

Certification Confirmed by: Date:

# 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

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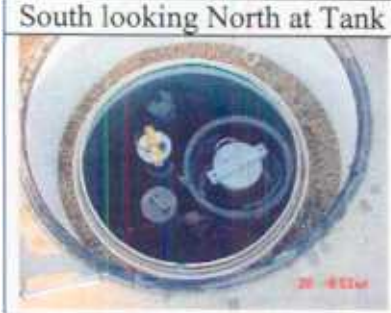
This new UST facility is located on the Southeast corner of Grant Line and Wilton Roads. The facility is branded a Chevron, but is privately owned. On August 5, 2004, Mr. Vince Bunac witnessed the installation of the Phil-Tite spill buckets at the proper torque settings (see attached e-mail). On August 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 competed 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 faciliy 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 |

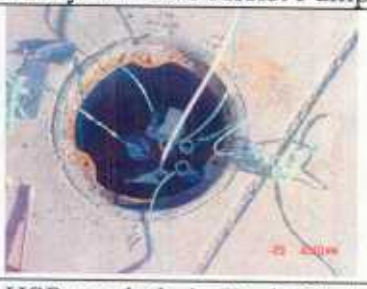
**APPENDIX III**

Shear Valves re-doped by manufacturer (OPW) to seal

New Wayne Dispenser

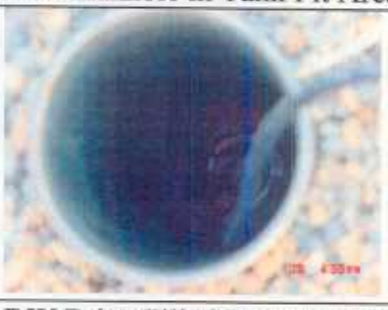
Healy VP 1000 Assist Pump

Healy Nozzle F4404

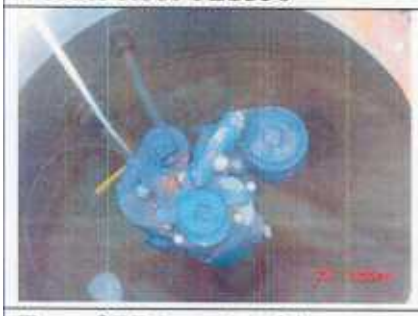


HSP manhole in Tank Pit Area

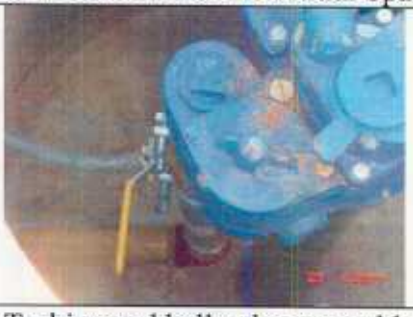
Veeder Root TLS350



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:** Helio Diaz

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

**MAKE NOTES IF YOU HAVE ANY UNBILLABLE HOURS**

**Total Billable Hours** 18.5 **Total Detected Leaks** 0

| | LINES | | | TANK | | | Tracer/He | Brine Start | Brine End |
|---|---|---|---|---|---|---|---|---|---|
| TEST Complete | 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)

| | | | | | |
|---|---|---|---|---|---|
| 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: | 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 | |
| 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 | 91fvrs | Tracers A and W |
| | 3 | 1553 | 91TK | Final | TS | 91fvrs | 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 malfuntioning 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 | DSLF-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 Roa | | 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 ELD[SM] TRACER TIGHT® TEST RESULTS

**ELD TEST TYPE:** Final

**Date:** 10-31-04

**Prepared For:**
Shirley
9595 Lucas Ranch Road
Rancho Cucamonga, CA

**Job #** 37561NC

**Site Info:**
Chevon
8995 Grant Line Road
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 | #1 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 ≥0.005gallons 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 | FAIL |
|---|---|
| Criteria: | Criteria: |
| No Tracer Detected | 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.

* Phile-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