

Environmental
Restoration
Contractor **ERC Team**
Meeting Minutes

0049951

041900
Job No. 22192
Written Response Required? NO
Closes CCN: N/A
OU: 200-ZP-2
TSD: N/A
ERA: CCM
Subject Code: 4170, 4170

SUBJECT 200-ZP-1 and 200-ZP-2 Status
TO Distribution
FROM V. J. Rohay *VJR 2/21/97*
DATE February 13, 1997

RECEIVED
FEB 24 1997
DOE-RL/DIS

ATTENDEES

V. J. Rohay H9-11
J. R. Freeman-Pollard H9-12
M. A. Buckmaster H0-19
G. R. Chiamonte H9-12
A. C. Tortoso H0-12
D. A. Faulk B5-01

DISTRIBUTION

Attendees
Document and Info Services H0-09



A meeting on the above subject was held on February 10, 1997, at Sigma II, Cougar Room. The agenda is included as Attachment 1.

200-ZP-2 Rebound Study

V. J. Rohay provided a graph illustrating the maximum carbon tetrachloride rebound concentration, as of 1/29/97, at each monitoring point as a function of depth (Attachment 2). During the first thirteen weeks of the rebound study, carbon tetrachloride concentrations have remained less than 3 ppmv at monitoring points between the ground surface and approximately 10 m depth in the area remediated using soil vapor extraction. The highest carbon tetrachloride concentrations, between 100 and 600 ppmv, have been observed at wells and monitoring probes between approximately 27 and 40 m below ground surface, near the Plio-Pleistocene fine-grained soils and "caliche layer." Carbon tetrachloride vapor concentrations near the water table, between 56 and 64 m below ground surface, have not exceeded 35 ppmv. Concentrations at some monitoring locations exhibit fluctuations which appear to be related to fluctuations in barometric pressure.

V. J. Rohay stated that during January 1997, all wells and soil gas probes identified for use in the rebound study were monitored once per month. In addition, 15 wells/probes with widely fluctuating carbon tetrachloride concentrations were monitored twice per month. Carbon tetrachloride monitoring during February 1997 will follow the same monthly/bimonthly schedule. The rebound data will be evaluated during February to determine whether additional "mini-tests" lasting two to three weeks could be cost-effectively implemented in March to fill data gaps. Monitoring at shallow probes (once/month) and deep probes (twice/month) will continue during March to confirm that carbon tetrachloride is not migrating out of the vadose zone into either the ambient air or groundwater. The data will also be analyzed to formulate a plan for restart of the soil vapor extraction systems.

200-ZP-1

M. A. Buckmaster provided an update on the 200-ZP-1 pump-and-treat remediation (Attachment 3). To date, the 200-ZP-1 Treatment System has removed 290 kg of carbon tetrachloride. During the past week, the flow rate from the three extraction wells averaged 150 gallons per minute, or 1.4 million gallons per week; and current (2/5/97) carbon tetrachloride influent concentrations (Tank T-01) averaged 3900 ppb. The problem with the leak detection system has been corrected, and 24-hour-per-day operations have resumed; system availability was 91% for the past week. Field work is progressing on installation of the piping system for Phase III operations. The injection piping trenches have been dug, and extraction piping trenchwork is ongoing. The last three extraction wells are scheduled to be on-line by August 1997.

Future Status Meetings

The next status meeting on the 200-ZP-1 and 200-ZP-2 projects will be held on March 17, 1997.

AGENDA
200-ZP-1 and 200-ZP-2 STATUS
FEBRUARY 10, 1997

200-ZP-2 Rebound Study

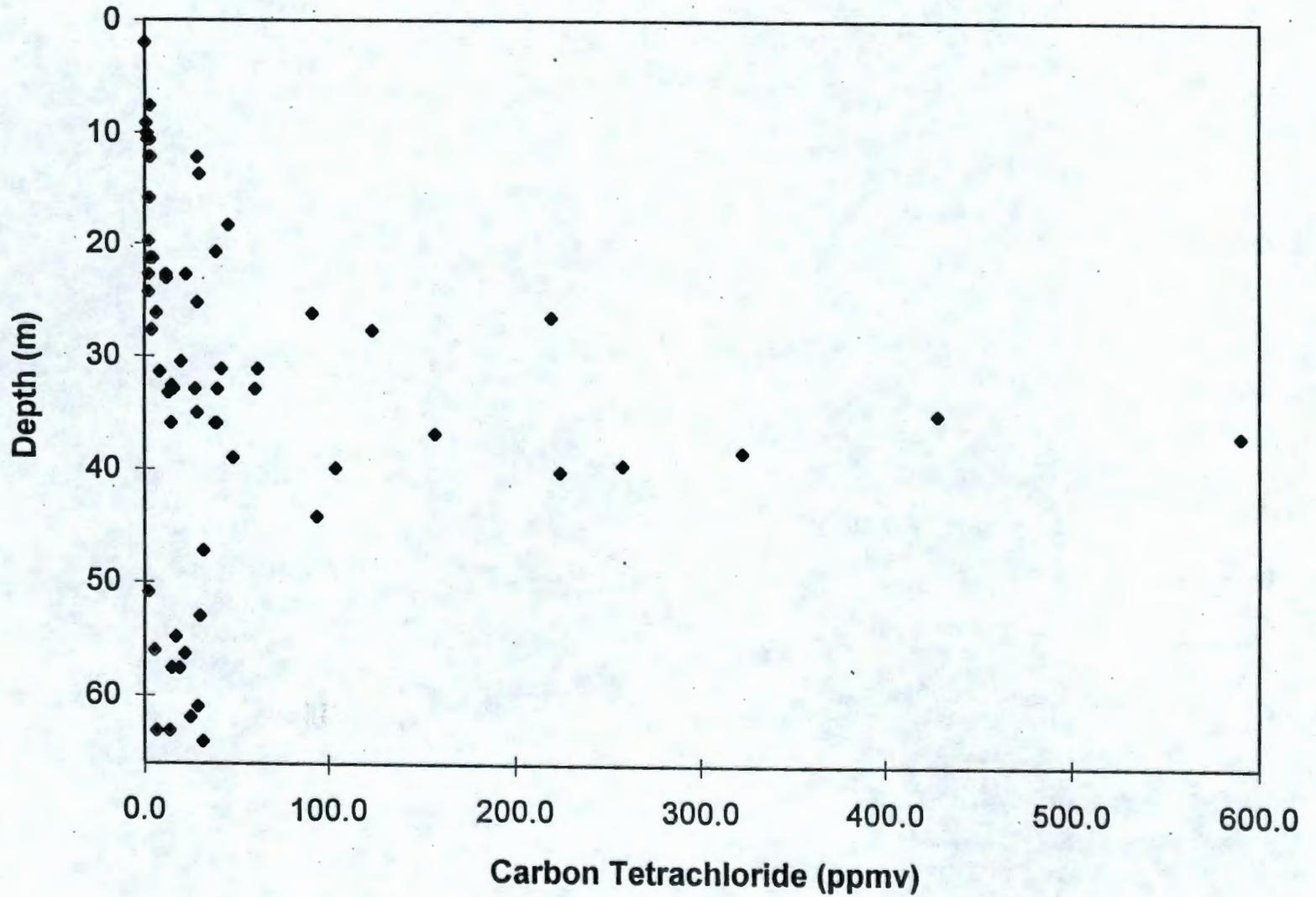
- Review of Rebound Study Data
- Schedule

Continue monthly/bimonthly monitoring schedule in February
Continue monitoring very shallow and deep probes in March
Review data gaps to evaluate need for "mini-tests" in March
Increase data analysis to formulate plan for restart

200-ZP-1 Pump-and-Treat Remediation

Maximum Carbon Tetrachloride Rebound 11/4 - 1/29

sand
gravel
sand
gravel
silt
caliche
gravel





**200-ZP-1
WEEKLY OPERATION SUMMARY**

System Runtime (hrs)	Avg. Flow (gpm)	Avg. Flow (gpm)	Avg. Flow (gpm)	Weekly Process (gals)	Avg. RH (%)	Avg. Airflow (scfm)	Avg Air Temp (F)	CCl ₄ Removed kg/ (lbs)	Sys. Avail Week (%)	Sys. Avail Oct.TD (%)	Sys. Avail 8/5/96 (%)	CCl ₄ YTD 8/5/96 kg/ (lbs)	Groundwater Treated 8/5/96 Total (gals)
153.5	<u>WE01</u> 30.7	<u>WE02</u> 42.2	<u>WE03</u> 80.1	1,409,130	33.2	535	69.8	20.9/ (45.9)	91.4	78.3	76.7	289.5/ (636.8)	27,101,805



200-ZP-1
WEEKLY SAMPLING SUMMARY

Sample Date	WE01 W15-33 Conc. (ppb)	WE02 W15-34 Conc. (ppb)	WE03 W15-35 Conc. (ppb)	T-01 Ext Tank Conc. (ppb)	V-01 Stripper Conc. (ppb)	T-02 Inj. Tank Conc. (ppb)	H-01 Inf. Vapor Conc. (ppm)	A-3 Eff. Vapor Conc. (ppm)
2-5-97	5500 CCl ₄ 24 TCM 11 TCE	3300 CCl ₄ 14 TCM 12 TCE	3700 CCl ₄ 16 TCM 5.1 TCE	3900 CCl ₄ 17 TCM 8 TCE	4.8 CCl ₄ <2 TCM <2 TCE	4.6 CCl ₄ <2 TCM <2 TCE	14	*

* No Effluent emission vapor due to recirculating air configuration.

