

CORRES. CONTROL
OUTGOING LTR NO.

DOE ORDER#

94 RF 00760



00002 2937

EG&G ROCKY FLATS, INC.
ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

January 18, 1994

94-RF-00760

Richard J. Schassburger
Acting Director
Environmental Restoration Division
DOE, RFO

Attn: J. Pepe

OPERABLE UNIT NOS. 1, 2, 5, 6 AND 7 SOIL VAPOR SURVEYS - NMH-008-94

On January 10, 1994, Mr. T. Reeves, on behalf of the Department of Energy, Rocky Flats Office, requested a summary of the subcontractors and operating procedures utilized by EG&G in performing soil vapor surveys (SVSs). Attached is a summary of the subcontractors, equipment and analytical methods that were employed for the SVS work conducted at Operable Unit (OU) Nos. 1, 2, 5, 6 and 7. Other project specific information is also included. The surveys conducted at these operable units followed the procedures listed at the bottom of page two.

If you have questions or require further information, please contact D. W. Pontius of Environmental Engineering & Technology at X8616.

N. M. Hutchins
N. M. Hutchins
Director
Environmental Science & Engineering

DWP:cet

Attachment:
As Stated

cc:
E. A. Dillé - DOE/RFO
S. R. Grace - DOE/RFO
A. H. Pauole - DOE/RFO
J. Pepe - DOE/RFO
T. Reeves - DOE/RFO
M. N. Silverman - DOE/RFO

DIST.	LTR	ENC
AMARAL, M.E.		
BENEDETTI, R.L.		
BENJAMIN, A.		
BERMAN, H.S.		
BRANCH, D.B.		
CARNIVAL, G.J.		
COPP, R.D.		
DAVIS, J.G.		
FERRERA, D.W.		
HANNI, B.J.		
HARMAN, L.K.		
HEALY, T.J.		
HEDAHL, T.		
HILBIG, J.G.		
HUTCHINS, N.M.	X	X
KIRBY, W.A.		
KUESTER, A.W.		
MAHAFFEY, J.W.		
MANN, H.P.		
MARX, G.E.		
McDONALD, M.M.		
McKENNA, F.G.		
MONTROSE, J.K.		
MORGAN, R.V.		
POTTER, G.L.		
PIZZUTO, V.M.		
RISING, T.L.		
SANDLIN, N.B.		
SETLOCK, G.H.		
STEWART, D.L.		
SULLIVAN, M.T.		
SWANSON, E.R.		
WILKINSON, R.B.		
WILLIAMS, S.(ORC)		
WILSON, J.M.		
WYANT, R.D.		
<i>Anderson, G.M.</i>	X	
HOPKINS, J. K.	X	
BUSBY, W.S.	X	X
<i>Pontius, D.W.</i>	X	X
HOJK, R.Z.	X	X
LAURIN, P.J.	X	X
MAST, E.C.	X	X
CORRES. CONTROL	X	X
ADMN RECORD/080	X	X
PATS/T130G		
TRAFFIC		
O'ROURKE, T.P.	X	X
CLASSIFICATION:		
UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER
DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO:

ACTION ITEM STATUS

PARTIAL/OPEN
 CLOSED

LTR APPROVALS:

DATE & TYPIST INITIALS

W.P./cet

OPERABLE UNIT 1, 2, 5, 6 AND 7 SOIL VAPOR SURVEYS

- OU2 (Phase I) IHSS Nos. 110, 112, and 113.
Work Performed By: Walsh & Assoc. thru Advanced Sciences, Inc. (ASI)
Analytes Tested: Carbon Tetrachloride (CCl₄), 1,1-Dichloroethane (DCA), 1,2-DCA, 1,1-Dichloroethene (DCE), cis & trans 1,2-DCE, Tetrachloroethene (PCE), Trichloroethene (TCE), and Vinyl Chloride.
Field Work Conducted: June, 1993.
Equipment Used to Perform Analysis: Hewlett-Packard (H-P) 5890A GC equipped with a Photoionization Detector/Electron Capture Detector (PID/ECD) systems and RESTEK Rtx GC column for analyte separation.
Analytical Method Employed: EPA Modified 8020
Quality Control: Level II
Number Locations Tested: 120
Deviations From Procedures: None reported.
- OU2 (Phase IIA) IHSS Nos. 109, 110, 111.1, 112, and 113.
Work Performed By: GEO Environmental, Inc. thru Metcalf & Eddy
Analytes Tested: CCl₄, 1,1-DCA, PCE, and TCE.
Field Work Conducted: November, 1993.
Equipment Used to Perform Analysis: H-P 5890 Series II GC equipped with PID/ECD systems and capillary column for analyte separation.
Analytical Method Employed: EPA Modified 8010.
Quality Control: Level II
Number Locations Tested: 60
Deviations From Procedures: None reported.
- OU2 (Phase IIB) IHSS Nos. 119.1 (OU1), 109, 110, 111.1, 112, 113.
Work Performed By: GEO Environmental, Inc. thru Metcalf & Eddy
Analytes Tested: CCl₄, 1,1-DCA, 1,1-DCE, PCE, TCE, and Toluene.
Field Work Conducted: December, 1993.
Equipment Used to Perform Analysis: Same as Phase IIA.
Analytical Method Employed: EPA Modified 8010/8020.
Quality Control: Level II
Number Locations Tested: 40
Deviations From Procedures: None reported.
- OU5 IHSS No. 115 (Original Landfill)
Work Performed By: Walsh & Assoc. thru ASI
Analytes Tested: Benzene, CCl₄, Dichloromethane, PCE, 1,1,1-Trichloroethane, TCE
Field Work Conducted: February, 1993
Equipment Used to Perform Analysis: Same as OU2 Phase I
Analytical Method Employed: EPA Modified 8020
Quality Control: Level II
Number Locations Tested: 370
Deviations From Procedures: None reported.

- **OU6 IHSS No. 165 (Triangle Area)**
Work Performed By: GEO Environmental, Inc. thru Woodward-Clyde
Analytes Tested: Acetone, 2-Butanone, CCl₄, Chloroform, DCA, PCE, TCE, Toluene
Field Work Conducted: October, 1992
Equipment Used to Perform Analysis: Same as OU2 Phase IIA
Analytical Method Employed: EPA Modified 8010/8020
Quality Control: Level II
Number Locations Tested: 56
Deviations From Procedures: None reported.
- **OU7 IHSS No. 203 (Inactive Hazardous Waste Storage Area)**
Work Performed By: Walsh & Assoc. thru S. M. Stoller
Analytes Tested: Acetone, Cis & Trans 1,2-DCE, Hydrogen Sulfide, Methylene Chloride, 1,1,1-TCA, TCE, Toluene, and Xylene
Field Work Conducted: December, 1992
Equipment Used to Perform Analysis: Same as OU2 Phase I
Analytical Method Employed: EPA Modified 8020
Quality Control: Level II
Number Locations Tested: 50
Deviations From Procedures: None reported.

The following is a list of EG&G Standard Operating Procedures (SOPs) that were followed while the soil vapor survey work was conducted at the above referenced Operable Units. Deviations from the procedures are as noted above.

OPS-GT.09, Soil Gas Survey
OPS-FO.03, General Equipment Decontamination
OPS-FO.04, Heavy Equipment Decontamination
OPS-FO.06, Handling of PPE
OPS-FO.07, Handling of Decontaminated Water & Wash Water
OPS-FO.08, Handling of Drilling Fluids and Cuttings
OPS-FO.10, Receiving, Labeling, and Handling of Environmental Materials Containers
OPS-FO.12, Decontamination Facility Operations
OPS-FO.15, Photoionization Detectors and Flame Ionization Detectors
OPS-FO.16, Field Radiation Measurements