

SPARTON**SPARTON TECHNOLOGY**

Via Facsimile

February 25, 1997

Mr. Angel Martinez
Air Pollution Control Division
Environmental Health Department
City of Albuquerque
PO Box 1293
Albuquerque, New Mexico 87103

Re: Soil Vapor Extraction Pilot Test.

Dear Mr. Martinez:

As discussed via telephone with John Wakefield on Monday, 2-24-97, Sparton Technology, Inc. is planning to conduct a pilot test in conjunction with NMED-GWQB on our recently installed vapor recovery wells. This test is to evaluate the feasibility of remediating solvent contaminated soil by a process called soil vapor extraction, (SVE). Mr. Rob Pine of NMED-GWQB will be monitoring the pilot test.

The 5 wells, designated VR-1 through 5 are located at our Coors Rd. Facility, (9621 Coors Rd. NW) An outside contractor, AcuVac, Inc. will have a trailer mounted SVE system at the site, see attached specification sheet for the operating performance of the SVE I-6. Project Engineer is Mr. Pierce Chandler of Black & Veatch, Inc. Testing will commence on Thursday (2-27-97) and end on Friday, (2-28-97). We anticipate that the equipment will run for approximately 10 hours each day. As listed on the SVE I-6 specification sheet the combustion efficiency with the 3 catalytic converters in series is 99.9% with <0.9 lbs. VOC/day. The equipment can produce a maximum of 120 cfm from a well and is one of the parameters that will be determined during this pilot test. AcuVac, Inc. has conducted approximately 10 SVE pilot tests within the City of Albuquerque and their low emission rates have been verified by City employees.

Attached is a faxed copy of preliminary analytical results for solvent vapor concentrations from each of these wells. This sampling was conducted on February 20, 1997 in conjunction with Mr. Rob Pine.

I understand that based on a telephone conversation that you had with John Wakefield on 2-24-96 you agreed to review this faxed request and try to respond expeditiously via facsimile prior to the commencement of Thursday's pilot test. We appreciate your willingness to give prompt attention to this matter.

If you have any questions please feel free to call Mr. Pierce Chandler at 214-770-1531 or John Wakefield at 892-5300.

Sincerely,
SPARTON TECHNOLOGY, INC.

John M. Wakefield For Richard D. Mico

Richard D. Mico
Vice President and General Manager

attachments:

cc: Mr. J. Appel
Mr. P. Chandler
Mr. R. Pine: NMED GWQB
Mr. J. Wakefield

Analytical Results For Vapor Recovery Wells 1-5

To: J. Appel
 P. Chandler
 R. Mico
 G. Richardson
 Date: 2-25-97
 From: J. Wakefield

Sampled: 6/25/96
 Split Samples taken with NMED-GWQB.
 Lab: AEN
 Method: 8010/8020, Soil Gas Samples
 File: VP1696.XLS

Well Number	VR-1	VR-2	VR-3	VR-4	VR-5	Avg. VP-1
Date Sampled	2/20/97	2/20/97	2/20/97	2/20/97	2/20/97	6/25/96
Analyte concentration mg/m3						
Trichloroethene	7400	3600	870	3800	2300	16983
1,1,1-Trichloroethane	1200	1200	220	1600	810	4967
1,1-Dichloroethene	250	150	87 E	94	130 E	290
Tetrachloroethene	300	120	27	22	26	250
Toluene	7500	<5.0	<1.0	<2.5	<2.5	1870
Xylene, total	1100	<5.0	<1.0	<2.5	<2.5	264
Ethylbenzene	350	<5.0	<1.0	<2.5	<2.5	119
Trans 1,3-Dichloropropene	<20	<2.0	<0.4	<1.0	<1.0	15
Benzene	<50	<5.0	<1.0	<2.5	<2.5	25
1,1-Dichloroethane	<30	<3.0	<0.6	<1.5	<1.5	14
1,1,2-Trichloroethane	26	2.2	0.5	<1.0	<1.0	ND
1,2-Dibromoethane	54	5.5	1.1	<1.0	<1.0	ND
Dibromochloromethane	25	2.9	0.6	<1.0	<1.0	ND

E = Estimated Value, overrange for instrumentation
 ND = Not detected

Vapor Probe-1 Analytical Results Sampled on 6-25-96

Sampling Zone	1	2	3	4	5	6	MW-16*
Depth below surface ft.	10	20	30	40	50	60	66.9
Analyte concentration mg/m3							ppb
Trichloroethene	18000	21000	24000	22000	8200	8700	7400
1,1,1-Trichloroethane	4800	5800	6500	6300	3100	3300	1800
1,1-Dichloroethene	150	200	230	340	360	460	170
Tetrachloroethene	290	300	320	310	120	160	54
Toluene	1500	6800	4600	110	70	6.4	<5.0
Xylene, total	350	710	610	140	<25	<5	<5.0
Ethylbenzene	260	220	220	100	<25	<5	<5.0
Trans 1,3-Dichloropropene	30	<10	32	<10	<10	6.7	<5.0
Benzene	<25	<25	<25	<25	62	<5	<5.0
1,1-Dichloroethane	<15	<15	<15	<15	<15	21	<5.0

*MW-16 groundwater sampled on 7/17/96 for Method 8240.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
 CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702347
 PROJECT # : 22097
 PROJECT NAME : VR-WELLS-1Q97

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	VR-2	AIR	2/20/97	NA	2/20/97	100
05	VR-1	AIR	2/20/97	NA	2/20/97	1000
PARAMETER	DET. LIMIT	UNITS	04	05		
BENZENE	0.05	MG/M ³	< 5.0	< 50		
BROMODICHLORMETHANE	0.02	MG/M ³	< 2.0	< 20		
BROMOFORM	0.05	MG/M ³	8.9	< 50		
BROMOMETHANE	0.10	MG/M ³	< 10	< 100		
CARBON TETRACHLORIDE	0.02	MG/M ³	< 2.0	< 20		
CHLORO BENZENE	0.05	MG/M ³	8.3	< 50		
CHLOROETHANE	0.05	MG/M ³	< 5.0	< 50		
CHLOROFORM	0.05	MG/M ³	< 5.0	< 50		
CHLOROMETHANE	0.10	MG/M ³	< 10	< 100		
DIBROMOCHLOROMETHANE	0.02	MG/M ³	2.9	25		
1,2-DIBROMOETHANE (EDB)	0.02	MG/M ³	5.5	54		
1,2-DICHLORO BENZENE	0.05	MG/M ³	< 5.0	< 50		
1,3-DICHLORO BENZENE	0.05	MG/M ³	< 5.0	< 50		
1,4-DICHLORO BENZENE	0.05	MG/M ³	< 5.0	< 50		
1,1-DICHLOROETHANE	0.03	MG/M ³	< 3.0	< 30		
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ³	< 5.0	< 50		
1,1-DICHLOROETHENE	0.02	MG/M ³	150 D(2000)	250		
cis-1,2-DICHLOROETHENE	0.02	MG/M ³	< 2.0	< 20		
trans-1,2-DICHLOROETHENE	0.10	MG/M ³	< 10	< 100		
1,2-DICHLOROPROPANE	0.02	MG/M ³	< 2.0	< 20		
cis-1,3-DICHLOROPROPENE	0.05	MG/M ³	< 5.0	< 50		
trans-1,3-DICHLOROPROPENE	0.02	MG/M ³	< 2.0	< 20		
ETHYLBENZENE	0.05	MG/M ³	< 5.0	350		
METHYL-t-BUTYL ETHER	0.25	MG/M ³	< 25	< 250		
METHYLENE CHLORIDE	0.20	MG/M ³	< 20	< 200		
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ³	< 5.0	< 50		
TETRACHLOROETHENE	0.05	MG/M ³	120	300		
TOLUENE	0.05	MG/M ³	< 5.0	7500		
1,1,1-TRICHLOROETHANE	0.10	MG/M ³	1200 D(2000)	1200 D(2000)		
1,1,2-TRICHLOROETHANE	0.02	MG/M ³	2.2	25		
TRICHLOROETHENE	0.03	MG/M ³	3600 D(2000)	7400 D(2000) E		
TRICHLOROFLUOROMETHANE	0.02	MG/M ³	< 2.0	< 20		
VINYL CHLORIDE	0.05	MG/M ³	< 5.0	< 50		
TOTAL XYLENES	0.05	MG/M ³	< 5.0	1100		
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ³	< 4.0	< 10		

SURROGATE:

BROMOCHLOROMETHANE (%)		90	94
SURROGATE LIMITS	(73 - 117)		
TRIFLUOROTOLUENE (%)		89	92
SURROGATE LIMITS	(69 - 117)		

CHEMIST NOTES:

D(2000) = 2000X DILUTION ANALYZED ON 2/21/97 E = ESTIMATED VALUE, OVERRANGE FOR INSTRUMENTATION

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)
 CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702347
 PROJECT # : 22097
 PROJECT NAME : VERMILIO 1997

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	VR-3	AIR	2/20/97	NA	2/20/97	20
02	VR-5	AIR	2/20/97	NA	2/20/97	50
03	VR-4	AIR	2/20/97	NA	2/20/97	50

PARAMETER	DET. LIMIT	UNITS	01	02	03
BENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
BROMODICHLORMETHANE	0.02	MG/M ³	< 0.4	< 1.0	< 1.0
BROMOFORM	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
BROMOMETHANE	0.10	MG/M ³	< 2.0	< 5.0	< 5.0
CARBON TETRACHLORIDE	0.02	MG/M ³	0.5	< 1.0	< 1.0
CHLOROBENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
CHLOROETHANE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
CHLOROFORM	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
CHLOROMETHANE	0.10	MG/M ³	< 2.0	< 5.0	< 5.0
DIBROMOCHLOROMETHANE	0.02	MG/M ³	0.6	< 1.0	< 1.0
1,2-DIBROMOETHANE (EDB)	0.02	MG/M ³	1.1	< 1.0	< 1.0
1,2-DICHLOROBENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
1,3-DICHLOROBENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
1,4-DICHLOROBENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHANE	0.03	MG/M ³	< 0.8	< 1.5	< 1.5
1,2-DICHLOROETHANE (EDC)	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
1,1-DICHLOROETHENE	0.02	MG/M ³	87 E	130 E	94
cis-1,2-DICHLOROETHENE	0.02	MG/M ³	< 0.4	< 1.0	< 1.0
trans-1,2-DICHLOROETHENE	0.10	MG/M ³	< 2.0	< 5.0	< 5.0
1,2-DICHLOROPROPANE	0.02	MG/M ³	< 0.4	< 1.0	< 1.0
cis-1,3-DICHLOROPROPENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
trans-1,3-DICHLOROPROPENE	0.02	MG/M ³	< 0.4	< 1.0	< 1.0
ETHYLBENZENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
METHYL-t-BUTYL ETHER	0.25	MG/M ³	< 5.0	< 13	< 13
METHYLENE CHLORIDE	0.20	MG/M ³	< 4.0	< 10	< 10
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
TETRACHLOROETHENE	0.05	MG/M ³	27	26	22
TOLUENE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
1,1,1-TRICHLOROETHANE	0.10	MG/M ³	220 D(1000)	810 D(2000)	1600 D(2000)
1,1,2-TRICHLOROETHANE	0.02	MG/M ³	0.5	< 1.0	< 1.0
TRICHLOROETHENE	0.03	MG/M ³	870 D(1000)	2300 D(2000)	3800 D(2000)
TRICHLOROFLUOROMETHANE	0.02	MG/M ³	< 0.4	< 1.0	< 1.0
VINYL CHLORIDE	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
TOTAL XYLENES	0.05	MG/M ³	< 1.0	< 2.5	< 2.5
TRICHLOROTRIFLUOROETHANE	0.20	MG/M ³	< 4.0	< 10	< 10

SURROGATE:
 BROMOCHLOROMETHANE (%) 86 88 89
 SURROGATE LIMITS (73 - 117)
 TRIFLUOROTOLUENE (%) 93 88 89
 SURROGATE LIMITS (69 - 117)

CHEMIST NOTES:
 D(1000) = 1000X DILUTION ANALYZED ON 2/21/97, D(2000) = 2000X DILUTION ANALYZED 2/21/97
 E = ESTIMATED VALUE, OVERRANGE FOR INSTRUMENTATION

FACSIMILE from



SPARTON TECHNOLOGY, INC.

subsidiary of SPARTON CORPORATION
An ISO 9001 registered company

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Date: 2-25-97

Number of pages including this page: 5

TO: Rob Pinc

FROM: John Wakefield

PHONE: 505 827 0178
FAX PHONE: 2965

Sparton Technology, Inc.
PHONE: 505-892-5300
FAX PHONE: 505-892-5515

SUBJECT: Pilot Test

Your copy of correspondence to Angel Martinez at City of Abq. Air Pollution Control Division. Also preliminary data on VR sampling with summary table. Did not include AcutVac SVE I-G specifications. See you Thursday

Thx JMW