MAY.	14. 2001		AM)(JUEN	SAN	DIF	UU,		,	. ,	 SYS	SIS	v. 03	00.	I. 3		
RELI	T T T T T T T T T T T T T T T T T T T	сатея: Дб-Венгене					÷.				SLSVIGSOI 4	SUSUZOSO!	5V 15SP()	ENSWASON HI	SAMPLE ID-Depth(ft)	PJ	
RELINQUISHED BY	RELINQUISHED BY:	пгене	*	:									45	μ_{I}	ID-Depth	PROJECT Rocketayne	ب
	.1	D8-Го і мене									RN 795	RV-94	RV 793	RN 792	1) 20 1- 10	Rocke	LLYC
	Monor Pht	D-Chloroform										7/26/00	4	7/26/00	INSTALLED	dyne	<i>isyaloocospe</i> c
RECEIVED DY	RECEIVED BY	mD6-DMK									1537-1548	1519-1529	1455-1507	1434-1445	SAMPLED	CLIENT_	E RIN DOLL
DY	ву	D-DCM									6	74	AZO	NIT	BULB	NT Ogden	, ,
											150	150	150	150	FLOW ml/min	(e)	
		The state of the s										10	12		TIME		
DATE/TIME	DATE/TIME														Purge Vol		0
ME	Æ.										1	7	1	7	Teak Check	DATE_	}
											←	S. IN	+	5.2	MISC Sumo	7/31/60_	
	1										55	56	14	18a	# 53N)

14-12

RELINQUISHED BY	RELINQUISHED BY Mound 1 8	SURROGATES D6-BenzeneD8-Toluene	In the second se							5' RV833		SAMPLE ID-Depth(ft)	PROJECT Kocketdyme
,	18to	D-Chloroform								8/3/00	8/3/00	INSTALLED	NO
RECEIVED BY	RECEIVED BY	nD6-DMK								1508-142-	1504-1428	B	CLIENT
YY	N. S.	D-DCM								4	$ \omega $	BULB BULB	G
	1)50	150	mUmin	en
										प्	/대	TIME min	
DATE/TIME	DATE/TIN									100 m	(m~(Purge Vol	
Æ	DATE/TIME_ 9/4/80									< <u></u>		Tak Check	DATE 8
	1545									4.7	4.7	MARC SEIN	8/4/00
										99	qq	¥ 5.7v	

PROJECT Rocketdyne SAMPLE 10-Depth(tt) Onder Depth Fla	Ket dyne INSTALLED	CLIENT O	2	FI OW	TIME min	Purge	DATE 8/3/00 Top buttone SWI Leak Check SWI	/00 MISC	5
= 6	RV817 7/28/00	18-18-18-18-18-18-18-18-18-18-18-18-18-1	J2 A13	= 50	14	100ml		4.7	8%
CL 3 V 38 SØ3 21 RV	1/28/00 Not	128/00 1619-1636 AS	18/20					7	198
	*								
No.									
į.									
RELINQUISHED BY. Home		RECEIVED BY		tach	D	ATE/TIME	DATE/TIME 8/3/00	623	, of
RELINQUISHED BY_	Hambin	RECEIVED BY		my	Q D	DATE/TIME	E 8/3/00	1653	,

RELINQUISHED BY: Monor 1815	SURROGATES: D6-Benzene							SISV19SØ11 4 W 10	3	```	1	41 0N 797 7/22/00	SAMPLE ID-Depth(II) INSTALLED	PROJECT Rocketayine
RECEIVED BY	oformD6-DMK_	-							1537-1548	1579-1529	1455-1507	SAMI-HEMI	SAMPLED	CLIE
D BY	D-DCM								23	TH	AZO	NIT	BULB ID	CLIENT Ogden
									150	150	150	150	FLOW ml/min	les .
						The state of the s	. "			0	[2		TIME	
DATE/TIME					, and a second			A SELECT	<			100 m/	Purge Vol	
ME WIE		A separate of the second secon					,		l	1	1	7	Leak Check	DATE_
									<u></u>	6.5	←	5,2	MISC	7/31/00
1 1					NATIONAL NO.			-	53	56	111	180	ws.	

RELINO	RELINQI	SURROGATES: D6-Benzene								695 KSN3	148 11 843	FNSN 19501	SAMPLE ID-Depth(ft) Vaqyh	PRO
RELINORISHED RV	ISHED	re D8-Toluene								13/11/19	6 / 121 190	F. 80 750	-Depth(ft) D49円h 紹介D	PROJECT Rocketown
7	D	D-Chloroform								*		7/14/co	INSTALLED (Date or Time)	Layere
RECEIVED BY	RECEIV	D6-DMK								1343-1355	1321-1339	1304-1315	SANPLED (Times)	CLIEI
		D-DCM								85	813	A5	BULB ID	CLIENT Ogden
	DA									<u> </u> 3	100	50	ELOW mi/min	en
	DATE/TIME_									ū	18	=	T/M/E min	
									1 (250)	<		1007	Purge Vol	
										<		5,2	Boy Acad MISC Leak Cheek	DATE 7/31/80
							SCI SOLUTION			2	75	E	# S10	

 $PATE = \frac{1}{3} \frac{3}{3}$

RELINQUISHED BY	RELINQUISHED BY: ANDMON D	SURROGATES: D6-Benzene D8-Toluene.	Section with the section	resident difference	- Additional States	Supplied to the second			**:		.		2 11	LX5NØ5 SØ1 5' RN 787	SAMPLE ID-Depth(ft)	PROJECT Rocket dyne
	lowal litt	re D-Chloroform										-		7/26/00	INSTALLED	tayne
RECEIVED BY	RECEIVED BY	rmD6-DMK											1143-1157	1121-1132	SAMPLED	CLIE
BY	BY	D-DCM											22	XX	BULB	CLIENT Coden
	and a												150	150	FLOW ml/min	ten
									 - 				至	atta =	TIME	
DATE/TIME	DATE/TIME,														Purge Vol	
ME_	ME												1	7	Isobotane Leak Check	DATE_
	128 p 7												のカ	5.5	MISC K SWMN	7/3)/00
	12/00							distant.					Cå.	Ca.	MS	,

MHIST

			 	 		 	 	 	 	<u>ک</u>		2		1
RELINQUISHED BY	RELINQU	SURROGATES: D6-Benzene	,						730: 100	T4511 121/2	1811 NSM	PENSA 10 201	SAMPLE ID-Depth(ft) Depth	PROJ
ISHED E	ISHED E								-	100	6	٢,	Depth(1 Depth	ECT
YY	ix: Moo	D8-Toluene								10-N3	RN 790	RN 789	Depth(ft)	PROJECT Rocketagine
2	RELINQUISHED BY: MOMON A	D-Chloroform								4		7/19/00	INSTALLED (Date or Time)	Advine
RECEIVED BY	RECEIVED BY	m								1343-1355	1321-1339	1304-1315	SAMPLED (Times)	CLIE
	mus.	$ \mathcal{D}_{DCM}$						-		85	813	AS	BULB ID	CLIENT Ogden
D.	(D)									55	100	150	FLOW ml/min	3
DATE/TIME_	DATE/TIME_									Ū	18	11	TIME min	
	#									,			Purge Vol	
	アングイン				•					\ \		5.2	Leak Check Sw My	DATE 7/31/80
	J/51/00									7/	15	Z	手られ	

M4-15

RELINQUISHED BY:	SURROGATES: D6-Benzene D8-Toluene_				******	*		SLSVIPSOIL 4' RITMS	SLSV 20501 1, RV 794	4,80		SAMPLE ID-Depth(ft) Rep.H ₁ EPA (S	PROJECT Rocketayne
Monor State	D-Chloroform							(7/26/00	۴	7/26/00	INSTALLED	dyne
RECEIVED BY	m D6-DMK							1537-1548	1519-1529	1455-1507	1434-1445	SAMPLED	CLIENT
ву	D-DCM							<u>m</u>	ユ	AZO	N17	BULB ID	NT Ogden
r								150	150	/50	150	FLOW ml/min	ter
5									10	2	7	TIME	
DATE/TIME									,	1		Purge Vol	
								-		(/	Isobitane Leak Check S	DATE
400 p 71								←	N.	-	5,2	MISC Swmo	7/31/80
De /12							-	53	56	14/	189	UCS #	

14/57

N4151

RELINQUISHED BY	RELINQUISHED BY: Themas JAC	surrogates: D6-Benzene D8-Toluene_				**				CLSV42 SOI 6 RV802	CLSV42562 11 RV801	CLSV4(56) 1, 61200	SAMPLE ID-Depth(ft) Papta EPAID	PROJECT Rocketdyne
	max f &	D-Chloroform								7/31/00	7/31/00	7/31/00	INSTALLED	tayne
RECEIVED BY	RECEIVED BY	rm D6-DMK_								1058-1110	1048-1102	1043-1053	SAMPLED	CLIENT_
ВУ	N BY	D-DCM								S <u>1</u>	4(7	XX	BULB ID	
	men h									150	150	150	FLOW ml/min	Ogden
	h									(D)	14	91	TIME	
DATE/TIME	DATE/II				,					7	ī	/00ms	Purge Vol	
ME	ME_ 3/ 1/								 	7	7	7	Isobstane Leak Check	DATE_
	BATE/TIME \$/1/00 1200									١, (` 1	4.7	MISC ≲wwo	8/1/00
										93	93	38	VLS A	

RELINQUISHED BY	SHED BY. Minuch !!	ROGATES D6-Benzene D8-Toluene D-Chloroform					65			HSSVØ1502 115 RV807 7/27	-, -	6' RV805 -	815V\$5501 5 RV864 7/27	2 10'	SAMPLE ID-Depth(ft) INSTALLED	PROJECT Rocketdyna
RECEIVED BY	RECEIVED BY	oformD6-DMKD-DCM					0918-0930 X2	0756-0908 A13	0840-0851 EG	058-0712 YS	0642-0654 AS	0618-0630 A20	0603-0615 85	0549 - 0602 813	D SAMPLED BULB	CLIENT Ogden
							12	Ū		7	12	12	12	150 13	rionin min	len
DATE/TIME	DATE/TIME \$ 2/00						*	_					_	100ml V	E Purge Tsoby	DATE_
	2/00 1020						*		4.7	ATTAC	7.5	←		4.1	MEK SWAY	E \$/2/00
							75	87	80	W	58	$\widehat{\mathcal{A}}$	0	0	015 8	

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY Note: The state of the s

RELINQUISHED BY	RELINQUISHED BY ROMAS JEX	ROGATES. D6-Benzene D8-Toluene		,			-	4		CLSV36 RNSIN 15	CLSV37SØ RV813 3'		OI 118 ABI CAD ELASHE	SAMPLE ID: Depth(ft) Order ID 68A 5 Depth	PROJECT KOCKetdyne	
•	mas fift	1e D-Chloroform											7/18/00	INSTALLED	dyne	
RECEIVED BX	RECEIVED BY	m D6-DMK								1205-1216	1148-1159	1030-1044	8E01-EHF0	SAMPLED BULB	CLIENT_)
BX.	N NS	D-DCM								M	44	A18	り回	8.П.В		
		7								150	150	150	150	FLOW ml/min	C)galess	~
,	X									(1	11	14	45	TIME		
DATE/TIME	DATE/TIME									(00m)	100m)	1	100mg	Purge Vol		
E										/	7	>	/	Isobutane Leak Check	DATE	
	8/2/00 1300									4.7	4.7	4.15	4.15	tane MISO	18/200	1 C T C T C T C T C T C T C T C T C T C
										31	82	72	72	# 5 CD		

M4-153

RELINQUISHED BY	RELINQUISHED BY Allowan A.	RROGATES D6-BenzeneD8-Toluene	1941 - 1966 - 19							CLSV37001 3' RV816 \$ 7/08/00		SAMPLE ID-Depth(ft) INS	PROJECT Rocketdyne
	A A	D-Chloroform_								_		NSTALLED	6
RECEIVED BY	RECEIVED BY	D6-DMK								1430-1441	1343-1354	SAMPLED	CLIENT_
	In	D-DCM_								ひと	XI	BULB	1 Ogden
										150	150	FLOX)	es.
 										=	7.	TIME	
DATE/TIME	DATE/TIME									100ml	8	Purge Vol	
E	E 8/2/00									\	7	TS before MISC	DATE 3/
	1525									7.7	4.7	MISO TO	\$/2/00
										1387 82	95	제 S1M	

		1 134118		~				11.	بالعال وال	3 300	ונסונ	,		, , , ,	
RELINQUISHED BY	RELINQUISHED BY:	SURROGATES: D6-Benzene D8-Toluene					RM OF	24906	, N	RVap4		Ryapu	39.50	SAMPLE ID-Depth(ft)	PROJECT TOTAL
	Barbare E	D-Chloroform					7		The state of the s		3 3.6/10	7	12/01/00	INSTALLED	大のオープンツー
RECEIVED BY	They RECEIVED BY Come, M.	n D6-DMK						933 - 949	1893-951	L'	L	8:32- 846	8:32 - 847	SAMPLED	CLLE
ВУ	BX	D-DCM					Z	41	-	X22	8X	II.	522	BUILB	CLIENT OGDEN
	W.W.				and the second s	The state of the s					Carry Company (Manager		8	FI_OW milmin	
							8	6	8	7	2	+	Ū	nin AME	イスカワー
DATE/TIME	BATE/TIME (12/13/60						2			and the same of th			100ml	Purge P	U
E	E1413						AM	7	_	1	5	1	1	Tabes 	DATE 12
	100 1000						<			Value and State of St			AREA I ACC 102	WISC.	13/80
	12					′	7.a	107	102	102	102	107	102	115	

PROJECT ROCKET DY NE CLIENT OSDEN/AMEC

DATE 12/13/00

R	surrogates: D6-Benzene.									LF5V18501	LF8V145Ø3	Z&54145&27	H5VIH501	SAMP	
ELINQU	-Benzene				MATERIA DE					a		O,	ũ	TE ID-D	
TSHED BY:	D8-Toluene_				issa.					116 AZ	15/ RV910	RV 909	2V 908	SAMPLE ID-Depth(ft)	
lare	D-Chloroform									1	10	P	8 11/30/00	INSTALLED	
	m D6-DMK				٠					1407-1419	4041-1404	1247 - 1403	1949 - 1401	SAMPLED	
	D-DCM							,		XZZ	干	S12	X₹	BULB ID	
									4				150	FLOW ml/min	
In Red										12	S	4	12	TIME min	
										·			(00)	Purge Vol	
ME 12/13										7	(Ç	<	150 PlackyL VANCOBER	
DATE/TIME 12/13/00 -25		,								4.12	4.12	4.12	412	SWMN#	7999
7										55	Es.	69	69	101.5#	

RELINQUISHED BY

RECEIVED BY

DATE/TIME

RELINOUISHED BY	RELINQUISHED BY:	surrogates: D6-Benzene		, A.	.:		*		CLEVATED NO	06 has/bh/541		cusyulodii 5"	ousy 49/501 51	CLSV48/502 10	CLSV49/503 15	SAMPLE ID-Depth(ft)	PROJECT_	
HED BY		D8-Toluene_		:				•	RV0071	27 986	1200 VA	RV 904 4	· · · · ·	RVgor	- 6	pth(ft)	,	
	invare?	D-Chloroform							7	6		+	3	dr.	12/01/00	INSTALLED	ROCKETDYNE	
RECEIVED BY	Chy RECEIVED BY	rmD6-DMK_							933 - 951	933- 949	133- 951	8:32-844	832-844	8:32-846	8:32 - 847	SAMPLED	CLIENT_	
ВУ	BY	D-DCM.							M	47	51 X	XZZ	X8	#	522	BULB ID	NT OGDEN	
	LM/								\leftarrow						8	FLOW ml/min	en /A	_
			THE REAL PROPERTY AND ADDRESS OF THE PARTY AND						8	16	8	121	12	14	15	TIME min	TAC	
DATE/TIME	ĐA TE/TIN								<u>e</u>						100ml	Purge /		
Æ ,	da te/time <u>12/13/60</u>	_							N/A	7	(1	5	5	7	Brakether Property	DATE 12	
	3/00 /000								<			<u>_</u>			AREA I ACC	MISC SWMu#	1/13/00	
	2								2.Q]	102	107	102	102	102	102	415		

PROJECT ROCKETDY NE	JAYVE I	CLIE	CLIENT OSDEN		AMEC		DATE/2/	113/00	
SAMPLE ID-Depth(ft)	INSTALLED	SAMPLED	BULB ID	FLOW ml/min	TIME	Purge Vol	150PLOFYL VANKSHEPL	MISC Swink	# 50V
-	8 11/30/00	1949 - 1401	λ¢	150	7	8	<	412	69
LCSVINSOZ (0' /RV 909	9	1347 - 1463	S12		Ŧ		C	4.12	E.
2	10	1241-1404	Ŧ		ত্য		<	4.12	65
LFSV18501 51 RV 911	((1407-141A	XZZ		7	<u>-</u>	7	4.12	55
				,					
			,						
4									
SURROGATES: D6-Benzene D8-Toluene_	ne D-Chloroform	rm D6-DMK	D-DCM						
			D-DCM						

RELINQUISHED BY: Bulana & Fain

RECEIVED BY

DAJE/TIME 12/13/00

1200

DATE/TIME_

RECEIVED BY/

RELINQUISHED BY

																1	7
RELINQ	RELINQ	SURROGATES: D6-Benzene			į,		:		CLSVANTOI NA	O.C. 1405/ 14/5/10	T	5 100/m/m	C15/45/501 5'	CLSV4/502 10	CLSV49/503/15	SAMPLE ID-Depth(ft)	PRO.
RELINQUISHED BY	RELINQUISHED BY:	ne D8-Toluene						•	X RYBOTA	21906	EV 905	RV 904	1 RV 903	21902	RN 901	ID-Depth(ft)	PROJECT NOVE
	arbare Ci	D-Chloroform	· The						7	6		+	3	d)	12/01/00	INSTALLED	ankt.
RECEIVED BY	Thu RECEIVED BY	mD6-DMK							933 - 951	933 - 949	133- 951	P+18-28:18	832-844	8:32-846	448-28.8	SAMPLED	CLIENT
ВУ	BY	D-DCM							Z	47	N X	XZZ	X8	#	522	вилв	~
	m M.K							_	<						150	FLOW: ml/min	GDEN/H
	X								Q	6	8	7	12	+	15	TIME	チェゆり
_DATE/TIME	-DATE/II								2			-			100ml	Purge Vol	
ME	date/time <u>(2//3/60</u>								N/A	7	(<	7	1	Boston L	DATE 12
			4						<u></u>			←			AREA I ACC 102	MISC SWMu#	113/80
	1600								1201	102	102	102	107	102	102	45111	

M4-199

E/E .9 PIE ON HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY M4-199

ME

		S		2000	t see				10	IΩ	ල	[CS	د دس		 (0	KG.		19E:02
		URROGAIES: D6-Benzene							15156kg	Ol 44g basis	0.000 15	San C	25456kg [5]	15vstran 7'	C151516 7	1515Hall 3	SAMPLE III	
REL	REL	s: D6-B							5	3	8.	8	54	3			SAMPLE መ-Đepth(ħ)	
INQUI	INQUI	enzene_							ų, į	ō	Ū,	S)			a managament	20th rest Art Shake		PROJE
RELINQUISHED BY	SHED I	I							7	Ϋ́O	?	E2.4	2	2	12	X	юрф(f) 5/4 го	CIF
AA.	TAN THE	D8-Toluene							12 919 8	RV981	EV917	RYPILS	2V1154	RV 91+7	2V 9132	7V921	3	PROJECT POCKETOYNE
	erda,	ř											12-	1			INS	4
	Z	D-CH											12/04/	12/ py /00	12/04/00	12/04/00	INSTALLED	ME
	6.0	D-Chloroform											(S)				B	
	al	Ĭ							938	124-	124	- Mb	909-	88	32	- 358	SAR	
RECEIVED BY	RELINQUISHED BY: Janua C HOURECEIVED BY	D6-DMK							746	938	924 - 939	936	919	908	908	407	SAMPLED	
BY		D-DCM				e digitale post ficial in			X6	PIX	NZ	46	80	<u>~</u>	XX	F1N	RUB D	CLIENT AMEC
	mes M.								~				e.	2		36	FLOW mbmin	23
	2									2	B	7	0	7	12		TIME	
DATE/TIME	DATE/TIME_														the state of the s	masi	Proge Vol	
ME ,	ME (2/14/00						۵		<	7	ζ .	(<	7		7	Part Spare	DATE 12/14/00
	Mon.		The state of the s					5.4	-							th	# WHINE	14/00
	8							100	25					_	_			
									<u>~</u>	\sim	<u> </u>	<u>~</u>	0		C3		5	

PROJECT KOLETDYNE CLIENT AMEC DATE 12/14/00

1883 1814 1814 1814 1816 1816 1816 1816 1816			\$58justo	CLSV HR SQ2	CPSV 51 500	CL5V 39 SUS	18 SE CO.	DE ESPETO	01.5V 53 5¢1	C15V 55 541	CL5954 56	CL5457 541	الأفراع المحتال	GI ZBUK
			<u>\$6</u>			×			600000000 01000000000000000000000000000		2000			APPLE
			لكا د	×3	īŲ	ō.,	6	4.5	<u>a</u>	ΔĪ.	=. **	φ. 	υ. Το	III-Dept
			RV930 M	PVE 28 18 11/30	RYGIG NIZ	R1927	RV926	2,425	RV924	Rv9zs	21922	EV 921	Evano	の最
			33	1811/30	O/ETU	1 4	of morenist	73	13	7	3	1/0	9 12/04/00	INSTA
				00	01 00	11	13/100					The second second		INSTALLED
		-	1256 -	1256	241	123)	4221	1212	206 -	\$	1152-	1152	- 4311	SAM
			1905	1305	1251	12 16	1238	1229	ă	1209	12 OK	1203	8611	SAMPLED
			W) I	AS	Alb	225	ŁX	XII	I	9	22,00	表	83	BULB D
			<		·		(150	8			951	FLOW ml/min
			ō	Ū	0	2			ō	٦	7			Taxig min
			2				-						/oo	Purge Vol
			7	<	7	7	7	\	\	1	1	\	\	Int Cink
ACCOUNT OF THE PARTY OF THE PAR			•	Total State of the		<							7. T. J.	Suga s
			100	100	10	58	1-18	104	/o3	106	83	83	9/	

RELINQUISHED BY: Dulau RELINQUISHED BY. RECEIVED BY RECEIVED BY fames M. Reed DATESTIME 12/14/00 DATE/TIME

SURROGATES: D6-Benzene

D8-Toluene

__ D-Chloroform_

D6-DMK

D-DCM

MY-700

PROJECT POCKETOYNE

_ CLIENT AMEC

DATE 12/14/50

			3		7	D-DCM.	rm D6-DMK	e D-Chloroform.	D8-Toluene	5-Benzene	SURROGATES: D6-Benzene
-											
											,
1032		<		=	<	メで	938 - 949	4	RV 9198	ņ	CT-SNEWERD
107		7	~	7		b/X	924 - 938	<	RV9181	0	C15V59 500
F.0/		7		Ñ		N 7	924 - 939		PV9171	<u>N</u>	CLENS9/603
107		(77		の大	924 - 936		ENGILLS	n	CLENER/SOI 5
106		<		10	_	ω	909-919	12/04/00	2V9154		01-51288 1.51
104		~		7	2	<u></u>	856- 908	(2) pd (00	ST 9173	Ž	1.5 rapolitis/5.7.
10H		ζ		12		XV8	836- 908	12/04/00	EV 9132	1	CLENGTHAT
104		7	100 ml	11	150	N17	856 - 907	12/04/00	RV 9121	ŝ	CUSV57/501
i des	MISC SWMK*	1548029C ACOHOL Leak Check	Purge Vol	TIME min	FLOW ml/min	BULB ID	SAMPLED	INSTALLED	SAMPLE ID-Depth(ft) DEPAI EA (D	LE ID-I	SAMP THEC: ID

RELINQUISHED BY: Bulana

HUNGECEIVED BY Loncon M.

DATE/TIME (7/14/00) 1000

DATE/TIME

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PROJECT ROLETDYNE CLIENT AMEC

SAMPLE ID-Depth(ft)	D-Dep	th(ft)	INSTALLED	SAMPLED	BULB	FLOW	TIME	Purge		MISC	
AMEC ITS DI	ALMO O	EPA 10		3	ID	ml/min	min	Vol	Leak Check	SWMU #	
1501		R1920	9 12/04/00	1127- 1138	22	150		/o o	1	4.7	9/
<u>e</u>	(N	EN921	100	1152 - 1203	H3		[]				83
CUSV54 562	=,	E1922		1152-1206	76		14			/	83
145 59 ASTO	ΩĪ	RV923	W 1	1155- 1209	813	160	14		(106
012N 23 241	iù	RV924	13	9121 - 9021	14	150	0		1		103
CLSN82 501	4.5	RV925	ri l	ì	72)				7		104
C15438561	é	RV926	RV926 REINSTALL 1961/00	1227- 1238	±X	-			7	-	H8
CUSN 39 503	6	R1927	(b ii ii	1231 - 1251	225		15	-	1		58
	iv	RV928 112	12/01/00	1241 - 1251	A16	2			7		110
CDS 84 ASTO	Ø	RV929	1811/30/00	1256 - 1309	AS		Ü		7		100
cr2048361	W	Z 1930	M J	1256 - 1306	WI	\	10	1	7		100
											-
SURROGATES: D6-Benzene	zene	D8-Toluene	D-Chloroform	m D6-DMK	_ D-DCM						

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Med DATE/TIME 12/14/00

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MYTE

PROJECT LOCKETOYNE	ETDYNE	CLIE	CLIENT AMEC	le C			DATE 17/14/50	14/00	
SAMPLE ID-Depth(ft)	INSTALLED	SAMPLED	BULB	FLOW ml/min	TIME min	Purge Vol	150 PUO 94 ALCO HOL Leak Check	MISC SWHR#	incs.
57/50 3 5	12/04/00	406 - 258	7/N	150	//	masi	7		104
7	12/04	(XV8		12		ζ.		104
	_		<u> </u>	2	1		<u></u>		401
215185Ker 1.5' RV9154	12/04/00	909-919	EB	J	0		~		106
		924 - 936	46		7		~		F0/
CLYS9/603 15 RV9174		924 - 939	NZ		B		7		F-01
0)	924 - 938	b/X		14	2	7		107
CISVERFE B' KYPIPS	~	938 - 949	メe		=		<		1030
									-
To Do Domestic Do Tolling									

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	PROJECT_	1	ROCKETDYNE	CLIENT_	IT AMEC	6			DATE 12/14/00	4/00	
SAMPL	SAMPLE ID-Depth(ft)	pth(ft) <i>ES</i> (15	INSTALLED	SAMPLED	BULB ID	FLOW ml/min	TIME	Purge Vol	Leak.Check	MISC Swmu #	
215VG1 5¢1	N	EVALO	9 12/04/00	1127 - 1138	22	150	[]	/g0	<	4.7	91
CL5V5\$ 501	Ŋ	EV9Z	ام	1152 - 1203	H3				<u></u>		83
cusy sy spr	-,	EVAZZ	11	1152-1206	R6		14		(83
751 82 241	ũ	RV923	p +	1155- 1209	813	100	74		(106
120 E3 SXI	iž i	RV924	13	1206-1216	4	150	Ö		1		801
CLSV52 SØ1	4.5	RV925	74	1212- 1223	X22				7		104
125 SEVET	ć	RV926	DEINSTAL 12/01/00	1227- 1238	7 X	4	_	\leftarrow	7		H8
545 BC 1873	<u>6</u> _	R1927	11 11	1231 - 1246	522		2	<u> </u>	1	<	58
CL5V 51 50 1	isi	RV928	U 12/01/00	1241 - 1251	Alb	2	Ō		7		0)
CTRN A8 205	Ø	RVRVS	1811/30/00	1256 - 1309	AS		Ū		7		100
000 ANS 201	W	EV930	19	1256 - 1306	W I	J	10	1	7		00/
	ľ										
-											
URROGATES: D6-Benzene_	Benzene	D8-Toluene_	e D-Chloroform_	m D6-DMK	D-DCM_						

RELINQUISHED BY

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KECEIVED BY_

James M. ReeL DATE/TIME 12/14/00

DATE/TIME

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		iurrogates: D6-Benzene					SUSSUSSUSSUSSUSSUSSUSSUSSUSSUSSUSSUSSUS	CLEVE A STOP	0,8069/683 15	ाशकाहिता डि	1511/6/ ₀₁ 11/6	12545Hops 7	CHAROLET T	01-6467/M 3	AMEC CO	
RELINQUISHED BY	RELINQUISHED BY: J						g 3′ Evg19 1	» 10 RV981		6 EV9165	1000000	i new	WW.		SAMRLE ID-Depth(t) - D- 12641 - БА-(12)	PROJECT LOCKETOYNE
	Bulana	D8-То!нене		* 200			G 3	(8)		(65)	(2) (2)	W 1 12/	37			CLELDY
		D-Chloroform					4 —	<u> </u>			12/04/00	12) pa (00	04/00	12/04/00	INSTALLED	NE
RECEIVED BY	HOWMECEIVED BY	TR D6-DMK					938 - 949	924-938	(924 - 936	,	856- 908	836- 908	4.06 - 258	SAMPLED	CLIF
BX ,		D-DCM					XC	XIG	NZ	9 イ で	<i>w</i>	<u></u>	X.8	4111	BUB D	CLIENT /MEC
	men Me						€-				-	2		33	MOTA	EC
							=	14	15	12	10	12	12	11	uju TIVIT	
DATE/TIME	DATE/TIME.						<u>(</u>	-			¢-			icont	Timge Vol	
E	B (2/14)						<	7	Z,	ζ	<	7	<	7	Application of the state of the	DATE 17/14
No. of the contract of the con	ooa (10)											A STATE OF THE STA			# midme Sim	14/00
	9		_				103a	/c 7	1/07	167	106	104	he	104	374	

NO 322

M454:4

DEC.18,2000 4

RE	SURROGATES: D6-Benzene					cz sylg søj	CLEVER SOZ	C15451.50	ज्याङ (क्षेत्र १८०१)	CL9/35.50/	23/82.50	1945 55 rs	Tay se sen	CUSYST SAL	01546450	015VGI 5#1	SAMPI Mee up	
RELINQUISHED BY:						3 K	80 70	[Z]	6 RV	6 X	4.5 R	Ž	J.		5	5 Ry	SAMPL&ID-Depth(ft) ローローローファイル・ドル・ドン	PROJECT 1
v. Barbara E.	D8-Тоlнене		9000			PLVGBO R	KN929 1811/3	FLU BEDIN	R1927 10 11	RV926 Einstan	ENGRE I	RV924 13	RV923 P	P1922 11	20921 10	RV920 9 12	∂	POLETDYNE
C. Sa	D-Chlorofonn_						30/00 1	01/00	=	13/100			\		=	12/04/00 11	UNSTALLED.	XNÉ
RECEIVED BY	D6-DMK_					1256 - 1306	1256 - 1309	1241 - 1251	1231 - 1246	1227- 1238	1212 - 1223	1206-1216	1165- 1209	1152-1206	1152 - 1203	1127 - 1138	SAMPLED	CLIB)
AV AB	_ D-DCM_					W.	A 65	Alb	522	+X	XZZ	Ŧ.	813	Kr.	H3	88	BULB D	CLIBNT AMEC
ones M.						←		2		<		150	60			150	ELOW ml/min	6
W. Reck I						0	Ū	0	2		<u> </u>	0	<i>1</i> 4	14	7	//	HWID July	
DATE/TIME					,	2_			-	←						/oc	Purge Vol	
DATE/TIME /2/14/00						7	7	7	7	7	<	1	7	7	_	7	Jesk Check	DATE 12/14/00
00 115						<			<					•		4.7	MISC Summ	1/00
6/E		322	•ON		,	100	100	0	58	H8	104	103	106	83	83 W	9/ :: dd: :: td:	2 000	DEC.18.20

			1 "								ال، با	د دن	م دد	JΙJ		77	ושבישה /
3 7	2 5	SURROGATES: D6-Benzene					16 SPLACE	15' BAYANGE	USV15 Sea	TSVE/SE	CCSV16/sez	Spingt	120 mg/sm/20	16116/Su 15	115116 Spr 110	SAMPLE ID-D	
EL INQU	et indri	5-Benzene					þί	ù	S.	W	80		2	σ,	IO		PROJ
REL INQUISHED BY	RELINQUISHED BY: Eudma	D8-Toluene					RV946	R1945 \$1411/00 CEINSON	FYOHY	からまる	EU 042	PV941	RVANO	RV 982	RV 936	SAMPLE ID-Depuh(ft)	PROJECT COCKET DYNE
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	Some?						6	11411/00 PEIN	7	13	7		8	8	\$ 11/30/00	INSTALLED.	TDYNE
0	E.	D-Chloroform						<u> </u>		lle	Ke	05	10.78	1037	0 8.32 20.00	193	
RECEIVED BY	RECEIVED BY	D6-DMK					132-1147	1132 - 1147	113 - 1125	102-1117	102-115	657- 1109		10:54	13.01 - 16	SAMPLED	CLJ
D BY		р-рсм					Ϋ́	522	A16	J/K	Xia	AS	28	W	N2	BULB	CLIENT AMEZ
	My My					ø	00/	140/h 09/	· <				, 1844 OA 60 MIC OA		150	FLOW ml/min	2
	S. S.						Ŋ	5	7	7	(3	7	انه	ল	ī	TIME	
DATE/TIME	DATE/IIN						<	-	-,-				, Acc		100 ml	Purge Vol	
ME.	DATE/TIME /2//5/00					e e	V	4	<	<		7	L	5	<u> </u>	Lead State	DATE 12/15/00
							 <u> </u>								4.12	#WHW# OSIM	15/00
A STATE OF THE STA	2026						56	36	S)	53	53	.52	52	52	52	<u>8</u>	•

		URROGATES: D6-Benzene						165/01/501	LPSVØ6/SØ3	LF5V 15/501	128112/2012	CF5V16/602	15-5N16/501	15-Miles	1550 16/50B	LF5116/502	SAMI And to	
ELINOU	RELINQU	6-Benzene				 		νí	ù	(N)	-30			20	<u>v</u>	0	LE ID-I	PROJE
RELINOUISHED BY	RELINQUISHED BY: Jandana C.	D8-Toluene			•		-	RV946	RV 945	RVayy	EV ato	EVAYZ	RN941	RV 940	RV asa	RVASS	SAMPLE ID-Depth(ft)	PROJECT 4, OCAC I DYNE
	bara Eta	e D-Chloroform.	ý					6	RV 945 \$1711/00 EINSON	て	13	12	4	0		\$ 11/30/00	INSTALLED	NYNE
RECEIVED BY	RECEIVED BY	rn D6-DMK	1	j.				4411-4811	1132 - 1147	1113 - 1125	1111-2011	1102-1115	1057-1109	10:56	10:54	25.01 - 16.21	SAMPLED	CLIE
BY		D-DCM						۲X ۲X	522	Alle	3/X	XIG	AS	28)W	NZ	BULB ID	CLIENT TTVE
	me M							100	8	(-				a see ander		150	FLOW ml/min	
	M. Real							Ŋ	5	12	5)	[3]	12	4	Ŋ	$i\bar{c}$	TIME min	
DATE/TIME	DATE/II							<								100ml	Purge Vol	
Æ	DATE/TIME /2//5/00							<	(<	\ \	\	<	<	7	(BORRAYL ALCOHOL Leak Check	DATE 16
				*acco			ne nome that we are grown	_						, , , , , , , , , , , , , , , , , , ,		4.12	MISC Swinku≠	115/00
	1200				•	1		56	56	(U)	22	53	52	52	27	h 2	# S777	

HydroGeoSpectrum SOIL V. OR CHAIN OF CUSi

SURROGATES: D6-Benzene ENANGE OF AMER D PERMIT SAMPLE ID-Depth(R) RELINQUISHED BY: Carbara E. Huy PROJECT TOXATON Ŋ 5 2749/ SMMET 2000 PV944 D8-Toluene ð INSTALLED D-Chloroform_ 753 7041 - 256 1320-1332 SAMPLED RECEIVED BY D6-DMK 13.05 CLIENT AMEC BULB ス で ã Ŧ D-DCM MOTH B 7 P Pung DATE/I 000

RELINQUISHED BY

RECEIVED BY

DATE/1

RI	RI	URROGATES: D6-Benzene_			ì					ids einsa	125723 201	1822h157	SAMPI AMEZ ID	
ELINQU	ELINQU	-Benzene								α	ΩĬ	e T	LE ID-Do	PROJI
RELINQUISHED BY	RELINQUISHED BY:	D8-Toluene								EV944	Ryayan	RV 94311	SAMPLE ID-Depth(ft)	PROJECT KOKE
	Enbru E. Lary	. D-Chloroform								7		2000 TANHUS	INSTALLED	OCKETTYNE
RECEIVED BY	RECEIVED BY.	rmD6-DMK								1355 - 1407	1320 -1332	1253 - 13:05	SAMPLED	CLIE
BY	BY	D-DCM								Ã	去	なって	BULB ID	CLIENT AMEC
	2	M								-		150.	FLOW ml/min	0
										12	17	(7	TIME	
DATE/TIME	DATE/TI								•			(Bome	Purge Vol	
ME	DATE/TIME (2/15)									7	7	(Ecak Check	DATE 12
	100 205/-									2,5	4.44.5	147	MISC Swhu ≯	15/00
										/8a	65	93	MES#	

	PROJEC	Tocke	PROJECT ROCKETDYNE	CLIENT		AMER (C	Nacho		DATE 12	115/00	
SAMPLE ID-Depth(ft)	E ID-De	pth(ft)	INSTALLED	SAMPLED	BULB	FLOW ml/min	TIME	Purge Vol	Leak Check	MISC	Ü15-
LS148 FØ1	0	RV93	1	734- 750	×8	150	16	mas	7	Accen	100
E9584151	6		20/00/11	,	71V		15		(100
LAVY8005	Ū	500	3/11/30/00	7747 - 745	46		15		(100
HOS SHAS	8	PYG54	411/30/60	734-75	XIX	-	16		1		100
198 45 NSJ	J 1		5 12/01/00	218 - 008	ES.		12		7		101
15V56502	ō	RV936	6	418 - 008	Xe		14	and the second seco	<		101
USY 56 SA3	<u>e</u>	2V937	42	800 - 815	118		15		<		101
	- :										
											14 D-10
											·
		W			VVIII T						•
IRROGATES: D6-Benzene	}enzene	D8-Toluene	e D-Chloroform.	rm D6-DMK	D-DCM						
		A)					5		,		
RE	ISINQUIS	RELINQUISHED BY:	when C	TAM RECEIVED BY		James M.	in	DATE/TI	LDATE/TIME 13/15/100	20 050 N	1 1

RELINQUISHED BY

_ RECEIVED BY_

DATE/TIME_

R	R	sURROGATES: D6-Benzene			li	~	resvolution	LF5V \$6 /503	LFSV15/SOI	100 SINJA	CF5V15/502	125N16/501	Entlicken	(S) 16/502	LFSV16/Spz	SAMP	
ELINQU	ELINQU	5-Benzene					νį	ú	Z.	M.	± Ø	۵,	20	¥	lo	DETH	PRОЛ
RELINQUISHED BY	RELINQUISHED BY: Javana	D8-Toluene					RV946	RV 945	RV944	EV CHO	240AZ	PN 941	RV 940	RV 939	RVAS	SAMPLE ID-Depth(ft)	PROJECT ROCKET DYNE
	Some Cot	e D-Chloroform					6	RV 945 161411/00 EEINSTALL	マ	77	12		0	-5	8 11/30/00	INSTALLED	ENKO
RECEIVED BY	RECEIVED BY	rmD6-DMK	N.				7411-1211	1132 -	1113 - 1125	1117-1117	1102-1115	1057-1109	10:56	10:54	10:37 - 10:52	SAMPLED	CLIE
BY		D-DCM_	***				۲X ۲	522	Alle	У.	XIQ	AS	228)W	NZ	BULB	CLIENT AMEZ
	me the	(100	8	(-			A STATE OF THE STA	gloss a routines		150	FLOW ml/min	
	Pens						Ŋ	2	12	$\widehat{\mathcal{U}}$	Ū	12	17	গ	$\overline{\omega}$	TIME min	
_DATE/TIME	DATE/II						<						-4		100ml	Purge Vol	
IME	DATE/TIME <u>/2//5</u>						<	(<	<	\	ζ	<	7	<	RECONOL Leak Check	DATE 12
	15/00 12			**resi		er could different research	Carrie Land						,		4.12	MISC Swku#	115/00
	200						25	56	m W	N W	53	52	52	52	45	# SJN	

CENTRUM

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY MY- 201

RE	RE	SURROGATES: D6-Benzene				٢					Evsvissel	172 69/57	CTSV42 501	SAMPLE ID-Depth(It)	
LINOUI	LINQUI	Benzene_		:	 . :			·			 ù	ù	6	E ID-D DEPTH	PROJECT X
/ RELINOUISHED BY	RELINQUISHED BY:	D8-Toluene	*				*				EV944/19	249481	RV943/1	epth(ft)	
	Barbara E. Lan	D-Chloroform									9		SUHHER 2000	INSTALLED	OKELDANE
O RECEIVED BY	RECEIVED BY	rm D6-DMK									1355 - 1407	1320 -1332	13:05	SAMPLED	CLIE
BY(BY	D-DCM									XX	Ŧ	R6	BULB ID	CLIENT AMEC
	1										<		150	FLOW ml/min	100
											7	7	17	TIME	
DATE/TIME	DATE/TI												(Boml	Purge Vol	
ME -	DATE/TIME (2/15)										7	<	7	Accorder Leak Check	DATE 12
	100 205										5.7	7.44.5	4.7	MISC Swhu ≠	15/00
	1										18a	65	93	MES#	

			15 2R949	15550 G KR 918	V412 54)	SAMPI		Tay
			5	0	6	SAMPLE ID Depth(n	PROJECT	
			R949	R 948	L16 2	1.B.ID:Dopth(Ո) <i>թե</i> րդ- <i>೯Ս</i> , - շ	ROCKE	
		*			6 RR947 SUMMER 2000	NSTALLED	PROJECT ROCKETDYNE	Var o Ocop
			13	(6)	12	i, 11 i		pecuu
			1355-1407 172	130 -1332	05/ 618 5061-6531	SAMPLED BILD	CLIE	TIGO CHISE II MITO CEOSPECITUIII SOIL VATOR CITAIN O
			YZZ	43	813	BULB FLOW	CLIENT AMEC OG DEN	VO TVA
					150	FI-OW ml/min	ic la	CHAL
			12	12	12	T IMIR	DEN	
					100	Purge Vol		T CUSTODI
			/	•	7	Purge	DATE 12/15/80	JUI
R KU J	,				4.7	MISC SylMuse	15/00	
01.00 01.00 01.00			1ga	105	93	N GIW		a n

RELINQUISHED BY DE-Toluene D-Chlo						E4511350 5' 2R949	15 5 KR 448	EN628 9 1854MST	s.a.u.i.e. ընտի(n) թեու ընտի(n)
and June								SUMMER 2000	INSTALLED
RECEIVED BY RECEIVED BY						1355-1407	1320 -1332	1253-1305	SAMPLAD
BY D.DCM						IIX	13	813	BITLB
								150	FI.OW ml/min
						12	12	12	TIMIK min
DATE/TIME								100	Purge Vol
DATE/TIME 12/15/00							۲	7	Jaak Cheek
45		PAX F	E H62-	89h-8				4.4	MISC.
	S depart	From PARES	F787		11-120 01 o1 10001.00	1ga	105	63	NLS K

HydroGeoSpectrum Inc., POB 49259, LA. CA 90049 Phone(310)458-0973

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SSE ON

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY M4-2の

REL	:URROGATES: D6-Benzene							CLSV 5/ Sd3	CL6V56502	CLSV 50 501	CLEVIUS SOL	CIPARPAR	C15V48563	CLS148F81	SAMPLE ID-Depth(ft) AMEC ID DEPTH EPA	F
RELINQUISHED BY:	enzene							6	ō	5	~		e e	0	ID-Dept	PROJECT_
ED BY:	_ D8-Toluene				Ng.			RV937	RV936	Ryass	1		RV932	RV93	h(ft) 1784 (75	
stare E	D-Chloroform						-	43	6	5 12/01/00	411/30/60	3/11/30/00	211/30/00	1	INSTALLED	X DCKETDYNE
RECEIVED BY	rm D6-DMK							800 - 815	418 1 008	218 - 008	734-755	17 - YEE	734-749	09 HEL	SAMPLED	CLIENT
	D-DCM			•				811	Xe	RA	X &	76	717	X8	BULB ID	NT AMES
ames he								(-						150	FLOW ml/min	
Rus								ñ	14	7	16	15	15	16	TIME min	06DEN
_DATE/TIME								<			2 Auguston			pagal	Purge Vol	
DATE/TIME_ \$12\/5\/5\								<	<	7	<	((<	Tso PROPYL ALCOHOL Leak Check	DATE 12
60 920 to														Accit	MISC SWHK #	115/00
								101	101	101	100	100	100	100	1115+	

HydroGeoSpectrum SOIL V OR CHAIN OF CUSTODY M4-2

SURROGATES: D6-Benzene. ラダゼ/G 1884/4E PS OF IS TESTATION TO IT IN USV 72/59/3 SAMPLE ID-Depth(ft) RELINQUISHED BY CANADA ပ႑ (G) 6 10 PROJECT ROCKETDYNE RIASS のたび上 1894 TO のかり 名を R1966 **RV950** 495 Rv95 D8-Toluene (12/17/00 **INSTALLED** D-Chloroform_ 9116 454-116 Ž, 954 132 -SAMPLED RECEIVED BY D6-DMK 928 4 37.6 2 700 42 1007 9001 CLIENT AMEO **ETUB** ES <u>z</u> t) 222 A 5 Alb D-DCM maylm MOTA <u>Q</u>/ $\overline{\mathcal{O}}$ w 2 $ec{w}$ 7 w 7 DATESTIME 12/18/00 Purge Vol 8 DATE 12/18/00 Š T 5 13年 OSEM 62a 62a 626 40/ 40 8 8 106

RELINQUISHED BY

RECEIVED BY

DATESTME

Ü

PROJECT KOCKET DYNE

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

CLIENT AMEC

W4-202

DATE 12/18/00

SURROGATES: D6-Benzene 505 +1/37 145/12/201 180 8 KON Trova va 元>21 S&1 180 SAY 140 A/V 4007 NOT SAMPLE ID-Depth(ft) ō 20.07 18 \overline{u} 101 1×2 V967 M αž ũ RV 965 21 962 10 RVale M KN 967 7 896NX Solo 12 RV 961 1711/30/00 EPA ID D8-Toluene_ 711/30/00 シ 2 INSTALLED D-Chloroform_ ||33 -158 181 1133 1 1 212 158 SAMPLED ١ D6-DMK_ 130 1129 1210 1203 1145 1146 1212 1225 BULB 3 らエ 22 4× R 77 <u>+</u> \times D-DCM_ E ml/min FLOW 080 * No Har run TIME 0 D min ij $\bar{\omega}$ 7 0 7 7 Purge Vol 84 150 ROAYL HLCOHOL Leak Check added. Re-Surge ζ 7 7 7 のロエロサ MISC 6 12/19/00 4 2 \mathcal{I} N υį 12 4

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DATE/TIME_17/18/00

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DATE/TIME

RELINQUISHED BY: Janhara C. Jany RECEIVED BY

RELINQUISHED BY

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY MY-207

CLIENT AMEC DATE 12/18/00

	SURROGATES: D6-Benzene						1827/08/12971	1LSV70/50Z	145/04/12-11	1LSV7/DØ)	1002/HVBJI	145472/593	1705/24NS-1	1128 72/501	SAMPLE ID-Depth(ft) ***********************************	
	Benzene_						:	0	2	(Ž	67	<u>N</u>	īĢ	6	ED-D	
	D8-Toluene		:	3000 1		100	RV957	R1956	RVaR	RV954	RV953	RN952	RVASI	RV950	epth(ft)	
	? D-Chloroform						-d		6	×		3	}	00/21/21	INSTALLED	
	rmD6-DMK						7001 - 43p	954-1007	9001 - 450	935- 947	742 -362	916- 931	916- 929	916 - 928	SAMPLED	
	D-DCM						ロコニ	83	76	XIX	A5	AlG	522	ナル	BULB	
										-				120	FLOW ml/min	
,							13	13	2	1	4	Ū	ū	12	TIME min	
						1					-			(Dome	Purge Vol	
							/	<	(7	<	<	<	<u></u>	Leak Check	
		-					\forall							4.3 4.4	MISC Swru#	
							62a	62a	62a	107	107	106	106	106	hus#	

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DATE/TIME 12/18/02

DATE/TIME

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RELINQUISHED BY

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

M4-202

REI	REI	SURROGATES: D6-Benzene						145V21 SØ1	165 % 297	-		149 41/251	1451/17541	H09411897	EDS 11/371	SAMPLE ID-Depth(ft)	
INOUI	INQUI	enzene_						ist	10,	αĩ	22	œ	M	18	<u>ī</u>	E ID-D	PROJE
RELINQUISHED BY	RELINQUISHED BY: Landara	D8-Toluene		;	·			896VX	*RV967	RNOLLE	R1965	RV 964	RV 963	RV 962		epth(ft) EPA 170	PROJECT ROCKETDYNE
	ware Eda	.e D-Chloroform						16	5,		711/30/00	2		6	911/30/00	INSTALLED	TDYNE
RECEIVED BY	RECEIVED BY,	rm D6-DMK						1215 - 1225	1158 - 1217	1158 - 1210	1151 - 1203	1133 - 1146	1133 - 1145	1114- 1130	1114 - 1129	SAMPLED	CLIEI
BY		D-DCM						=	4×	X 19	<i>W</i>	H6	Re	NZ	RS	BULB ID	CLIENT AMEC
	one th	1 * 2					-								(50	FLOW ml/min	C
		407						10	14	7	121	ū	7	6	D	TIME	
_DATE/TIME	DATE/TI	my o													100me	Purge Vol	
ME	DATE/TIME_17/18/00	added						\	7	7	/	7	7	7	7	HUCOHOL Leak Check	DATE_12/18/00
	8/00 1230	B. R.													4.12	MISC Swmu#	118/00
The state of the s	1 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Angliz						4	96	95	42	12	Ü	a	<u>a</u>	W.S.#	
L	1 8	1-(L			 <u> </u>											1

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY パケコのナ

	PROJE	PROJECT ROCKETDYNE	DYNE	CLIEN	CLIENT AMEC	C			DATE 12/18/00	2/18/00	
SAMPLE ID-Depth(ft)	E ID-D	epth(ft) EPA (D	INSTALLED	SAMPLED	BULB ID	FLOW ml/min	TIME	Purge Vol	Leak Check	MISC Swal #	his
8	6	RV950	12/17/00	916 - 928	ナル	120	12	(Dul	, \	4.3, 4.4	106
TYTENS-1	10		<i>t</i>	929 - 418	522		13		<	•	106
115472/593	N	RV952	?	160 -018	A16		15		<		100
11-8V71/801	eJ.	RV953	_<	935- 947	A5		2		<		107
1LSV7/20)	(Ž	KN254	Ŋ	935 - 947	XI8	٨	12		7		107
195/24.157	S	RIGER	6	9001 - 454	46		12		(62a
1LSV70/50Z	2	RV956		954 - 1007	68		3				62a
187/28/181	1	RVGST	pd.	7001 - 439	B11		13			\forall	620
								-			
		V									
	: 										
SURROGATES: D6-Benzene_	Benzene_	D8-Toluene_	D-Chloroform_	m D6-DMK	D-DCM						

RELINQUISHED BY

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RECEIVED BY

DATE/TIME 12/18/02

DATE/TIME

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY 14-20-

PROJECT REKETDYNE CLIENT AMEC DATE 12/18 /D

That Purge Late of the 1015	DATECTION	BY	RECEIVED BY		RELINQUISITED BY	RELINQI	
That Mage under Some Some 12 12 12 12 12 12 12 12 12 12 12 12 12	led	BV	RECEIVED BY	hu Cole	RELINQUISHED BY MANGE	RELINQI	
Thir Mige Misc Misc Misc Misc Misc Misc Misc Misc		D.DCM_	mD6-DMK_	D-Chloroform	ne D8-Toluene	surrogates: D6-Benzene	SURRI
12 On V MISC 13 V MISC 13 V V V V V V V V V							TRACT.
12 (Only) 13 Value Misc 13 Value Sura # 14 Value Valu						100 100	हें हैं है है कि लेख कि लेख कि
12 Misc Misc Misc Misc Misc Misc Misc Misc							100 100 100 100 100 100 100 100 100
12 (Only) 13 12 (Only) 13 12 (Only) 13 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							tichida stebbili
TRATE Purge Lut Chest Santa # 12 (80m.) \(\) 13 \(\) 12 \(\) 13 \(\) 14 \(\) 15							
Trum: Purge Luk Chesk Sana # 12 (80 Luk Chesk Sana # 12 12 12 13 14 15 16 16 16 16 16 16 16							1611 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TRATE Purge MISC 172 (On. 4) 172 (On. 4) 172 (On. 4) 173 (On. 4) 174 (On. 4) 175 (On. 4) 176 (On. 4) 177 (On. 4) 177 (On. 4) 178 (On. 4) 179 (On. 4) 170 (On. 4)							
TRATE Purge Lunches Sana # 12 (80m. L) 7 7 7 7 7 7 7 7 7							Shirt.
17 12 Misc	(2)	181	754- 1007	-	R VBGT	15 70 FB	\$
12 (On 1) MISC 13 (On 1) MISC 14 (On 1) MISC 15 (On 1) MISC 16 (On 1) MISC 17 (On 1) MISC 17 (On 1) MISC 18 (On 1) MISC 19 (On 1) MIS	20	 	4001 - 1007	7	i ir ir	STO SOL D	5
12 (Only 1) MISC	12	1/6	2001 - 1006		regign	Suzokal 5	٦
Trum: Purge Lunches Sama # 12 (On & V)	7	XIY	935- 947		La, !!!!!!	150 JOB 5	5
Trum: Purge Lunchesk Samux #	12	A5	416 -56			1 1 1 Kg. 6	2
Train Purge under Same MISC	S	A16	916- 931	-,3	RVASI	15,172,593, 15	Ē
TIME Purge Lunches Sana #	ũ	522	914 - 929	_	1	11.	5
TIME Purge MISC		41N	916 - 928	1 12/17/00		3472/501 6	<u>s</u>
	toret e	BULB	SAMPLED	NSTALLED	Depth(ft)	SAMPLE ID-Depth(h)	Š
							1

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-DEC.18.2000 4:47PM----

HydroGeoSpectrum SOIL V POR CHAIN OF CUSTODY

PROJECT KOLETONNE CLIBNT AMEC/DGDEN DATE 12/19/00

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163 +1256 +01 -291	10, 28,837, 20,88,20,	なるである。	CSVII/SØ2	1/501	2754B/58	G5/17/504	275412/101	013410/50	13412 (SO)	C15414/501				
2	ē,	2	6.5	3	3/	3	42	F.	3 3 3	ö				100
	19513	2	35 335 0000	Adda di basa sa	\sqrt{g}		2	2	2	8				
ā			民	F.	DV9-72 "Into	MATE STATE	RVad	CV ago Valor	RV 980 "lid"	186 NY				
	11/30/00	11/21 masm33	7	-	ufreto!	*		A Palas	(late	*	The state of the s			
	100	Mulpo	12/13/00											
	1005-	1026	1054	190)	102	1110	110	115	1128	1132				
	MOI	्र १५७	106	1105	 الگ	112	122	- 127	- to	- 1142				
B	78	N2	~	ナメ	<u>م</u> الم	7	1		946					
		7		7	a.		26	X18	o '	01				
ml/min	95													
B	ù	4	12				7	12	12	$\widehat{\sigma}$				
Vol	loome													
Leak Chind	•		7	7		r	5	•	•	_				_
			1		1	\								
22.	4.12		AREA I ADO											
150#	9%	57	N/A	N/A							,			
	7,44832					an and an								

RELINQUISHED BY: BANTAL RELINQUISHED BY AMECEIVED BY RECEIVED BY Come Milles DATE/TIME 12/19/00 DATE/TIME

HydroGeoSpectrum SOIL V POR CHAIN OF CUSTODY

SURROGATES: D6-Benzene D8-Toluene D-Chloroform RELINQUISHED BY: Santala & Jam	•							=	F	565492/564 22' RV97	8	PESUEL SUZ 10. RV969	SAMPLE ID-Depity(ft)	PROJECT ROCKETOYNE
antara E. La								3()	2 3	9		14160 RINAM 705	MSTALLED	TOYNE
RECEIVED BY								785 - 80B	755 - 808	76- 743		705 - 718	SAMPLED	CLEN
D-DCM				d				2	<u> </u>	X6	15	X8 150	BULB FLOW	CLIENT ANG
M. N. N. DA								W.	3	7		10 A A A	TAME	
DATE/TIME 13/11/00			The second secon				4	<	<	_		(B)	Purge Attack V	DATE 12/19/00
100 900				Company of the control of the contro	Control of the Contro			25	2.8		Carsen.	AREA IN ACC	MISC	119/00
	The Course							23a	23a	4	180	1	ш5 🗕	

DATE/TIME

RECEIVED BY

RELINQUISHED BY

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY M4-203

PROJECT ROCKETDYNE CLIENT AMEC DATE 17/19 60

REL	URROGATES: D6-Benzene					٠.		₩",	 , ,	2002/002	gus/102/502	5R5V02/504	RSV met 500	105/01 S.07	SAMPLE ID-Depth(ft)
NQUISH	nzene	 	3	× .	· ·					111	11/	22	8		ID-Dept
RELINQUISHED BY: Saway & Tam	D8-Toluene		** **** ****				,	***		RV973	RV972	4012	水(で)	R1969	h(ft) <i>EP</i> 4 (T)
ware										\ \ \	3	9		14160	INSTALLED
3.	D-Chloroform ₋													REINSOU 705	LLED
										766 –	755 -	726-	1726 -	705 -	SAMPLED
RECEIVED BY	D6-DMK									888	808	242	4	718	PLED
	D-DCM									71V	<u>=</u>	Xe	65	X&	BULB ID
and M														(50	FLOW ml/min
M. Read										ũ	$\bar{\omega}$	4	6	23	TIME
DATE/TI														100	Purge Vol
DATE/TIME 12/19/00										<	<	7	1	<	SDPROFIL ALCOHOL Leak Check
100 900										2,5	5		nd	AREA IV ACC	MISC Swmu #
l _a										23a	23a	41	Fuel for	7	# 5-J

HydroGeoSpectrum Inc. POB 49259 I.A. CA 90049 Phono(210)458 0072

DATE/TIME

RECEIVED BY

RELINQUISHED BY

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY M4-203

REL	REL	SURROGATES: D6-Benzene		٠		:					2002/B02	Bus/02/502	5RSV42/544	SACHER SON	MCSVOIS 02	SAMPLE ID-Depth(ft)	
RELINQUISHED BY	INQUISI	enzene					·				, 11	=,	22	8,	0	D-Dep	ROJEC
ED BY	HED BY:	D8-Toluene		÷			.:				RV973	RV972	RVG7	大 大 大 大 大 大 大 大 大 大 大 大 大 大	RV969	Ð	PROJECT ROCKETDYNE
	RELINQUISHED BY: Jawaia E. Lau	D-Chloroform									<u> </u>	5			1411/00 REINSTALL	INSTALLED	JANE
RECEIVED BY	RECEIVED BY	m D6-DMK									755 - 808	755 - 808	726- 743	441 - 201	705 - 718	SAMPLED	CLIENT_
BY		D-DCM									412	<u>=</u>	Xe	65	X&	BULB ID	NT AMEC
	mes the														(50	FLOW ml/min	
	M. Roed										ũ	ū	4	16	(A)	TIME min	
_DATE/TIME	DATE/T									,				-	[00)	Purge Vol	
TME	DATE/TIME 12/19/00										ς.	<	7	1	ς	HOPPOML ALCOHOL Leak Check	DATE 12
	100 900										2,2	5.5		Pun	AREA IV ACC	MISC Swmu #	119/00
	`				,						23a	23a	17	rusus fee	7	W 5-111	

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

PROJECT ROCKETDYNE	
CLIENT AMEC/OGDEN	
DATE $(\nu/(9) \infty$	

SAMPLE ID-Depth(ft)	E ID-Dept	h(ft)	INSTALLED	SAMPLED	BULB	FLOW ml/min	TIME	Purge Vol	Accordo Leak Check	MISC SWHW #	#877
12		RV9675	11/30/00	1005- 1018	78	150	a	100ml	¥	4.12	The read Pu
366-	22/4	RV974 EEMSON	1.2/11/00	1026 - 1043	N2		4		<	<	45
	6.5	1848/N	12/13/00	1054 - 1106	2		Ū		7	AREA I ADO	N/A
C75VII/5\$1	25	ENGT6	2	105H - 1105	77				7		N/A
		#F2/21	٩)	XIG				7		
CTSV 172/501	3	RNATE	10	1110-1121	H.		11		(
CTSV 12/502	7		11	1110 - 1122	R6		2		7		
0151 10/501	4	RVABO	3	1115 - 1127	XI8		12		\		
CTSY 13/50/	3.5	RV 980 3	9	1128 - 1140	46		12		~		
CT5V14/501		RV 987	F	1132 - 1142	り に		Ō		<	-	7
-						,					(

iURROGATES: D6-Benzene	enzene	D8-Toluene	D-Chloroform	rmD6-DMK	D-DCM						
REL	INQUISHI	RELINQUISHED BY: Barbara	Mara E.	AN RECEIVED BY		ome Whee	Ree	DATE/TI	DATE/TIME_/2/(1/00)	128c/ 00	∨ į
	,	7						,	/ /		

RECEIVED BY

DATE/TIME

RELINQUISHED BY

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

PROJECT KOKETOKNE

CLIENT AMEC/DADEN DATE 12/19/00

SURROGATES: D6-Benzene_ CT SY 11 / SØ2 01510/601 CTS/12/501 CTSVII/60/ CT6014/501 CL2X 12/20/ 212/12/202 OTSVA /SØ1 4507 ID# HSY0754 F5120 802 10 SAMPLE ID-Depth(ft) ナンメ 6.5 12 RV974 EL S 25 Ŵ O) Ļ Ň たいらなった RV 987 K カメ 980 大くりのよう 2/976 RV and EPA 10 KN gra N RIVATION 大元人 D8-Toluene_ S 11/30/00 INSTALLED 12/13/00 12/11/00 D-Chloroform_ 1500 1026-188 = 0 101 102 150 <u>|</u> 1128 122 SAMPLED ١ ١ $D6\text{-}DMK_$ 640 640 <u>0</u> 501 106 = W ロチロ 1122 112 1142 十27 BULB の仕 2 8 S S 27 マス ナメ F が X 父の D-DCME FLOW ml/min 8 TIME \widetilde{O} $\bar{\omega}$ Ū J. 7 $\overline{\eta}$ Purge Vol 100ml HOPEOFYL Alcortoc Leak Check 7 AREA I ADO MISC 4.12 X//4 2/2 42 B #875 Land L

RELINQUISHED BY: Barbara RELINQUISHED BY RECEIVED BY RECEIVED BY Lame, M. Ree DATE/TIME 12/19/00 DATE/TIME 1285

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY M4- ユロゲ

DATE 12/20/00

RELINOUISHED BY	RELINQUISHED BY:	URROGATES: D6-Benzene D8-Toluene.						¥		115447543 14.5 RV 9842	101	15VD7501 5' RV9831	SAMPLE ID-Depth(ft) アミタカン モスタ・レラ	PROJECT Roc
`		ne D-Chloroform								1,2),4/00	12/14/00	12/14/00	INSTALLED	ROCKET DYNE
RECEIVED BY	RECEIVED BY.	rmD6-DMK								1650-1605	1	1662-1602	SAMPLED	CLIENT
BY	BY	D-DCM	The state of the s							B11		8X	BULB	NT
	me Kil	1								150	ϕ	150	FLOW ml/min	AMEC
	7									15	1	12	TIME min	
DATE/TIME	DATE/TI									100ml	1	100mj	Purge Vol	
A A	ME 12									1	1	7	150 Map y L Achoho L Leak Check	DATE_
•	DATE/TIME 12 20 00									AIAOC	ļ	AIAOC	MISC SWMJ #	12/20/00
	530												# <i>2.1</i> u	00

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY パヤー ユのヤ

							 		 					1
REI	REI	SURROGATES: D6-Benzene										125VØ7501	SAMPLE ID-Depth(ft) アーカン モル	_
INQUI	INQUI	enzene_		******						14.5	101	αĴ	E ID-DO	PROJECT_
RELINQUISHED BY	RELINQUISHED BY:	D8-Toluene								RV9842	1		epth(ft) J EM 15	
	A P	D-Chloroform								12/14/00	12/14/00	12/14/00	INSTALLED	KOCKET DYNE
RECEIVED BY		rmD6-DMK								1650-1605	,	1650 — 16 0 7	SAMPLED	CLIENT
BY	*	D-DCM								B11		X8	BULB ID	NT
	and he									150	ϕ	150	FLOW ml/min	AMEC
	5									15		12	TIME min	
DATE/TIME	DATE/TIME_									100ml	1	lnoal	Purge Vol	
ME	1		/							1		7	Achehol Leak Check	DATE
	12/20/00									AIAOC		MAOC	MISC รพฑบ #=	12/20/00
	53%												# 570	00

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

CLIENT AMEC DATE 12/21/00 1111000

RE		RROGATES: D6-Benzene				+÷m:			15072D03	LSV72503	15V7250Z	LSV72501	165471501	15V70502	125470501	SAMPL)	(
RELINQUISHED BY_	Norman	senzene							15	15	10'	6,	ŗv^	91	مک	SAMPLE ID-Depth(ft)	PROJECT
ED BY		D8-Toluene		. 4				-	AV992	RV991	RY950	24989	R8618	AV987	RY986	15/4/12 th(ft)	
		D-Chloroform							&					-	12)17)00	INSTALLED	ROCKETDYNE
RECEIVED BY	THE CERTIFICATION OF THE COLUMN TWO IS NOT T	rmD6-DMK							1021-1036	1021-1036	1003-1018	1003-1015	0936-0948	0912-0925	0912-0924	SAMPLED	CLIENT
T. Ball		D-DCM							HG	89	K/b	A5	72	AIL	28	BULB ID	
								•		150	<		150	<u></u>	150	FLOW ml/min	AMEC
DATE/TIME									12	15	15	12	12	W	17	TIME	
1 1														←	(maal	Purge Vol	
	1/00								7	1	۲	١	١	7	1	Leak Check	DATE
	17/71/00 10:50 am								4		*		<-	*	4.3)4.4	MISC א עאשא #	12/21/00
									*		106	106	107	-	628	vls#	

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

CLIENT_

PROJECT_

									•	
SAMPLE ID-Depth(f	424 1000	INSTALLED	SAMPLED	BULB ID	FLOW ml/min	TIME	Purge Vol	794 Leak Check	MISC Swau #	tols
125463501 5	1	12/12/00	NOWE	522	φ		100ml	1	h.h(£.h	501
115463592 10"	1.		NONE	X7	ġ	1		1		103
125464501 5'	PV 993	Ŝ	1304-1316	#1	150	12'		1	•	
125464507 10'	er994	2	1304-1318	X8	150	141		~		
115464503 151	PV 995	(G)	1304-1319	£5	150	15'	\	7		*
115465501 6'	R1996	<u> </u>	1326-1338 X7	X 7	150	12	L	1		102
125467501 3'	Rv997	~	1347-1359 811	\mathcal{B}_{IJ}	150	12		7		100
11546750Z 8')		1347-	522	ϕ			1		
15467503 13"	PN998	CV	1347-1401	RG	150	14	•	1	*	1
125468501 3.51	RV999		+141-50HI	522	150	12		1		104
12.5 1ad801571	1 TYDO)	7	1405-1417-WI	٤_	150	17	<	1		104
¹ RROGATES: D6-Benzene	D8-Toluene	P-Chloroform	mD6-DMK	_ D-DCM						
		1 5)	1						
RELINQUISHED BY:	HED BY:		RECEIVED BY	Jan 1	D.	DATE/TIME_		12-21-00 14:45	4.45	

RELINQUISHED BY_

RECEIVED BY

HydroGeoSpectrum SOIL V. POR CHAIN OF CUSTODY

AN CENTEST DOPPORTED IN A SELECTION OF THE SECOND SELECTION OF THE SECOND SECON							115V72P03 15'	165472507 15'	115Y 72502 10'	11.5472501 6'	1154754 5	115472502 9'	165470501 5	SAMPLE ID-Depth(ft)	PROJECT
VA (Cell	- 1g				,		æ1992	RY99/	KVISO	AV989	RY788	EV987	RV986	u	Ĺ
D-Chlaroform							-						217/00	ONTIKLSNI	ROCKETDYNO
RECEIVED BY							1021-1036	1071-1036	1003-1018	1003-1015	0936-0948	0912-0925	0912-0924	SAMPLED	CLIENT
D-DCM							HG	85	¥6	1/5	12	Alb	28	ELLULB ID	
DA.							*	150	•		150		150	ITLOW Inf/ntln	AMEC
TE/TIME							15	15	15	12	12	W	17	T DATE	
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Sam							4	-	*				H. H. (E'H	MISC SUMP #	2/2/00
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PAGE: 04

410.0N

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2723 256 505:0T

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

W14-W3

R	R.	ROGATES: D6-Benzene						SV72D03	SV72503	5Y7250Z	1052£AS	5175H	5V7B5PZ	SYFOSOI	SAMPI	
RELINQUISHED BY	RELINQUISHED BY:	Benzene						15/	15	10'	e	5	91	c.i	SAMPLE ID-Depth(ft) エム アかれ ビル	PROJECT
ED BY	ED BY:	D8-Toluene		*				AV992	RV991	RV950	£4989	RY988	RV987	PV986	(h(h)	
0		e D-Chloroform.						-					K .	12/17/00	INSTALLED	ROCKETDYNE
_ RECEIVED BY _	RECEIVED BY	rm D6-DMK_						1021-1036	1021-1036	1003-1018	1003-1015	0936-0948	0912-0975	0912-0924	SAMPLED	CLIENT
6	MonGN	D-DCM						HG	89	Ř		2	Asto	128	BULB ID	
							•	-	150	<		150	<u></u>	150	FLOW ml/min	AMEC
DATE/TIME	DATE/TIME							15	15	15	12	12	Ü	17	TIME min	
													-	(mag)	Purge Vol	
	12/21/00							7	۲	٢	١	١	7	1	Leak Check	DATE
	10:50 Am							4		*		-	~	4.3)4.4	MISC Sway #	12/21/00
								4		106	106	107	-	628	vls #	

HydroGeoSpectrum SOIL VAPOR CHAIN OF CUSTODY

[q	PROJECT		Ketz	ROCKETDYNE	CLIENT		MEC			DATE_	12/21/00	
SAMPLE ID-Depth(ft)	ID-De	F. F. C.	INST	INSTALLED	SAMPLED	BULB ID	FLOW ml/min	TIME min	Purge Vol	TPA Leak Check	MISC Swap #	by #
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RROGATES: D6-Benzene	nzene	D8-Toluene		D-Chloroform	mD6-DMK	D-DCM						
			AL)	,	ı	•						
RELI	NQUIS	RELINQUISHED BY:	V);	RECEIVED BY	Mary P.	D.	DATE/TIME		12-21-00 1	14.48	

RELINQUISHED BY

RECEIVED BY

DATE/TIME

Chain of Custody Record

3299 Hill Street, Suite 305 Signal Hill, CA 90755

Voice: 562.498.7005 Fax: 562,498.8617

Centrum Job # M4-791

1401 Research Park Drive, Suite 100 Analytical 1401 Research Park Drive, Suite 100
Laboratories, Inc. Riverside, CA 92507
www.cemrumHabs.com

Fax: 909.779.0344

Analyses Requested

Project No: 1890863	Project No: 1890863,011209				Project Name: Boeing SSFL	ssfL						,	Turn	Turn-Around Time
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Project Manager:	Janager				Phone:			Fax:	Į.		lloa			1 48 Hr. RUSH
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(Report and GZ-ng)	82.5mg)				(Report and BC	Buj		Ş					additio	additional charges apply
Montg	Montgomery Watson Harza				300 N. L Pasadei	ake Ave na, CA 9	300 N. Lake Avenue, #1200 Pasadena, CA 91101	9			loriosia i om 609\$8		Requested	Requested due date:
Centrum (D	Sample ID	Depth	EPA	BULB	Time S	Time Sampled	Flore	Date	Sample	Containers:				3
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1	SRSYDG SOI	7	MV566	M4-12	560 6160	0931	55				XΧ			
1	SKSV10 SOL	HAY T	MV567	M4-13	45 04 04 54	4540	061				XX			
4	5854 11 SOI	3	MV568		7590	boal					X		brown	Brown - shortest
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1) Relinga	1) Relinquished by: (Sampler's Signature)	1/2/2/	Time:		ed by:			Datts;	Teme:	To be carepteded by Laboratory personniek	aratory person	41	Sar	Sample Disposal
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The delive	The delivery of samples and the signature on this chain of custody form	ls chain of	custody form	Si Relinquished by:	ed by:			C) and e:	Ě	All sample containers intact? To Yes (3 No	TRECT OF VES CI	¥	Sesoration of	sal
constitute the Terms	constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	ss specifier hereof.	s above under	S. Received !	for Laboration	;kq	7	Dally (2)	Time:	O Couriar O UPS/Fed Ex Mand sarried	En formand car	ne d		
Laborato	Laboratory Notes:					6	1				1		Samp	Sample Locator No.
				>										

tab@centrum-labs.com

Centrum



DATA ASSESSMENT FORM

Project Title: Boeing SSFL RFI, Group 6 Data Gap

Project Manager: D. Hambrick

Analysis/Method: Volatiles by EPA Method 8260B

QC Level: V1

SDG: M4-791 Matrix: Soil Vapor

No. of Samples: 10

No. of Reanalyses/Dilutions: 0

Date Reviewed: March 16, 2006

Reviewer: P. Meeks

Reference: USEPA Contract Laboratory Program National Functional

Guidelines for Organic Data Review (2/94), and Interim Guidance for Active Soil Gas Investigations, State of California Regional Water Quality Control Board - Los Angeles Region (LARWQCB, 1997), and Advisory – Active Soil Gas Investigations, LARWQCB

and Department of Toxic Substance Control (2003)

Samples Reviewed: MV565, MV566, MV567, MV568, MV569, MV570, MV571,

MV572, MV573, MV574

Data Validation Findings

	Findings	Qualifications
1. <u>Sample</u> <u>Management</u>	The COC was signed and dated by field and mobile laboratory personnel. According to the COC and the instrument run log, the eight-hour holding time was met for all samples.	No qualifications were required.
3. <u>Calibration</u>	The BFB tune was acceptable and all samples were analyzed within 12 hours of the BFB tune.	No qualifications were required.
	The %RSDs for the initial calibration were all within the control limit of ≤20% and ≤30% for trichlorofluoromethane, dichlorodifluoromethane, trichlorotrifluoromethane, chloroethane, and vinyl chloride.	

Project: Boeing RFI SDG: Analysis:

M4-791 VO

	Findings	Qualifications
3. <u>Calibration</u> (cont.)	The %Ds for the continuing calibrations were within the control limit of ≤15% and ≤25% for trichlorofluoromethane, dichlorodifluoromethane, trichlorotrifluoromethane, chloroethane, and vinyl chloride.	
4. Method Blanks	One ambient air method blank was analyzed in association with the samples in this SDG. No target compounds were reported above the CRDL.	No qualifications were required.
6. Surrogates	All surrogate recoveries were within the LARWQCB method-established control limits of 75-125%.	No qualifications were required.
10. Other	Samples MV570 and MV571 were identified as the field duplicate pair associated with the samples in this SDG. No target compounds were detected in either sample and the pair was considered to be in agreement. As there were no sample detects, the mobile laboratory analyzed an LCS spiked at the reporting limit. All %Ds were considered acceptable.	No qualifications were required
Comments	Per previous conversations with the analyst, compounds crossed out in the mass spectrometer raw data and annotated with, "ID," refer to compounds reported by the instrument but which lacked a spectral match.	No qualifications were required.

Level V validation consists of cursory review of the summary forms only; raw data is not evaluated. The reported values on the summary forms are presumed to be correct and no verification of the values from the raw instrument output is performed. Criteria not reviewed included instrument performance, analytical sequence, initial calibration, continuing calibration, compound identification, and compound quantification.



Project No: Boeing SSFL / 1890863.011209 (RWQCB labFrom 10A; Ver6/00)

ANALYTICAL RESULT FOR ORGANICS

8600

METHOD: GCMS REPORTING UNIT: µg/L of Air

	DATE AN	ALYZED	02/27/06	02/27/06		02/27/06	02/27/06	02/27/06
					369		022706M4V1369	
	LAB SAM		Amb. Blank	M4-791-01		M4-791-02	M4-791-03	M4-791-04
	CLIENT SAM		NA	SRSV08S0	1	SRSV09S01	SRSV10S01	SRSV11S01
		DEPTH	NA	3'		4'	4'	5'
		EPA ID	NA	MV565		MV566	MV567	MV568
-	DILUTION F	ACTOR	1	Re	W.	00 1 RW	Guy 1 Rev	God 1 Rev
COMPOUND		CRDL		6.	L	Code Qual	Code asa	Code Qual
Benzene		1.0	ND	ND ND	J	ND U	ND U	ND U
Carbon tetrachloride		1.0	ND	ND		ND	ND Î	ND
Chloroethane		1.0	ND	ND		ND	ND	ND
Chloroform		1.0	ND	ND		ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND		ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND		ND	: ND	ND
1,2-Dichloroethane		1.0	ND	ND		ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND		ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND		ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND		ND	ND	ND
Ethylbenzene		1.0	ND	ND		ND	ND	ND
Methylene chloride		50	ND	ND		ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND		ND	ND	ND
1,1,2,2-Tetrachloroethane		2.0	ND	ND		ND	ND	ND
Tetrachloroethene		1.0	ND	ND		ND	ND	ND
Toluene		1.0	ND	ND		ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND		ND '	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND		ND	ND	ND
Trichloroethene		1.0	ND	ND		ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND		ND	ND	ND
Trichlorotrifluoroethane		5.0	ND	ND		ND	ND	ND
Vinyl chloride		2.0	ND	ND		ND	ND	ND
Xylenes, m-,p-		2.0	ND	ND		ND	ND	ND
Xylene, o-		1.0	ND	ND 🔻	/	ND 😓	ND 🔱	ND 🥢
TENTATIVELY IDENTIFIED	COMPOUND	3				ļ		
Isopropyl Alcohol (Tracer)			ND	ND		ND	ND	ND
SURROGATE	SPK	ACP%	%RC	%RC		%RC	%RC	%RC
	CONC							
d-Methylene Chloride	50	70-130	123	117		113	109	115
d-Chloroform	50	70-130	116	113	_	108	107	109
d-Benzene	50	70-130	121	117		1 <u>12</u>	109	111
Dibromofluoromethane	50	70-130	97	99		98	100	99
Toluene-d8	50	70-130	102	101		101	105	101
Bromofluorobenzene	50	70-130	100	101		101	101	100



Project No: Boeing SSFL / 1890863.011209

(RWQCB labFrom 10A; Ver6/00)

ANALYTICAL RESULT FOR ORGANICS

METHOD: GCMS REPORTING UNIT: µg/L of Air

	DATE AN	AL YZFD	02/27/06	02/27/06	02/27/06	02/27/06	02/27/06
					022706M4V1369		
	LAB SAM		M4-791-05	M4-791-06	M4-791-07	M4-791-08	M4-791-09
	CLIENT SAM		SRSV11S02	SRSV11S03	SRSV11D03	SRSV11S04	OCSV01S01
		DEPTH	13'	20'	20'	27'	7'
	·	EPA ID	MV569	MV570	MV571	MV572	MV573
	DILUTION F		1 Rev	and 1 Kaw	and 1 Per	The state of the s	Qual 1 Rev
COMPOUND		CRDL	Dod		Code Ougl	Cods Quel	Code and
Benzene		1.0	ND U	ND ()		ND U	ND U
Carbon tetrachloride		1.0	ND	ND 1	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND	ND
Dichlorodifluoromethane		1.0	ND	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND	ND
Methylene chloride		50	ND	ND	ND	ND .	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		2.0	ND	ND	ND	ND	ND
Tetrachioroethene		1.0	ND	ND	ND	ND	ND
Toluene		1.0	ND	ND	DI	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND	ND
Trichlorotrifluoroethane		5.0	ND	ND	ND	ND	ND
Vinyl chloride		2.0	ND	ND	ND	ND	ND
Xylenes, m-,p-		2.0	ND	ND	ND	ND	ND
Xylene, o-		1.0	ND 🎶	ND ,	ND 💠	ND 🎶	ND 🎶
TENTATIVELY IDENTIFIED	COMPOUNDS	S					1
isopropyl Alcohol (Tracer)			ND	ND	ND	ND	ND
SURROGATE	SPK	ACP%	%RC	%RC	%RC	%RC	%RC
d-Methylene Chloride	50	70-130	113	117	112	111	112
d-Chioroform	50	70-130	107	113	106	104	108
d-Benzene	50	70-130	110	117	107	107	110
Dibromofluoromethane	50	70-130	100	100	98	93	97
Toluene-d8	50	70-130	103	103	102	92	101
Bromofluorobenzene	50	70-130	100	102	101	99	99



Project No: Boeing SSFL / 1890863.011209 (RWQCB labFrom 10A; Ver6/00)

ANALYTICAL RESULT FOR ORGANICS

METHOD: GCMS REPORTING UNIT: µg/L of Air

	ATÉ ANAI		02/27/06			
			022706M4V1369	·		
	AB SAMP		M4-791-10			
CLIE	NT SAMP	$\overline{}$	OCSV03S01			
		DEPTH	7'			
		PA ID	MV574			
DiL	UTION FA	CTOR	1 Rev	Quel		
COMPOUND		CRDL	Que	(e-0 +		
Benzene		1.0	ND U			
Carbon tetrachloride		1.0	ND 1			
Chloroethane		1.0	ND			
Chloroform		1.0	ND			
Dichlorodifluoromethane		1.0	ND			
1,1-Dichloroethane		1.0	ND			
1,2-Dichloroethane		1.0	ND			
1,1-Dichloroethene		1.0	ND :	-		
cis-1,2-Dichloroethene		1.0	ND	ł		
trans-1,2-Dichloroethene		1.0	ND			
Ethylbenzene		1.0	ND			
Methylene chloride		50	ND			
1,1,1,2-Tetrachloroethane		1.0	ND			
1,1,2,2-Tetrachloroethane		2.0	ND			
Tetrachloroethene		1.0	ND			
Toluene		1.0	ND			
1,1,1-Trichloroethane		1.0	ND			
1,1,2-Trichloroethane		1.0	ND			
Trichloroethene		1.0	ND	ļ		
Trichlorofluoromethane		1.0	ND			
Trichlorotrifluoroethane		5.0	ND	l		
Vinyl chloride		2.0	ND			
Xylenes, m-,p-		2.0	ND			
Xylene, o-		1.0	ND 🖖			
TENTATIVELY IDENTIFIED COM	POUNDS			1		
Isopropyl Alcohol (Tracer)			ND			
SURROGATE	SPK	ACP%	%RC			
	CONC					
d-Methylene Chloride		70-130	107			
d-Chloroform		70-130	108			
d-Benzene		70-130	105			
Dibromofluoromethane		70-130	104			
Toluene-d8		70-130	116			
Bromofluorobenzene	50 7	70-130	107			



550 South Wadsworth Blvd., Suite 500, Lakewood, CO 80226 303/935-6505, Fax 303/935-6575

DATA ASSESSMENT FORM

Project Title: Rocketdyne SSFL RFI

QC Level: V¹ SDG: 24

Matrix: Soil Vapor No. of Samples: 47

No: of Reanalyses/Dilutions: 0 <u>Date Reviewed</u>: April 24, 2001 <u>Reviewer</u>: K. Chapman

Reference: USEPA Contract Laboratory Program National Functional Guidelines For Organic Data Review, (Feb. 1994), and Interim Guidance For Active Soil Gas Investigation, State of California

Regional Water Quality Control Board (LA Region).

EPA Level V – Volatiles Assessment

Data Validation Findings

		Problems	Qualifications
1.	Sample Management	There were instances on the COC of uninitialed corrections to the information.	No qualifications were required as field logs were reviewed to verify the accuracy of the undocumented corrections. Field personnel reviewing the accuracy of the field logs initialed and dated the COCs.
4	Method Blanks	No problems were noted with the method blanks. Five method blanks were analyzed with this SDG. No target compounds were detected in the method blanks.	No qualifications were required.

T300VO52 1 Revision 1

Project: Rocketdyne SDG: 24 Analysis: Soil Vapors

	Problems	Qualifications
6.0		Z
6 <u>Surrogates</u>	Samples RV819, RV833, RV827, and RV804 had surrogate recoveries outside the laboratory-established QC limits. The original analysis of samples RV811 and RV813 had surrogate recoveries below the control limits. These samples were	Samples with surrogate recoveries below the QC limit were qualified estimated, "UJ" for nondetects and "J" for detects. Samples with surrogate recoveries above the QC limits were qualified "J" for detects only.
	reanalyzed the following day. The reviewer chose to report the original analyses and hand-corrected the Form Is to reflect the low surrogate recoveries.	Results for these samples were qualified estimated, "UJ" for nondetects and "J" for detects.
7. <u>Calibration</u>	The calibration verification standard analyzed with samples RV819-RV833 exhibited %D outliers for tetrachloroethene and dichlorodifluoromethane.	Samples RV819-RV833 were qualified as estimated, "UJ" for the noted compounds.
	The calibration verification standard analyzed with samples RV803-RV816 exhibited a %D outlier for chloroethane.	Samples RV803-RV816 were qualified as estimated, "UJ" for the noted compound.
	The calibration verification standard analyzed with samples RV817 and RV818 exhibited %D outliers for tetrachloroethene and dichlorodifluoromethane.	Samples RV817 and RV818 were qualified as estimated, "UJ" for the noted compounds.
10. Other	According to the laboratory, the reporting limit of either 10 ppb or 20 ppb on the Form Is for 1,1,2-trichloro-trifluoroethane is incorrect. This reporting limit should be 5.0 ppb. The reviewer hand-corrected the Form Is to reflect the correct reporting limit. As the laboratory MDL study does support a reporting limit of 1.0 ppb, detects between 1.0 ppb and 5.0 ppb were reported as estimated values.	Detects below 5.0 ppb reported for samples RV787, RV788, RV796-RV810, RV812, and RV815-RV833 were qualified as estimated "J."
	The detects for cis-1,2-dichloroethene and trichloroethene in sample RV801 were reported from a 10 × dilution.	These results were noted on the Form I as being reported from a dilution.
Comments	None.	

¹ A modified level V validation was performed, reviewing only the sample management, surrogate, blank, and calibration data. The blank and surrogate qualifications are based solely upon summary information, unless otherwise noted. The reported values on the summary forms are presumed to be correct and no verification of the values from the raw instrument output is performed.



Reporting Unit: ug/L

(800)	798-9336
(000)	/ /0"////

DATE ANALYZ		ANALYZED	07/31/00	07/31/00	07/31/00	07/31/00	
ANALYTICA		· · · · · · · · · · · · · · · · · · ·		000731M4V219 000731M4V2		9 000731M4V219	
		N FACTOR	1.0	1.0	1.0	1.0	
		AMPLE I.D.	NA	LXSV05S01	LXSV05S02	EVSV10S01	
). & DEPTH	NA	RV787 5'	RV788 11'	RV789 4'	
		AMPLE I.D.	Blank	M4-150-01	M4-150-02	M4-150-03	
COMPOUND		RL		Rev Wind	Rev and	der Chi	
Dichlorodifluoromethane		1.0	ND	NDU	NDU	NDU	
Vinyl Chloride		1.0	ND	ND	ND	ND	
Chloroethane		1.0	ND	ND	ND	ND	
Trichlorofluoromethane	-	1.0	ND	ND	ND	ND	
1,1-Dichloroethene		1.0	ND	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	ND	
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND	
1,1-Dichloroethane		1.0	ND	ND	ND	ND	
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND	
Chloroform	-	1.0	ND	ND	ND	ND	
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND	
Carbon Tetrachloride		1.0	ND	ND	ND	ND	
1,2-Dichloroethane		1.0	ND	ND	ND	ND	
Benzene		1.0	ND	ND	ND	ND	
Trichloroethene		1.0	ND	ND	ND	ND	
Toluene		1.0	ND	ND	ND	ND	
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND	
Tetrachloroethene		1.0	ND	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND	
m,p-Xylenes		2.0	ND	ND	ND	ND	
o-Xylene		1.0	ND	ND 🗸	ND.y	ND.	
1,1,2,2-Tetrachloroethane		1.0	ND	NDU	NDU	NDW	
1,1,2-Trichloro-trifluoroethane		5.020	ND	4.1 ND J -	4.2.NO J -	6.8 ND -	
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC	
	CONC						
d-Methylene Chloride	50	75-125	101	83	96	98	
d-Chloroform	50	75-125	104	85	. 99	98	
d-Benzene	50	75-125	102	86	101	99	
Dibromofluoromethane	50	75-125	106	104	103	102	
Toluene-d8	50	75-125	101	101	102	101	
Bromofluorobenzene	50	75-125	114	111	113	110	

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable





Reporting Unit: ug/L

	07/31/00	07/31/00	07/31/00	07/31/00		
DATE ANALYZED ANALYTICAL BATCH				000731M4V219	000731M4V219	000731M4V219
		N FACTOR		1.0	1.0	1.0
		AMPLE I.D.		EVSV11S02	EVSV13S01	EVSV15S01
		. & DEPTH		RV791 13'	RV792 4'	RV793 4.5'
		AMPLE I.D.		M4-150-05	M4-150-06	M4-150-07
COMPOUND	LAD O	RL	Rev ton			
Dichlorodifluoromethane		1.0	ND _{IA}	NDW	NDu	NDu
Vinyl Chloride		1.0	ND	ND I	ND.	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND,	ND,
Benzene		1.0	ND	ND	NDU	NDW
Trichloroethene		1.0	ND	ND	150	1.1
Toluene		1.0	ND	ND	NDW	NDIA
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND ,	ND 🗸	ND
1,1,2,2-Tetrachloroethane		1.0	NDW	NDW	NDW	NDM
1,1,2-Trichloro-trifluoroethane		5.020	7.4 NHD -	7.0 NO -	10 NÐ -	9.7 ND -
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	50	75-125	105	104	103	84
d-Chloroform	50	75-125	105	106	, 106	85
d-Benzene	50	75-125	107	107	111	88
Dibromofluoromethane	50	75-125	102	105	103	104
Toluene-d8	50	75-125	101	99	100	103

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

50

75-125

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



111

114

109

112

Bromofluorobenzene



Reporting Unit: ug/L

	DATE ANALYZED				07/31/00			
IA.	ANALYTICAL BATCH			19	000731M4V2	19		
	DILUTIO	N FACTOR	1.0		1.0			
С	LIENT S	AMPLE I.D.	SLSV19S01		SLSV20S01	1		
1	EPA I.D	. & DEPTH	RV794 1'		RV795 4'			
	LAB SA	MPLE I.D.	M4-150-08		M4-150-09			
COMPOUND		RL	Rev (Colc	Revi	Code		
Dichlorodifluoromethane		1.0	NDu	$\overline{}$	NDU	Ī		
Vinyl Chloride		1.0	ND		ND			
Chloroethane		1.0	ND	\Box	ND			
Trichlorofluoromethane		1.0	ND		ND			
1,1-Dichloroethene		1.0	ND	\neg	ND			
Methylene Chloride		1.0	ND	\dashv	ND			
cis-1,2-Dichloroethene		1.0	ND		ND			
1,1-Dichloroethane		1.0	ND	\dashv	ND	\neg		
trans-1,2-Dichloroethene		1.0	ND		ND			
Chloroform		1.0	ND	\neg	ND			
1,1,1-Trichloroethane		1.0	ND	ヿ	ND			
Carbon Tetrachloride		1.0	ND	一	ND			
1,2-Dichloroethane		1.0	ND	\neg	ND			
Benzene		1.0	ND		ND			
Trichloroethene	_	1.0	ND	\neg	ND			
Toluene		1.0	ND	\neg	ND	\neg		
1,1,2-Trichloroethane		1.0	ND	\neg	ND			
Tetrachloroethene		1.0	ND	\neg	ND	\neg		
Ethylbenzene		1.0	ND		ND			
1,1,1,2-Tetrachloroethane		1.0	ND	T	ND			
m,p-Xylenes		2.0	ND		ND			
o-Xylene		1.0	ND.		ND /			
1,1,2,2-Tetrachloroethane		1.0	NDW	\top	NDW	7		
1,1,2-Trichloro-trifluoroethane		5.020	8.9 ND -		8.4 ND -			
SURROGATE	SPK	ACP%	%REC	Ť	%REC			
	CONC							
d-Methylene Chloride	50	75-125	107	Ť	97			
d-Chloroform	50	75-125	110	1	96		,	
d-Benzene	50	75-125	114	\top	96			
Dibromofluoromethane	50	75-125	103	\top	103	\top		
Toluene-d8	50	75-125	95	1	102	1-		1
Bromofluorobenzene	50	75-125	113	\top	112	1		1

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable







Reporting Unit: ug/L

	DATE ANALYZED			08/01/00	08/01/00	08/01/00
A	CAL BATCH	000801M4V220	000801M4V22	0 000801M4V22	0 000801M4V220	
	DILUTIO			1.0	1.0	1.0
C	LIENT S	AMPLE I.D.	NA	SLSV19S02	L2SV01S01	L2SV02S01
	EPA I.	D. & DEPTH	NA	RV796 8'	RV797 7'	RV798 7'
	LAB S	AMPLE I.D.	Blank	M4-151-01	M4-151-02	M4-151-03
COMPOUND		RL		Rev 6	and Review	and Rev a
Dichlorodifluoromethane		1.0	ND	NDu	ND	NDU
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
n,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND /
,1,2,2-Tetrachloroethane		1.0	ND	NDW	NDW	NDW
,1,2-Trichloro-trifluoroethane		5.028	ND	4.2 NOJ X	2.7 NO J -	2.8NDJ -
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
-Methylene Chloride	25	75-125	115	107	118	122
-Chloroform	25	75-125	108	106	, 115	119
-Benzene	25	75-125	115	104	119	123
ibromofluoromethane	50	75-125	102	105	104	101
oluene-d8	50	75-125	100	101	103	101
romofluorobenzene	50	75-125	111	112	110	114

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable





Reporting Unit: ug/L

(800)	798-9336
1000/	, , , , , , , , ,

	NALYZED	08/01/00	08/01/00	08/01/00	08/01/00
			000004141/000		000801M4V220
ANALYTICA		000801M4V220	000801M4V220	000801M4V220	
		1.0	1.0	10	1.0 CLSV42S01
					RV802 6'
LAB SA					M4-151-07
			e Qual col		
	 				NDM
			 		ND
		ND			ND
		ND			ND
	1.0	ND			ND∜
	1.0	ND			NDL
	1.0	ND	ND		120
	1.0	ND	ND	NDW	NDW
	1.0	ND	ND	7.1	1.4
	1.0	ND	ND	NDW	NDM
	1.0	ND	ND	ND	ND
	1.0	ND	ND	ND	ND
	1.0	ND	ND.	ND	ND
	1.0	ND	NDL	NDW	NDL
	1.0	ND	5.3	★ 250	94
	1.0	ND	ND(NDM	ND I A
	1.0	ND	ND	ND	ND/
	1.0	'ND	ND	ND	ND
	1.0	ND	ND	ND	ND
	1.0	ND	ND	ND	ND
	2.0	ND	ND	ND	ND
	1.0	ND V	ND√	ND /	ND
	1.0	NDW	NDIA	NDIA	NDIA
	5.020	3.1 NO J -	4.5ND.5 -	4.3 NO J -	4.3 ND J
SPK	ACP%	%REC	%REC	%REC	%REC
CONC					
25	75-125	79	104	94	116
25	75-125	79	104	95	108
				91	107
					107
		-			103
					112
	SPK CONC	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	IENT SAMPLE I.D. MCSV01S01 EPA I.D. & DEPTH RV799 5' LAB SAMPLE I.D. M4-151-04 RL	IENT SAMPLE I.D. MCSV01S01 CLSV41S01 EPA I.D. & DEPTH RV799 5' RV800 1' LAB SAMPLE I.D. M4-151-04 M4-151-05 RL	IENT SAMPLE I.D. MCSV01S01 CLSV41S01 CLSV42S02 EPA I.D. & DEPTH RV799 5' RV800 1' RV801 11' LAB SAMPLE I.D. M4-151-04 M4-151-05 M4-151-06 RL

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*} Value exceeds upper calibration range and is therefore an estimated value.

**Ver ** reported from 10 x d. lution



Rt = Reporting Limit; MB = Method Blank; ND = Not Detected (Below Rt); NA = Not Applicable



Reporting Unit: ug/L

DATE ANALYZED			D 08/02/00	08/02/00	08/02/00	08/02/00
						
	DILUTION FACTOR			1	1	1
C	LIENT S	AMPLE I.C). NA	B1SV05S02	B1SV05S01	B1SV04S01
	EPA I.I	D. & DEPTI	AN I	RV803 10'	RV804 5'	RV805 6'
	LABS	AMPLE I.D	. Blank	M4-152-01	M4-152-02	M4-152-03
COMPOUND		RL		Sual &	upil Rev 6	inal few Wha
Dichlorodifluoromethane		1.0	ND	NDU		s NDU
Vinyl Chloride		1.0	ND	NDU	ND .	s NDu
Chloroethane		1.0	ND	NDUJ C	NDus (S NDus c
Trichlorofluoromethane		1.0	ND	NDU	ND S	NDU
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND.	ND	ND.
1,2-Dichloroethane		1.0	ND	NDU	ND	NDW
Benzene		1.0	ND	1.1	ND	1.0
Trichloroethene		1.0	ND	NDU	ND	NDU
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	NDW	NDus	ND.
Ethylbenzene		1.0	ND	53	56 J	1.1
1,1,1,2-Tetrachloroethane		1.0	ND	NDU	NDUJ	NDW
n,p-Xylenes		2.0	ND	23	68 J	6.4
o-Xylene		1.0	ND	NDu	NDU5 V	1.1
1,1,2,2-Tetrachloroethane		1.0	ND	NDW	ND 1/2	NDW
,1,2-Trichloro-trifluoroethane		5.010	ND	2.4ND 5 -	2.1 ND J -,2	2.3ND J -
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
-Methylene Chloride	50	75-125	105	97	65*	95
-Chloroform	50	75-125	107	97	67*	98
-Benzene	50	75-125	108	120	73*	102
ibromofluoromethane	50	75-125	102	91	92	102
oluene-d8	50	75-125	102	107	103	100

112

94

106

50

Bromofluorobenzene

75-125



122

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

Rt = Reporting Limit, MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable

^{*}Some surrogate recoveries were outside the acceptance limits due to reproducible sample matrix effects



Reporting Unit: ug/L

	DATE	NALYZED	08/02/00	08/02/00	08/02/00	08/02/00
ANALYTICAL BATCH				000802M4V221	000802M4V221	000802M4V221
DILUTION FACTOR			1	1	1	
CLIENT SAMPLE I.D.		BHSV03S01	HSSV01S02	CLSV40S01	CLSV43S01	
		. & DEPTH	RV806 4'	RV807 11.5'	RV808 2.5'	RV809 4'
LAB SAMPLE I.D.		M4-152-04	M4-152-05	M4-152-06	M4-152-07	
COMPOUND		RL	Chai Co		e Bun Que	e and co
Dichlorodifluoromethane		1.0	NDU	NDU	NDu	NDu
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND 5 C	NDJc	ND J C	ND 7 c
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride	•	1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane	-	1.0	ND	ND	ND,	ND,
Benzene		1.0	ND	ND	NDU	NDW
Trichloroethene		1.0	ND	ND	28	1.8
Toluene		1.0	ND	ND	NDu	NDU
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes	,	2.0	ND	ND	ND	ND
o-Xylene		1.0	ND 🗸	ND√	ND 🗸	ND.
1,1,2,2-Tetrachloroethane		1.0	NDW	NDU	NDW	NDV
1,1,2-Trichloro-trifluoroethane		5.010	2.4ND J -	4.7 ND J -	3.3 ND J -	4.0ND J -
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride	50	75-125	76	79	91	89
d-Chloroform	50	75-125	80	81	95	90
d-Benzene	50	75-125	85	84	99	94
Dibromofluoromethane	50	75-125	102	105	105	101
Foluene-d8	50	75-125	101	100	101	102
Bromofluorobenzene	50	75-125	110	113	112	114

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable







Reporting Unit: ug/L

ir and the second secon	DATE	ANALYZED	08/02/00	08/02/00	08/02/00	08/02/00
	ANALYTICAL BATCH			000802M4V221	000802M4V221	000802M4V221
A	DILUTIO		000802M4V221	1	1	1
		AMPLE I.D.	CLSV45S01	BASV13Q02	BASV13D02	CLSV37S01
		. & DEPTH	RV810 6.5'	RV811 10'	RV812 10'	RV813 3'
		AMPLE I.D.	M4-152-08	M4-152-09	M4-152-10	M4-152-11
COMPOUND	LAD 3/	RL	Rev Wun			
Dichlorodifluoromethane		1.0	ND is	ND 45 5	ND _U	ND US S
Vinyl Chloride		1.0	NDu	ND	NDia	ND 1 1
Chloroethane		1.0	NDus c	ND c	1	ND ,
Trichlorofluoromethane		1.0	NDU	ND C	NDU	ND
		1.0	ND	ND	ND	ND
1,1-Dichloroethene Methylene Chloride		1.0	ND	ND	ND ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND.	ND	ND	ND
Benzene		1.0	NDW	ND	ND ND	ND
Trichloroethene		1.0	4.0	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
n,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND /	ND //	ND./	ND, V
1,1,2,2-Tetrachloroethane		1.0	NDU	NDus 5	NDU	NDNJ S
1,1,2-Trichloro-trifluoroethane		5.010	4.6 ND J -	ma NEL	45 NP) Year	C2 ND T - S
SURROGATE	SPK	ACP%	%REC	%REC Pm	%RECEM	%REC
	CONC			\$10/61	Sivo	
l-Methylene Chloride	50	75-125	87	46 105	122	68 89
l-Chloroform	50	75-125	93	50 101	118	73 84
-Benzene	50	75-125	99	5.5 98	125	76 85
Dibromofluoromethane	50	75-125	110	104 100	102	105 101
oluene-d8	50	75-125	102	102 103	101	105 102
	 			1142	440	4 4 4 4

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

50

75-125

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable

Bromofluorobenzene



110

110 113

113

111 112



Reporting Unit: ug/L

	DATE	ANALYZED	08/02/00	08/02/00	08/02/00	
AI	NALYTIC	AL BATCH	000802M4V221	000802M4V221	000802M4V221	
	DILUTIO	N FACTOR	1	1	1	
С	LIENT S	AMPLE I.D.	CLSV36	CLSV44S01	CLSV37D01	
	EPA I.C	. & DEPTH	RV814 1'	RV815 2'	RV816 3'	
	LAB S	AMPLE I.D.	M4-152-12	M4-152-13	M4-152-14	
COMPOUND		RL.	Rev. Qua	Rev Rul	Rev Wasi Quai Code	
Dichlorodifluoromethane		1.0	NDu	NDu	NDu	
Vinyl Chloride		1.0	NDU	NDu	NDu	
Chloroethane		1.0	ND45 C	NDW a	NDu5 c	
Trichlorofluoromethane		1.0	NDIA	NDu	NDU	
1,1-Dichloroethene		1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	
cis-1,2-Dichloroethene		1.0	ND	ND	ND	
1,1-Dichloroethane		1.0	ND	ND	ND	
trans-1,2-Dichloroethene		1.0	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	
1,1,1-Trichloroethane	7	1.0	ND	ND	ND	
Carbon Tetrachloride		1.0	ND	ND	ND	
1,2-Dichloroethane		1.0	ND	ND	ND	
Benzene		1.0	ND	ND	ND	
Trichloroethene		1.0	ND	ND	ND	
Toluene		1.0	ND	ND	ND	
1,1,2-Trichloroethane		1.0	ND	ND	ND	_
Tetrachloroethene		1.0	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	
n,p-Xylenes		2.0	ND	ND	ND	
o-Xylene		1.0	ND./	ND J	ND.	
,1,2,2-Tetrachloroethane		1.0	NDU	NDU	NDU	
,1,2-Trichloro-trifluoroethane		5.010	5.3 NO -	4.2 ND J -	4.2 NO J -	
SURROGATE	SPK	ACP%	%REC	%REC	%REC	
	CONC					
-Methylene Chloride	50	75-125	77	91	121	
-Chloroform	50	75-125	76	87	121	
-Benzene	50	75-125	82	91	124	
ibromofluoromethane	50	75-125	102	102	104	
oluene-d8	50	75-125	101	102	103	
		75 405	444			

SPK CONC = Spiking Concentration, ACP % = Acceptable Range of Percent; %REC = % Recovery

50

75-125

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Bromofluorobenzene

111

111

110



Reporting Unit: ug/L

	DATE	ANALYZED	08/03/00	08/03/00	08/03/00	T
Al	ANALYTICAL BATCH			000803M4V222	000803M4V222	
	DILUTIO			1	1	
		AMPLE I.D.	NA	CLSV39S01	CLSV38S02	
		. & DEPTH		RV817 6'	RV818 11'	
		AMPLE I.D.	Blank	M4-153-01	M4-153-02	
COMPOUND	LAD O	RL	Didiik	Rev Qua Qual Code	Per Chy Chan Cos	N .
Dichlorodifluoromethane		1.0	ND	ND45 C	NDAT C	<u>. </u>
Vinyl Chloride		1.0	ND	NDu	NDu	
Chloroethane		1.0	ND	ND	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	
1,1-Dichloroethene		1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	
cis-1,2-Dichloroethene		1.0	ND	ND	ND	
1,1-Dichloroethane		1.0	ND	ND	ND	
trans-1,2-Dichloroethene		1.0	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	
1,1,1-Trichloroethane		1.0	ND	ND	ND	
Carbon Tetrachloride		1.0	ND	ND	ND	
1,2-Dichloroethane		1.0	ND	ND	ND	
Benzene		1.0	ND	ND	ND	
Trichloroethene		1.0	ND	ND I	ND	
Toluene		1.0	ND	ND./	ND	
1,1,2-Trichloroethane		1.0	ND	NDu	NDU	
Tetrachloroethene		1.0	ND	NDus c	NDut C	
Ethylbenzene		1.0	ND	NDu	NDU	
1,1,2-Tetrachloroethane		1.0	ND	NDI	NDI	
m,p-Xylenes		2.0	ND	ND	ND	
o-Xylene		1.0	ND	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	ND	ND V	ND V	
1,1,2-Trichloro-trifluoroethane		5.0.10	ND	3.7 ND J -	3.6 ND J -	
SURROGATE	SPK	ACP%	%REC	%REC	%REC	
	CONC					
d-Methylene Chloride	50	75-125	90	76	108	
d-Chloroform	50	75-125	86	75	99	
d-Benzene	50	75-125	89	83	121	
Dibromofluoromethane	50	75-125	103	101	103	
Toluene-d8	50	75-125	103	105	103	
Bromofluorobenzene	50	75-125	111	110	112	

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery





Reporting Unit: ug/L

	DATE ANALYZED			08/04/00	08/04/00	08/04/00
Al	ANALYTICAL BATCH			000804M4V223	000804M4V223	000804M4V223
	DILUTION FACTOR		₹ 1	1	1	1
С	LIENT S	AMPLE I.D	. NA	SRSV02S02	SRSV02S01	SRSV03S01
	EPA I.	. & DEPTI	NA NA	RV819 12'	RV820 7'	RV821 6'
proprietations in the state of	LAB S	AMPLE I.D	. Blank	M4-154-01	M4-154-02	M4-154-03
COMPOUND		RL		Rev Wu	e Runi C	infal Rev Ex
Dichlorodifluoromethane		1.0	ND	NDns L	NDus c	NDusic
Vinyl Chloride		1.0	ND	NDN	NDU	NDu
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND ,	ND	ND
1,1,2-Trichloroethane		1.0	ND	NDM	NDU	NDL
Tetrachloroethene		1.0	ND	ND NJ C	NDh5 c	NDn5 C
Ethylbenzene		1.0	ND	NDW	NDW	NDU
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND]
n,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
,1,2,2-Tetrachloroethane		1.0	ND	ND Å	ND	ND
,1,2-Trichloro-trifluoroethane		5.0,10	ND	7.3 ND 5 -5	2.0NDJ -	2.3 NDJ -
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
-Methylene Chloride	50	75-125	84	148*	123	83
-Chloroform	50	75-125	84	131*	117	81

50

50

50

50

75-125

75-125

75-125

75-125



d-Benzene

Toluene-d8

Dibromofluoromethane

Bromofluorobenzene

96

101

105

112

162*

102

103

111

125

104

103

110

93

102

104

114

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit, MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable

^{*}Some surrogate recoveries were outside the acceptance limits due to reproducible sample matrix effects.



Reporting Unit: ug/L

	DATE ANALYZED		08/04/00		08/04/00	08/04/00	08/04/00
A	NALYTI	CAL BATCH	CH 000804M4V223 0008		000804M4V223	000804M4V223	3 000804M4V223
	DILUTIO	N FACTOR	1		1	1	1
	LIENT S	AMPLE I.D.	SRSV01S01	1	SRSV04S01	SRSV06S01	SRSV07S01
	EPA I.I	D. & DEPTH	RV822 6.5'		RV823 4'	RV824 2'	RV825 2.5'
	LABS	AMPLE I.D.	M4-154-04		M4-154-05	M4-154-06	M4-154-07
COMPOUND		RL	(lev (Qua	Rev W	de ansi a	Le Bai Co
Dichlorodifluoromethane		1.0	NDW	c.	NDUTC	NDus c	NDus c
Vinyl Chloride		1.0	NDU		NDN	NDu	NDM
Chloroethane		1.0	ND		ND	ND }	ND
Trichlorofluoromethane		1.0	ND		ND	ND	ND
1,1-Dichloroethene		1.0	ND		ND	ND	ND
Methylene Chloride		1.0	ND		ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND		ND	ND	ND
1,1-Dichloroethane		1.0	ND		ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND		ND	ND	ND
Chloroform	~-	1.0	ND		ND	ND	ND
1,1,1-Trichloroethane		1.0	ND		ND	ND	ND
Carbon Tetrachloride		1.0	ND		ND	ND	ND
1,2-Dichloroethane		1.0	ND		ND	ND	ND
Benzene		1.0	ND	\neg	ND	ND	ND
Trichloroethene		1.0	ND	\neg	ND	ND	ND
Toluene		1.0	ND.		ND /	ND.	ND.
1,1,2-Trichloroethane		1.0	NDU		ND	NDL	NDW
Tetrachloroethene		1.0	NDNJ	c	ND NJ C	NDust c	NDus C
Ethylbenzene		1.0	NDu		NDIA	NDN	NDW
1,1,1,2-Tetrachloroethane		1.0	ND		ND	ND	ND
n,p-Xylenes		2.0	ND		ND	ND	ND
o-Xylene		1.0	ND	7	ND	ND	ND
,1,2,2-Tetrachloroethane		1.0	ND∜		ND U	NDV	ND
,1,2-Trichloro-trifluoroethane		5.020	2.2 NO J -		3.8 ND J -	3.9 ND J -	3.5 NDJ -
SURROGATE	SPK	ACP%	%REC		%REC	%REC	%REC
	CONC			_}			[[
-Methylene Chloride	50	75-125	77	T	112	111	100
-Chloroform	50	75-125	75		108	94	80
-Benzene	50	75-125	86	7	122	116	92
ibromofluoromethane	50	75-125	104	\top	102	101	99
oluene-d8	50	75-125	103		102	105	105
romofluorobenzene	50	75-125	114	\top	113	111	112

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery





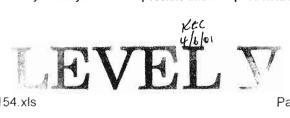


Reporting Unit: ug/L

DILUTION FACTOR 1	08/04/00	08/04/00
CLIENT SAMPLE I.D. B8SV01S01 CLSV38S03 EPA I.D. & DEPTH RV826 2' RV827 16' LAB SAMPLE I.D. M4-154-08 M4-154-09 M4-154-09 COMPOUND RL M4-154-08 M4-154-09 M4-154-09 M4-154-09 COMPOUND RL M4-154-08 M4-154-09 M4-154-09 M4-154-09 COMPOUND RL M4-154-08 M4-154-09 M4-154-09 M4-154-08 M4-154-09 COMPOUND RL M4-154-08 M4-154-08 M4-154-09 M4-154-08 M4-154-08 M4-154-09 M4-154-08 M5-108 M5-108	000804M4V223	000804M4V223
EPA I.D. & DEPTH RV826 2' RV827 16' LAB SAMPLE I.D. M4-154-08 M4-154-09 COMPOUND RL M4-154-09 M5	1	1
LAB SAMPLE I.D. M4-154-08 M4-154-09 COMPOUND RL M4-154-08 M4-154-09 MD CS CS M5-155 M4-154-09 M4-154-09 M5-155 CS M5-155 M4-154-09 M5-155 M4-154-09 M5-155 M5-155 M4-154-09 M5-155 M4-154-09 M5-155 M5-155 M4-154-09 M5-155 M4-154-09 M5-155 M5-155 M4-154-09 M5-155 M5-155 M4-154-09 M5-155 M5-155 M4-154-09 M5-155 M4-154-09 M5-155 M5-155 M4-155-09 M5-155 M4-155-09 M5-155 M5-155	CLSV46S03	CLSV46S01
COMPOUND RL	RV828 15'	RV829 5'
Dichlorodifluoromethane	M4-154-10	M4-154-11
Dichlorodifluoromethane	Rev Que	e Qual Co
Vinyl Chloride	NDus c	NDus c
Chloroethane	3.4	NDu
1,1-Dichloroethene	NDU	ND
Methylene Chloride 1.0 ND ND ND cis-1,2-Dichloroethene 1.0 ND ND ND 1,1-Dichloroethane 1.0 ND ND ND trans-1,2-Dichloroethene 1.0 ND ND ND Chloroform 1.0 ND ND ND 1,1,1-Trichloroethane 1.0 ND ND ND Carbon Tetrachloride 1.0 ND ND ND 1,2-Dichloroethane 1.0 ND ND ND 1,2-Dichloroethane 1.0 ND ND ND 1,2-Dichloroethane 1.0 ND ND ND Trichloroethane 1.0 ND ND ND Trichloroethane 1.0 ND ND ND 1,1,2-Trichloroethane 1.0 ND ND ND 1,1,1,2-Tetrachloroethane 1.0 ND ND ND 0-Xylene 1.0 ND ND ND	ND	ND
Cis-1,2-Dichloroethene	ND	ND
Cis-1,2-Dichloroethene	ND	ND
trans-1,2-Dichloroethene	ND	ND
Chloroform 1.0 ND	ND	ND
1,1,1-Trichloroethane	ND	ND
Carbon Tetrachloride 1.0 ND ND<	ND	ND
1,2-Dichloroethane	ND	ND
Benzene	ND	ND
Trichloroethene	ND	ND
Toluene	ND	ND
1,1,2-Trichloroethane 1.0 ND Tetrachloroethene 1.0 ND Tetrachloroethene 1.0 ND ND ND ND S Ethylbenzene 1.0 ND ND ND ND S 1,1,1,2-Tetrachloroethane 1.0 ND ND ND ND ND ND ND ND ND N	ND	ND
Tetrachloroethene 1.0 NDust c NDust c s Ethylbenzene 1.0 ND ND ND ND S 1,1,1,2-Tetrachloroethane 1.0 ND N	ND	ND
Ethylbenzene	NDU	NDU
Ethylbenzene	ND ut c	NDuJ c
m,p-Xylenes 2.0 ND ND ND ND ND ND V S 1,1,2,2-Trichloro-trifluoroethane 5.0 1.0 ND ND ND V ND V <td>NDU</td> <td>NDV</td>	NDU	NDV
o-Xylene 1.0 ND ND√√ √ 1,1,2,2-Tetrachloroethane 1.0 ND√ ND√√ ND√√ ND√√ ND√√ ND√√ SD√√ 3.7 NØ√ SD√√ 3.7 NØ√√ -,5 SD√√ NB√√ NB√√ -,5 NB√√ N	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND
1,1,2-Trichloro-trifluoroethane 5,0 10 3,1 MO J - 3,7 MO J - 5 SURROGATE SPK CONC ACP% CONC %REC %REC d-Methylene Chloride 50 75-125 88 67**	ND	ND
SURROGATE SPK CONC ACP% SPK CONC %REC %REC d-Methylene Chloride 50 75-125 88 67**	ND 🌡	ND∜
CONC 67** d-Methylene Chloride 50 75-125 88 67**	4.0ND J -	3.6 ND J -
	%REC	%REC
1 Chloroform 50 75 125 75 66**	86	76
2-011010101111	84	76
d-Benzene 50 75-125 92 84	96	89
Dibromofluoromethane 50 75-125 98 100	102	101
Toluene-d8 50 75-125 103 106	106	104
Bromofluorobenzene 50 75-125 113 113	113	112

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{**}Confirmation by re-analysis was not possible due to expired hold time; initial results were reported.



RL = Reporting Limit, MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

	DATE	ANALYZED	08/04/00	08/04/00	08/04/00	08/04/00
Α	ANALYTIC			000804M4V223	000804M4V223	000804M4V223
	DILUTIO	N FACTOR	1	1	1	1
C	LIENT S.	AMPLE I.D.	CLSV46S02	CLSV47S03	CLSV47S02	CLSV47S01
	EPA I.C	. & DEPTH	RV830 10'	RV831 15'	RV832 10'	RV833 5'
	LAB S	AMPLE I.D.	M4-154-12	M4-154-13	M4-154-14	M4-154-15
COMPOUND		RL	Red Un	in Rev Ri	ge ger on	in Rev Wi
Dichlorodifluoromethane		1.0	ND us c			NDUJ C
Vinyl Chloride		1.0	2.0	NDN	NDN	NDM
Chloroethane		1.0	NDU	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND./	ND ,	ND√	ND.
1,1,2-Trichloroethane		1.0	ND(Λ	NDW	NDL	NDW
Tetrachloroethene		1.0	NDU5 C	NDW C	NDuJ C	NDus c
Ethylbenzene		1.0	NDU	NDU	ND (A	NDW
1,1,1,2-Tetrachloroethane		1.0	ND 1	ND	ND	ND
n,p-Xylenes		2.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND↓	ND∜	ND V	NDV
1,1,2-Trichloro-trifluoroethane		5.010	3.9 NDJ -	3.9NO J -	3.8 ND J -	3,9 ND J -,5
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
-Methylene Chloride	50	75-125	100	87	90	131**
-Chloroform	50	75-125	97	87	106	123
-Benzene	50	75-125	118	103	78	151**
ibromofluoromethane	50	75-125	99	99	103	101
oluene-d8	50	75-125	102	103	102	105
romofluorobenzene	50	75-125	114	114	113	112

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

[&]quot;Confirmation by re-analysis was not possible due to expired hold time; initial results were reported.



RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable

550 South Wadsworth Blvd., Suite 500, Lakewood, CO 80226 303/935-6505, Fax 303/935-6575

DATA ASSESSMENT FORM

Project Title: Rocketdyne SSFL RFI

QC Level: V¹ SDG: 31

Matrix: Soil Vapor No. of Samples: 95

No. Renalyses/Dilutions: 0

<u>Date Reviewed</u>: April 24, 2001

<u>Reviewer</u>: K. Chapman

Reference: USEPA Contract Laboratory Program National Functional Guidelines For Organic Data Review, (Feb. 1994), and Interim Guidance For Active Soil Gas Investigation, State of California

Regional Water Quality Control Board (LA Region).

EPA Level V – Volatiles Assessment

Data Validation Findings

		Problems	Qualifications
1.	Sample Management	There were instances on the COC of uninitialed corrections to the information.	No qualifications were required as field logs were reviewed to verify the accuracy of the undocumented corrections. Field personnel reviewing the accuracy of the field logs initialed and dated the COCs.
4	Method Blanks	No problems were noted with the method blanks. Seven method blanks were analyzed with this SDG. No target compounds were detected in the method blanks.	No qualifications were required.
6	Surrogates	No surrogate deficiencies were noted.	No qualifications were required.

T300VO55 1 Revision 1

Project: Rocketdyne SDG: 31 Analysis: Soil Vapors

	Problems	Qualifications
7. <u>Calibration</u>	The calibration verification standard analyzed with samples RV931-RV949 exhibited %D outliers for methylene chloride, 1,2-dichloroethene, and 1,1,2,2-tetrachloroethane.	Samples RV931-RV949 were qualified as estimated, "UJ" for the noted compounds.
	The calibration verification standard analyzed with samples RV901-RV911 exhibited a %D outlier for 1,1,2,2-tetrachloroethane.	Samples RV901-RV911 were qualified as estimated, "UJ" for the noted compound.
	The calibration verification standard analyzed with samples RV912-RV930 exhibited %D outliers for carbon tetrachloride, 1,1,2-trichloroethane, and 1,1,2,2-tetrachloroethane.	Samples RV912-RV930 were qualified as estimated, "UJ" for the noted compounds.
	The calibration verification standard analyzed with samples RV950-RV957, and RV961-RV968 exhibited %D outliers for vinyl chloride and chloroethane.	Samples RV950-RV957, and RV961-RV968 were qualified as estimated, "UJ" for the noted compounds.
	The calibration verification standard analyzed with samples RV969, RV971-RV973, RV967, and RV974-RV982 exhibited a %D outlier for chloroethane.	Samples RV969, RV971-RV973, RV967, and RV974-RV982 were qualified as estimated, "UJ" for the noted compound.
10. Other	According to the laboratory, the reporting limit of 1.0 ppb on the Form Is for 1,1,2-trichloro-trifluoroethane is incorrect. This reporting limit should be 5.0 ppb. The reviewer hand-corrected the Form Is to reflect the correct reporting limit. As the laboratory MDL study does support a reporting limit of 1.0 ppb, detects between 1.0 ppb and 5.0 ppb were reported as estimated values.	Detects below 5.0 ppb reported for samples RV908, RV919, RV938, RV941, and RV942 were qualified as estimated "J."
	Samples RV986, RV987, RV989, RV990, RV991, and RV992 were reported from 5× dilutions.	The reporting limits for these samples were changed on the Form Is to reflect the dilutions. These detects were qualified as estimated, "J."
	Detects for trichloroethane in samples RV950, RV951, RV952, RV977, and RV980, 1,1,2-trichloro-trifluoroethane in samples RV951 and RV952, and 1,1,1-trichloroethane in samples RV955 and RV956 were reported at concentrations above the linear range of the calibration.	Communication, 3.

Project: Rocketdyne SDG: 31 Analysis: Soil Vapors

	Problems	Qualifications
Comments	None.	

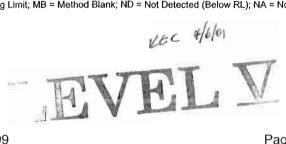
¹ A modified level V validation was performed, reviewing only the sample management, surrogate, blank, and calibration data. The blank and surrogate qualifications are based solely upon summary information, unless otherwise noted. The reported values on the summary forms are presumed to be correct and no verification of the values from the raw instrument output is performed.



Reporting Unit: ug/L

D	ATE A	NALYZED	12/13/00	12/13/00	12/13/00	12/13/00
	ANALYTICAL BATCH			001213M4V315	001213M4V315	001213M4V315
		FACTOR	001213M4V315 1	1	1	1
CLIE	NT SA	MPLE I.D.	NA	CLSV49/S03	CLSV49/S02	CLSV49/S01
E	PA I.D.	& DEPTH	NA	RV901 15'	RV902 10'	RV903 5'
L	AB SA	MPLE I.D.	Blank	M4-199-01	M4-199-02	M4-199-03
COMPOUND		RL		Ken Ging	e Gund Con	Rev Cana
Dichlorodifluoromethane		1.0	ND	NDU	NDU	NDU
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND.
o-Xylene		1.0	ND	NDL	NDU	NDM
1,1,2,2-Tetrachloroethane		1.0	NDuste	NDAJ C	ND _{M5} C	NDW C
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	ND4 \$	ND/A	NDU #
I I	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	88	90	92	84
d-Chloroform	25	75-125	83	88	87	78
d-Benzene	25	75-125	115	119	118	107
Dibromofluoromethane	50	75-125	94	94	95	96
Toluene-d8	50	75-125	97	95	97	97
Bromofluorobenzene	50	75-125	103	99	102	102

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/13/00	12/13/00	12/13/00	12/13/00
AN	ANALYTICAL BATCH			001213M4V315	001213M4V315	
DILUTION FAC			001213M4V315 1	1	1	001213M4V315
		MPLE I.D.	CLSV49/D01	CLSV49/S05	CLSV49/S04	1
		. & DEPTH	RV904 5'			CLSV49/F01
· · · · · · · · · · · · · · · · · · ·		MPLE I.D.		RV905 25'	RV906 20'	RV907
COMPOUND	LAD 3	RL RL	M4-199-04 Ren Kun	M4-199-05	M4-199-06	M4-199-07
Dichlorodifluoromethane		1.0	NDU Code	ND _U		But the
Vinyl Chloride		1.0	ND	ND	ND _N	ND ₄
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND			ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND ND	ND	ND ND
1,2-Dichloroethane		1.0	ND		ND	ND
Benzene		1.0	ND	ND ND	ND	ND
Trichloroethene		1.0	ND	ND ND	ND ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND ND	ND ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND ND		ND
m,p-Xylenes		1.0	ND /	ND://	ND.	ND ND
o-Xylene		1.0	NDG	ND A	ND ₄	ND.
1,1,2,2-Tetrachloroethane		1.0	ND w	ND C	ND wile	ND _M
1,1,2-Trichloro-trifluoroethane		5.01.0	ND IA	ND A	ND L	NDu \$
SURROGATE	SPK	ACP%	%REC	%REC	%REC	
JUNNOGATE	CONC	ACF /0	/OREC	70KEU	70KEU	%REC
d-Methylene Chloride	25	75-125	88	91	88	87
d-Chloroform	25	75-125	83	86	84	81
d-Benzene	25	75-125	113	118	114	109
Dibromofluoromethane	50	75-125	96	96	94	98
Toluene-d8	50	75-125	99	96	99	97
Bromofluorobenzene	50	75-125	104	103	102	104

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/13/00	12/13/00	12/13/00	12/13/00
AN		AL BATCH	001213M4V315	001213M4V315	001213M4V315	001213M4V315
		N FACTOR	1	1	1	1
CL	IENT SA	AMPLE I.D.	LFSV14/S01	LFSV14/S02	LFSV14/S03	LFSV18/S01
	EPA I.D	. & DEPTH	RV908 5'	RV909 10'	RV910 15'	RV911 5'
	LAB SA	MPLE I.D.	M4-199-08	M4-199-09	M4-199-10	M4-199-11
COMPOUND		RL	Such Confe	der ling	e aunt con	e Gran City
Dichlorodifluoromethane		1.0	ND(A	NDIA	NDU	ND (A
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND.	ND↓	ND /	ND
Benzene		1.0	NDIA	NDU	NDV	ND
Trichloroethene		1.0	1.9	16	38	ND
Toluene		1.0	NDIA	NDU	NDIA	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND√	ND∜	ND 1/	ND.
o-Xylene		1.0	NDIA	NDW	NDM	NDW
1,1,2,2-Tetrachloroethane		1.0	NDas c	ND45 C	ND(A) C	NDW C
1,1,2-Trichloro-trifluoroethane		501.0	1.15	6.3	14	NDU.
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride	25	75-125	87	104	98	93
d-Chloroform	25	75-125	82	92	93	87
d-Benzene	25	75-125	112	124	123	116
Dibromofluoromethane	50	75-125	96	94	97	98
Toluene-d8	50	75-125	97	96	97	96
Bromofluorobenzene	50	75-125	102	103	101	103

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery









Reporting Unit: ug/L

DATE ANALYZED			12/14/00	12/14/00	12/14/00	12/14/00
	ANALYTICAL BATCH			001214M4V316	001214M4V316	001214M4V316
DILUTION FA			1	11	1	1
CL	IENT SA	MPLE I.D.	NA	CLSV57/S01	CLSV57/S02	CLSV57/D02
	EPA I.D	. & DEPTH	NA	RV912 3'	RV913 7'	RV914 7'
	LAB SA	MPLE I.D.	Blank	M4-200-01	M4-200-02	M4-200-03
COMPOUND		RL		Ken Blue	Rev Wing	t due Car
Dichlorodifluoromethane		1.0	ND	NDU	NDIA	NDU
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND 🕡	ND	ND.
1,1,1-Trichloroethane		1.0	ND	NDW	NDW	NDU
Carbon Tetrachloride		1.0	ND	ND4J C	NDW C	ND us
1,2-Dichloroethane		1.0	ND	NDIA	NDA	NDu
Benzene		1.0	ND	ND.	ND√	ND ₹
Trichloroethene		1.0	ND	2.1	8.7	8.1
Toluene		1.0	ND	NDux &	NDW &	ND WX E
1,1,2-Trichloroethane		1.0	ND	ND (43 C	ND(A) C	ND 17 C
Tetrachloroethene		1.0	ND	NDV	ND W	ND\U
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND.	ND.	ND.
o-Xylene		1.0	ND	NDW	NDU	NDIA
1,1,2,2-Tetrachloroethane		1.0	ND	NDWC	ND _{to} c	ND45 C
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	ND w	ND4 #	NDu #
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride	25	75-125	106	99	107	108
d-Chloroform	25	75-125	105	101	108	107
d-Benzene	25	75-125	92	87	96	94
Dibromofluoromethane	50	75-125	94	84	94	95
Toluene-d8	50	75-125	97	98	96	98
Bromofluorobenzene	50	75-125	103	103	102	103

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/14/00	12/14/00	12/14/00	12/14/00
AN	ALYTICA	AL BATCH	001214M4V316	001214M4V316	001214M4V316	001214M4V316
C	ILUTION	FACTOR	1	1	1	1
CL	IENT SA	MPLE I.D.	CLSV58/S01	CLSV59/S01	CLSV59/S03	CLSV59/S02
	EPA I.D.	& DEPTH	RV915 1.5'	RV916 5'	RV917 15'	RV918 10'
	LAB SA	MPLE I.D.	M4-200-04	M4-200-05	M4-200-06	M4-200-07
COMPOUND		RL	Rev Ring	e Gunilloc	de Rev Blue	e ster Qu
Dichlorodifluoromethane		1.0	NDU	NDU	NDW	NDU
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND √	ND V	ND
Methylene Chloride		1.0	ND	NDU	NDM	ND(A
cis-1,2-Dichloroethene		1.0	ND	1.0	5.0	3.6
1,1-Dichloroethane		1.0	ND	NDM	NDU	NDU
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND.	ND	ND	ND√
1,1,1-Trichloroethane		1.0	NDU	NDW	NDW	NDU
Carbon Tetrachloride		1.0	NDLUT C	ND WT C	NDUT C	NDW C
1,2-Dichloroethane		1.0	NDU	NDU	NDU	NDu
Benzene		1.0	ND	ND .	ND 🖟	ND
Trichloroethene		1.0	ND	3.2	14	9.6
Toluene		1.0	ND V	NDU	ND(A	NDU
1,1,2-Trichloroethane		1.0	NDW C	ND LUT C	NDute	NDU5 C
Tetrachloroethene		1.0	NDU	NDU	NDu	NDU
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND V
o-Xylene		1.0	ND	NDL	NDA	NDU
1,1,2,2-Tetrachloroethane		1.0	NDUS C	NDusc	ND _{Lat} c	NDUJC
1,1,2-Trichloro-trifluoroethane		5.01.0	NDU	NDW	ND(A)	NDW
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	110	104	123	120
d-Chloroform	25	75-125	109	104	122	114
d-Benzene	25	75-125	97	93	108	102
Dibromofluoromethane	50	75-125	96	96	96	94
Toluene-d8	50	75-125	98	97	99	101
Bromofluorobenzene	50	75-125	104	106	105	104

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Market Virginia



Reporting Unit: ug/L

			12/14/00		r	
	DATE ANALYZED			12/14/00	12/14/00	12/14/00
l		AL BATCH	001214M4V316	001214M4V316	001214M4V316	001214M4V316
DILUTION FACTO			11	1	11	1
CL	IENT SA	MPLE I.D.	CLSV56/S01	CLSV61/S01	CLSV54/S01	CLSV54/S02
	EPA I.D	. & DEPTH	RV919 3'	RV920 5'	RV921 5'	RV922 11'
	LAB SA	MPLE I.D.	M4-200-08	M4-200-09	M4-200-10	M4-200-11
COMPOUND		RL	Ken Kupa	ken bull	Bur Co	Gues Co
Dichlorodifluoromethane		1.0	ND	NDU	NDU	NDM
Vinyl Chloride		1.0	ND	ND	ND	3.4
Chloroethane		1.0	ND	ND	ND	NDU
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND 🕡	ND V	ND 🕡
Methylene Chloride		1.0	ND	NDLA	NDN	NDW
cis-1,2-Dichloroethene		1.0	ND	1.6	6.1	2.0
1,1-Dichloroethane		1.0	ND	NDU	NDU	NDU
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND.	ND	ND	ND
1,1,1-Trichloroethane	-	1.0	NDW	NDIA	NDA	NDW
Carbon Tetrachloride		1.0	ND/J C	NDW c	NDUT C	ND41
1,2-Dichloroethane		1.0	NDU	ND ₁	NDM	NDU
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	12	ND 🕡	ND	ND
Toluene		1.0	NDIA	NDIA	NDIA	NDM
1,1,2-Trichloroethane		1.0	NDusc	NDWC	NDUTC	NDurc
Tetrachloroethene		1.0	NDL	NDW	NDM	NDW
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND 🕡	ND 🕡	ND 🗸
o-Xylene		1.0	NDiA	NDW	NDIA	ND()
1,1,2,2-Tetrachloroethane		1.0	NDuste	NDW	NDut C	NDw c
1,1,2-Trichloro-trifluoroethane		5.01.0	1.15	NDut	NDus	ND4 \$
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride		75-125	120	113	123	120
d-Chloroform	25	75-125	116	108	118	117
d-Benzene	25	75-125	105	96	104	104
Dibromofluoromethane	50	75-125	93	95	96	93
Toluene-d8	50	75-125	97	98	99	97
Bromofluorobenzene	50	75-125	103	105	104	104

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery









Reporting Unit: ug/L

	DATE A	NALYZED	12/14/00	12/14/00	12/14/00	12/14/00
	ANALYTICAL BATCH			001214M4V316	001214M4V316	001214M4V316
DILUTION FA			1	1	1	1
CL	ENT SA	MPLE I.D.	CLSV55/S01	CLSV53/S01	CLSV52/S01	CLSV38/S01
	EPA I.D	& DEPTH	RV923 5'	RV924 1.5'	RV925 4.5'	RV926 6'
	LAB SA	MPLE I.D.	M4-200-12	M4-200-13	M4-200-14	M4-200-15
COMPOUND		RL	Sugar Que	lev Kus	e Rev Chy	de du
Dichlorodifluoromethane		1.0	NDW	NDIA	NDIA	NDM
Vinyl Chloride		1.0	ND	ND	ND	ND]
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND↓	ND./	ND√	ND
1,1,1-Trichloroethane		1.0	NDU	NDIA	NDM	NDM
Carbon Tetrachloride		1.0	NDW C	NDUJ C	NDWC	NDW
1,2-Dichloroethane		1.0	NDW	NDU	NDW	NDM
Benzene		1.0	ND)	ND	ND	ND
Trichloroethene		1.0	ND U	2.0	ND	ND
Toluene		1.0	ND	NDM	NDIA	NDW
1,1,2-Trichloroethane		1.0	NDUSC	ND145 C	NDLJ C	NDUJE
Tetrachloroethene		1.0	NDU	NDW	NDU	NDM
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND \
m,p-Xylenes		1.0	ND	ND	ND∜	ND √
o-Xylene		1.0	NDM	NDIA	NDIA	NDM
1,1,2,2-Tetrachloroethane	-	1.0	ND45 C	NDus C	NDLA C.	NDAJC
1,1,2-Trichloro-trifluoroethane		5.01.0	NDu	NDW A	ND _I	NDW \$
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	113	102	81	87
d-Chloroform	25	75-125	115	105	81	86
d-Benzene	25	75-125	104	96	81	75
Dibromofluoromethane	50	75-125	95	94	100	94
Toluene-d8	50	75-125	99	97	99	101
Bromofluorobenzene	50	75-125	105	105	104	106

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



OGDENIVA



Reporting Unit: ug/L

	DATE A	NALYZED	12/14/00	12/14/00	12/14/00	12/14/00
AN	ANALYTICAL BATCH			001214M4V316	001214M4V316	001214M4V316
	DILUTION FACT		001214M4V316 1	1	1	1
		MPLE I.D.	CLSV39/S03	CLSV51/S01	CLSV48/S02	CLSV48/S01
		. & DEPTH	RV927 16'	RV928 1.5'	RV929 8'	RV930 3'
	LAB SA	MPLE I.D.	M4-200-16	M4-200-17	M4-200-18	M4-200-19
COMPOUND		RL	Boral Con		e Guel Con	
Dichlorodifluoromethane		1.0	NDIA	NDU	ND(A	NDU
Vinyl Chloride		1.0	ND	ND	ND 1	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND.//	ND∜	ND	ND
1,1,1-Trichloroethane		1.0	NDIA	NDM	NDIA	NDU
Carbon Tetrachloride		1.0	NDUTE	NDW C	NDW <	NDut c
1,2-Dichloroethane		1.0	NDU	NDU	NDM	NDM
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND 🗸	ND₩
Toluene		1.0	NDM	NDIA	NDG	NDIA
1,1,2-Trichloroethane		1.0	NDust c	NDWC	NDUT C	NDUJC
Tetrachloroethene		1.0	ND	NDM	NDW	NDU
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND√	ND
o-Xylene		1.0	NDM	NDU	NDA	ND (A
1,1,2,2-Tetrachloroethane		1.0	NDW C	NDur c	NDus c	NDusic
1,1,2-Trichloro-trifluoroethane		5.01.0	NDn 5	NDu #	NDU	NDU \$
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	110	97	90	102
d-Chloroform	25	75-125	109	94	89	102
d-Benzene	25	75-125	96	82	77	90
Dibromofluoromethane	50	75-125	96	97	97	96
Toluene-d8	50	75-125	99	99	98	97
Bromofluorobenzene	50	75-125	106	106	105	104

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



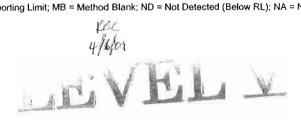
SPENIAL FALLER.



Reporting Unit: ug/L

	DATE A	NALYZED	12/15/00	12/15/00	12/15/00	12/15/00
AN	ANALYTICAL BATCH			001215M4V317	001215M4V317	001215M4V317
	DILUTION FA			1	1	1
CL	IENT SA	MPLE I.D.	NA	CLSV48/F01	CLSV48/S03	CLSV48/D03
	EPA I.D.	& DEPTH	NA	RV931 0'	RV932 13'	RV933 13'
	LAB SA	MPLE I.D.	Blank	M4-201-01	M4-201-02	M4-201-03
COMPOUND		RL		Red Rus	Ker Ob	e Ber Que
Dichlorodifluoromethane		1.0	ND	NDM	NDU	ND(A
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND 🕡	ND	ND 🕢
1,1-Dichloroethene		1.0	ND	NDM	NDW	NDU
Methylene Chloride		1.0	ND	NDUT C	NDATE	NDW C
cis-1,2-Dichloroethene		1.0	ND	NDU	NDM	NDU
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND√
Carbon Tetrachloride		1.0	ND	NDIA	ND(A	ND(A
1,2-Dichloroethane		1.0	ND	NDUT C	NDGT C	NDust C
Benzene		1.0	ND	ND(A	NDU	NDIA
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND_	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND_	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND 🕡	ND√	ND.
o-Xylene		1.0	ND	NDIA	NDU	NDU
1,1,2,2-Tetrachloroethane		1.0	ND	NDM C	NDia C	ND41 C
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	NDL	ND6-14"	NDA 5
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	97	98	104	110
d-Chloroform	25	75-125	116	84	91	95
d-Benzene	25	75-125	110	125	116	122
Dibromofluoromethane	50	75-125	95	95	94	95
Toluene-d8	50	75-125	99	99	99	99
Bromofluorobenzene	50	75-125	108	107	110	108

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery





Reporting Unit: ug/L

	DATE A	NALYZED	12/15/00	12/15/00	12/15/00	12/15/00
	ANALYTICAL BATCH			001215M4V317	001215M4V317	001215M4V317
DILUTION			001215M4V317 1	1	1	1
[MPLE I.D.	CLSV48/S04	CLSV50/S01	CLSV50/S02	CLSV50/S03
		& DEPTH	RV934 18'	RV935 5'	RV936 10'	RV937 16'
	LAB SA	MPLE I.D.	M4-201-04	M4-201-05	M4-201-06	M4-201-07
COMPOUND		RL	Ren Was	Rev Que	A Rev Chy E Gual Zeo	y her they
Dichlorodifluoromethane		1.0	NDIA	NDU	NDU	ND/A
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND _V	ND 🕡	ND√	ND
1,1-Dichloroethene		1.0	NDL	NDM	ND()	NDM
Methylene Chloride		1.0	NDUJC	NDuje	NDUT C	NDus
cis-1,2-Dichloroethene		1.0	NDM	NDL	NDM	NDU
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND 🎶	NDW	ND 🗸	ND
Carbon Tetrachloride		1.0	NDW	NDV	NDIA	NDW
1,2-Dichloroethane		1.0	NDUTE	NDW	NDu1 <	NDW C
Benzene		1.0	ND	NDIA	NDM	NDIA
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND 🎶	ND 🗸	ND
o-Xylene		1.0	NDM	ND/A	NDIA	NDIA
1,1,2,2-Tetrachloroethane		1.0	NDW	NDEET C.	ND	NDM C
1,1,2-Trichloro-trifluoroethane		5.01.0	NDULT	NDM	NDL \$	NDAL #
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	103	105	94	114
d-Chloroform	25	75-125	90	94	82	100
d-Benzene	25	75-125	114	120	118	121
Dibromofluoromethane	50	75-125	96	95	94	94
Toluene-d8	50	75-125	100	99	100	101
Bromofluorobenzene	50	75-125	110	106	107	107

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/15/00	12/15/00	12/15/00	12/15/00
AN	ALYTICA	AL BATCH	001215M4V317	001215M4V317	001215M4V317	001215M4V317
T T	DILUTION		1	1	1	1
CL	IENT SA	MPLE I.D.	LFSV16/S02	LFSV16/S03	LFSV16/S04	LFSV16/S01
	EPA I.D.	& DEPTH	RV938 10'	RV939 15'	RV940 20'	RV941 5'
	LAB SA	MPLE I.D.	M4-201-08	M4-201-09	M4-201-10	M4-201-11
COMPOUND		RL	Rav Edma General Code	aluar Za	e shall co	a fa thus
Dichlorodifluoromethane		1.0	NDU	ND /A	NDW	NDU
Vinyl Chloride		1.0	ND (ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND/A	NDW	ND
1,1-Dichloroethene		1.0	NDIA	1.2	1.8	NDU
Methylene Chloride		1.0	ND45 C	NDus C	NDUT 6	ND45 c
cis-1,2-Dichloroethene		1.0	2.1	4.9	7.8	NDL
1,1-Dichloroethane		1.0	NDu.	NDU	ND	ND)
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND les c	ND VIC	ND W	ND va <
Benzene		1.0	NDU	NDIA	NDLA	ND _{[A}
Trichloroethene		1.0	170	370*5	2705	45
Toluene		1.0	NDU	NDM	NDM	NDU
1,1,2-Trichloroethane		1.0	NDUTE	NDW/ 1	NDut 4	NDAT &
Tetrachloroethene		1.0	NDLA	ND ta	NDU	NDU
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND 🕡	ND 🗸	ND	ND
o-Xylene		1.0	ND	NDW	NDIA	NDIA
1,1,2,2-Tetrachloroethane		1.0	ND LATE	NDur C	NDMIC	NDey 6
1,1,2-Trichloro-trifluoroethane		5.01.0	4.0 J	7.9	11	1.2 🎵
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	91	86	83	82
d-Chloroform	25	75-125	82	77	99	99
d-Benzene	25	75-125	120	111	91	90
Dibromofluoromethane	50	75-125	95	95	97	98
Toluene-d8	50	75-125	99	99	98	99
Bromofluorobenzene	50	75-125	109	108	107	109

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*}This concentration is an estimated value; see Case Narrative.





RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

	DATE A	NALYZED	12/15/00	12/15/00	12/15/00	12/15/00
AN	ALYTIC	AL BATCH	001215M4V317	001215M4V317	001215M4V317	001215M4V317
	ILUTIO	N FACTOR	1	1	1	1
CI	IENT SA	MPLE I.D.	LFSV15/S02	LFSV15/S03	LFSV15/S01	LFSV06/S03
	EPA I.D	. & DEPTH	RV942 8'	RV943 13'	RV944 3'	RV945 15'
	LAB SA	MPLE I.D.	M4-201-12	M4-201-13	M4-201-14	M4-201-15
COMPOUND		RL	Bus line	E was an	e chai	al deal Con
Dichlorodifluoromethane		1.0	NDG	NDU	NDω	NDIA
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	NDV	ND
1,1-Dichloroethene		1.0	NDU	NDIA	ND/A	NDM
Methylene Chloride		1.0	NDUJ C	NDU5 C	NDUT &	NDus
cis-1,2-Dichloroethene		1.0	NDA	2.2	NDa	NDU
1,1-Dichloroethane		1.0	ND	ND _{(A}	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND)	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND J	ND J	ND V	ND //
Carbon Tetrachloride		1.0	NDW	NDU	NDU	ND.
1,2-Dichloroethane		1.0	NDW C	NDu 🕻	NDu =	NDus 2
Benzene		1.0	NDU	NDW	NDU	NDU
Trichloroethene		1.0	52	220	2.5	1.6
Toluene		1.0	ND/A	NDM	NDU	NDM
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND //	ND 🖖	ND 🖟	ND
o-Xylene		1.0	ND W	NDM	NDIA	NDU
1,1,2,2-Tetrachloroethane		1.0	NDut C	NDuo 6	NDut	ND UT C
1,1,2-Trichloro-trifluoroethane		5,01.0	2.9 🕕	11	NDU \$	8.4
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	86	86	82	87
d-Chloroform	25	75-125	77	78	75	78
d-Benzene	25	75-125	112	115	106	110
Dibromofluoromethane	50	75-125	96	96	97	103
Toluene-d8	50	75-125	98	98	98	99
Bromofluorobenzene	50	75-125	106	108	106	105

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery









Reporting Unit: ug/L

	DATE A	NALYZED	12/15/00	12/15/00	12/15/00	12/15/00
AN		AL BATCH	001215M4V317	001215M4V317	001215M4V317	001215M4V317
	FACTOR	1	1	1	1	
		MPLE I.D.	LFSV06/S01	CLSV42/S01	ILSV53/S01	EVSV13/S01
		& DEPTH	RV946 5'	RV947 6'	RV948 5'	RV949 5'
		MPLE I.D.	M4-201-16	M4-201-17	M4-201-18	M4-201-19
COMPOUND		RL	and Con			
Dichlorodifluoromethane		1.0	NDA	ND/A	NDU	NDIA
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND 🕡	ND	NDU	ND.V
1,1-Dichloroethene		1.0	NDLA	NDLA	6.6	NDW
Methylene Chloride		1.0	NDWC	NDUSC	NDus 2	NDus
cis-1,2-Dichloroethene		1.0	NDA	230.	NDU	NDW
1,1-Dichloroethane		1.0	ND	NDU	ND	ND
trans-1,2-Dichloroethene		1.0	ND	2.4	ND	ND
Chloroform		1.0	ND	ND	NDIA	ND
1,1,1-Trichloroethane		1.0	ND	ND]	2.7	ND
Carbon Tetrachloride		1.0	NDM	ND 💟	NDIA	NDh
1,2-Dichloroethane		1.0	NDWC	NDUS C	NDu5 C	NDut (
Benzene		1.0	ND/A	NDV	NDM	NDu
Trichloroethene		1.0	ND	170	18	40
Toluene		1.0	ND	NDix	ND	NDIA
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND /	ND
o-Xylene		1.0	NDIA	NDM	NDU	NDu
1,1,2,2-Tetrachloroethane		1.0	ND wot a	ND45 C	NDLG C	ND45 C
1,1,2-Trichloro-trifluoroethane		5.01.0	NDM N	NDU	13	NDU \$
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	87	86	85	86
d-Chloroform	25	75-125	80	79	77	78
d-Benzene	25	75-125	115	111	111	110
Dibromofluoromethane	50	75-125	97	95	97	96
Toluene-d8	50	75-125	99	98	99	99
Bromofluorobenzene	50	75-125	107	103	105	106

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery









Reporting Unit: ug/L

	NALYZED	12/18/00	12/18/00	12/18/00	12/18/00	
ANALYTICAL BATCH			001218M4V319	001218M4V319	001218M4V319	001218M4V319
DILUTION FACT			1	1	1	1
CI	IENT SA	MPLE I.D.	NA	ILSV72/S01	ILSV72/S02	ILSV72/S03
	EPA I.D	. & DEPTH	NA	RV950 6'	RV951 10'	RV952 15'
	LAB SA	MPLE I.D.	Blank	M4-202-01	M4-202-02	M4-202-03
COMPOUND		RL		Sant Con	les con	
Dichlorodifluoromethane		1.0	ND	NDU	NDu	ND4
Vinyl Chloride		1.0	ND	NDUT C	NDUTE	NDurc
Chloroethane		1.0	ND	ND	ND J J	ND
Trichlorofluoromethane		1.0	ND	NDIA	NDU	NDU
1,1-Dichloroethene		1.0	ND	97	120	150
Methylene Chloride		1.0	ND	NDM	NDM	NDM
cis-1,2-Dichloroethene		1.0	ND	NDI	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	NDV	ND.//
Chloroform		1.0	ND	NDIA	NDU	NDIA
1,1,1-Trichloroethane		1.0	ND	14	16	20
Carbon Tetrachloride		1.0	ND	NDU	NDU	NDM
1,2-Dichloroethane		1.0	ND	NDI	ND	ND
Benzene		1.0	ND	ND√	ND	ND
Trichloroethene		1.0	ND	280 🕽 🤘	7 330*1 粉0	410*J
Toluene		1.0	ND	NDU	NDIA	NDM
1,1,2-Trichloroethane		1.0	ND	ND	ND	NDA
Tetrachloroethene		1.0	ND	ND	ND	1.0
Ethylbenzene		1.0	ND	ND	ND	NDU
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND ₩	ND V
1,1,2,2-Tetrachloroethane		1.0	ND	NDIA	NDIA	NDIA
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	170	2200 🕬	310*J *
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride	25	75-125	119	108	118	115
d-Chloroform	25	75-125	121	109	116	118
d-Benzene	25	75-125	121	111	116	119
Dibromofluoromethane	50	75-125	96	95	97	96
Toluene-d8	50	75-125	101	103	102	100
Bromofluorobenzene	50	75-125	103	100	103	100

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*}This concentration is an estimated value; see Case Narrative.



RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

	DATE A	NALYZED	12/18/00	12/18/00	12/18/00	12/18/00
AN	ANALYTICAL BATCH			001218M4V319	001218M4V319	001218M4V319
DILUTION		FACTOR	1	1	1	1
CL	IENT SA	MPLE I.D.	ILSV71/S01	ILSV71/D01	ILSV70/S01	ILSV70/S02
	EPA I.D.	& DEPTH	RV953 5'	RV954 5'	RV955 5'	RV956 9'
	LAB SA	MPLE I.D.	M4-202-04	M4-202-05	M4-202-06	M4-202-07
COMPOUND		RL	Ban Who	el Rev Gay	e Gual Ga	E Duel Cod
Dichlorodifluoromethane		1.0	NDU	NDU	NDU	NDU
Vinyl Chloride		1.0	NDWG	NDus 6	NDUT Z	NDUTE
Chloroethane		1.0	ND U	ND	ND .	ND .
Trichlorofluoromethane		1.0	NDLA	NDU	NDM	NDU
1,1-Dichloroethene		1.0	ND	ND	100	97
Methylene Chloride		1.0	ND	ND	NDU	NDU
cis-1,2-Dichloroethene		1.0	ND	ND	NDU	NDU
1,1-Dichloroethane		1.0	ND	ND	1.7	1.8
trans-1,2-Dichloroethene		1.0	ND	ND	NDU	NDU
Chloroform		1.0	ND	ND	NDU	NDIA
1,1,1-Trichloroethane		1.0	ND	ND	700*1	730*.
Carbon Tetrachloride		1.0	ND	ND	NDM	NDIA
1,2-Dichloroethane		1.0	ND	ND	ND .	ND]
Benzene		1.0	NDA	ND	NDW	ND
Trichloroethene		1.0	2.5	ND	180	200
Toluene		1.0	NDIA	ND	NDM	NDW
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND ,	ND
1,1,2,2-Tetrachloroethane		1.0	ND /	ND ^{\3/}	ND	NDIA
1,1,2-Trichloro-trifluoroethane		S11.0	ND(A)	ND(\str	100	110
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	100	116	97	90
d-Chloroform	25	75-125	100	115	98	91
d-Benzene	25	75-125	103	115	97	93
Dibromofluoromethane	50	75-125	96	96	96	96
Toluene-d8	50	75-125	101	101	103	100
Bromofluorobenzene	50	75-125	102	103	103	104

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*}This concentration is an estimated value; see Case Narrative.



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RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

			12/18/00			
	DATE ANALYZED			12/18/00	12/18/00	12/18/00
	ANALYTICAL BA		001218M4V319	001218M4V319	001218M4V319	001218M4V319
DILUTION			11	1	1	11
		MPLE I.D.	ILSV70/F01	LFSV17/S03	LFSV17/S04	LFSV17/S01
		. & DEPTH	RV957	RV961 13'	RV962 18'	RV963 3'
	LAB SA	MPLE I.D.	M4-202-08	M4-202-09	M4-202-10	M4-202-11
COMPOUND		RL	Rev Rus	el chai Eur		e Guni Co
Dichlorodifluoromethane		1.0	NDU	NDu	NDu	NDa
Vinyl Chloride		1.0	NDWIL	NDUTC	NDUJZ	NDUTC
Chloroethane		1.0	ND	ND1 1	ND V	ND &
Trichlorofluoromethane		1.0	NDIA	NDM	ND (A	NDV
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND₩
cis-1,2-Dichloroethene		1.0	ND	ND	ND	2.6
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND :/	ND /	ND \/
Benzene		1.0	ND	NDU	ND	ND(A
Trichloroethene		1.0	ND	9.2	7.4	3.6
Toluene		1.0	ND	NDU	NDM	NDIA
1,1,2-Trichloroethane		1.0	ND	ND:	ND	ND [
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND _v /	ND.	ND
1,1,2-Trichloro-trifluoroethane		5.0 1.0	NDULS	ND	NDW 3	NDW
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	85	84	102	96
d-Chloroform	25	75-125	114	90	104	99
d-Benzene	25	75-125	115	90	104	102
Dibromofluoromethane	50	75-125	98	98	99	97
Toluene-d8	50	75-125	101	100	102	102
Bromofluorobenzene	50	75-125	102	99	100	100

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/18/00	12/18/00	12/18/00	12/18/00
AN	ANALYTICAL BATCH			001218M4V319	001218M4V319	001218M4V319
	DILUTION FACT			1	1	1
CL	CLIENT SA		LFSV17/S02	LFSV19/S01	LFSV20/S01	LFSV21/S01
	EPA I.D	. & DEPTH	RV964 8'	RV965 5.5'	RV966 5'	RV968 1.5'
	LAB SA	MPLE I.D.	M4-202-12	M4-202-13	M4-202-14	M4-202-16
COMPOUND	,	RL	Ser Qua	Ben Con	al Ben Guy	ll Box Cin
Dichlorodifluoromethane		1.0	ND _{(A}	NDU	NDW	NDu
Vinyl Chloride		1.0	NDUT :	NDUT C	ND(w) C	NDW C
Chloroethane		1.0	ND	ND L	ND J	NDI
Trichlorofluoromethane		1.0	NDU	NDM	NDU	NDIA
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND /	ND√	ND./	ND.//
Benzene		1.0	NDIA	NDM	NDM	NDIA
Trichloroethene		1.0	1.9	44	1.1	1.8
Toluene		1.0	NDU	NDIA	NDIA	ND()
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND.	ND√	ND.	ND√
1,1,2-Trichloro-trifluoroethane		501.0	NDU	ND1/	NDU \$	NDV 🕏
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	100	92	98	96
d-Chloroform	25	75-125	102	92	99	96
d-Benzene	25	75-125	106	93	102	98
Dibromofluoromethane	50	75-125	98	98	97	96
Toluene-d8	50	75-125	102	103	102	104
Bromofluorobenzene	50	75-125	101	100	100	101

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery





Reporting Unit: ug/L

	DATE A	NALYZED	12/19/00	12/19/00	12/19/00	12/19/00
AN	ANALYTICAL BATCH			001219M4V320	001219M4V320	001219M4V320
DILUTION FACTOR			1	1	1	1
CL	IENT SA	AMPLE I.D.	NA	MCSV01/S02	SRSV02/S04	BUSV72/S02
	EPA I.D	. & DEPTH	NA	RV969 10'	RV971 22'	RV972 11'
	LAB SA	MPLE I.D.	Blank	M4-203-01	M4-203-02	M4-203-03
COMPOUND		RL		Rev Out	Ger Que	c der Qu
Dichlorodifluoromethane		1.0	ND	NDIA	NDU	NDu
Vinyl Chloride		1.0	ND	ND 6	NDU	NDM
Chloroethane		1.0	ND	NDUJ C	NDUTE	NDUJE
Trichlorofluoromethane		1.0	ND	NDW	NDU	NDU
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND 🎶	ND	ND
Benzene		1.0	ND	NDA	ND	ND
Trichloroethene		1.0	ND	1.0	ND	ND
Toluene		1.0	ND	ND _A	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND \	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND _	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND 🎷	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND	NDU	ND	ND /
1,1,2-Trichloro-trifluoroethane		5.010	ND	NDIA	NDIA	ND(A 🕏
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	99	109	100	107
d-Chloroform	25	75-125	97	105	98	102
d-Benzene	25	75-125	97	109	99	104
Dibromofluoromethane	50	75-125	97	95	100	97
Toluene-d8	50	75-125	104	101	101	101
Bromofluorobenzene	50	75-125	101	101	101	102

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery





Reporting Unit: ug/L

	DATE A	NALYZED	12/19/00	12/19/00	12/19/00	12/19/00
AN		AL BATCH	001219M4V320	001219M4V320	001219M4V320	001219M4V320
		N FACTOR	1	1	1	1
CL	IENT SA	MPLE I.D.	BUSV02/D02	LFSV20S02	LFSV07S04	CTSV11/S02
	EPA I.D.	& DEPTH	RV973 11'	RV967 10'	RV974 22'	RV975 6.5'
	LAB SA	MPLE I.D.	M4-203-04	M4-203-05	M4-203-06	M4-203-07
COMPOUND		RL	Quil Co	fer so	al Roy Organ	e Great Cod
Dichlorodifluoromethane		1.0	NDU	ND4	NDIA	NDW
Vinyl Chloride		1.0	NDa	ND	NDW	ND
Chloroethane		1.0	ND100	ND/OC	ND C	NDUJE
Trichlorofluoromethane		1.0	NDW	ND	ND/	NDy
1,1-Dichloroethene		1.0	ND	ND	ND	18
Methylene Chloride		1.0	ND	ND	ND	ND(A
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND ~	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	NDV
1,1,1-Trichloroethane		1.0	ND	ND	ND	17
Carbon Tetrachloride		1.0	ND	ND ,	ND_/	NDM
1,2-Dichloroethane		1.0	ND	ND 🗸	ND	ND
Benzene		1.0	ND(A	NDI	NDIA	ND
Trichloroethene		1.0	1.9	1.8	1.7	42
Toluene		1.0	NDM	NDM	ND 1	NDIA
1,1,2-Trichloroethane		1.0	ND	ND	ND)	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND /	ND./	ND
1,1,2,2-Tetrachloroethane		1.0	ND 🐠	ND V	ND	ND 🧳
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	NDW	6.3	NDV 👍
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	100	75	95	103
d-Chloroform	25	75-125	92	76	94	100
d-Benzene	25	75-125	93	75	94	102
Dibromofluoromethane	50	75-125	98	100	97	97
Toluene-d8	50	75-125	102	103	102	102
Bromofluorobenzene	50	75-125	102	103	103	101

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE A	NALYZED	12/19/00	12/19/00	12/19/00	12/19/00
AN	ANALYTICAL BATCH			001219M4V320	001219M4V320	001219M4V320
D	DILUTION FACTOR			1	1	1
CL	CLIENT SAMPLE			CTSV9/S01	CTSV12/S01	CTSV12/S02
	EPA I.D.	& DEPTH	RV976 2.5'	RV977 3'	RV978 3'	RV979 7'
	LAB SA	MPLE I.D.	M4-203-08	M4-203-09	M4-203-10	M4-203-11
COMPOUND		RL	Ray lund	april Car	e Quai 200	Sual Con
Dichlorodifluoromethane		1.0	ND(A	NDU	NDU	NDM
Vinyl Chloride		1.0	NDa	NDA	ND	NDN
Chloroethane		1.0	NDUS C	ND45 C	NDh5 C	NDusta
Trichlorofluoromethane		1.0	NDU	NDU	NDG	NDU
1,1-Dichloroethene		1.0	15	6.3	3.1	3.4
Methylene Chloride		1.0	NDU	NDG	NDU	NDU
cis-1,2-Dichloroethene		1.0	ND	3.5	ND]	ND)
1,1-Dichloroethane		1.0	ND	5.6	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND(A	ND./	ND
Chloroform		1.0	ND(A	NDW	NDIA	ND.
1,1,1-Trichloroethane		1.0	13	220	5.2	5.6
Carbon Tetrachloride		1.0	NDU	ND	NDL	ND4
1,2-Dichloroethane		1.0	ND)	NDU	ND	ND
Benzene		1.0	ND _* /	NDW	ND.	ND ₁ /
Trichloroethene		1.0	32	340* J X10	19	20
Toluene		1.0	NDM	NDIA	NDU	NDM
1,1,2-Trichloroethane		1.0	ND	ND \	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND 1	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND 3	ND	ND
o-Xylene		1.0	ND	ND 1	ND /	ND
1,1,2,2-Tetrachloroethane		1.0	ND∜	ND 🖔	ND∜	ND 🎶
1,1,2-Trichloro-trifluoroethane		5,01.0	NDN \$	ND	ND A	ND _A \$
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	109	106	100	103
d-Chloroform	25	75-125	105	106	97	101
d-Benzene	25	75-125	105	105	98	101
Dibromofluoromethane	50	75-125	99	97	96	97
Toluene-d8	50	75-125	102	100	102	102
Bromofluorobenzene	50	75-125	102	102	101	101

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*}This concentration is an estimated value; see Case Narrative.



RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

	DATE A	NALYZED	12/19/00	12/19/00	12/19/00	
		AL BATCH	001219M4V320	001219M4V320	001219M4V320	
	DILUTION FACTOR				1	
	MPLE I.D.	CTSV10/S01	CTSV13/S01	CTSV14/S01		
		& DEPTH	RV980 4'	RV981 3.5'	RV982 1.5'	
	LAB SA	MPLE I.D.	M4-203-12	M4-203-13	M4-203-14	
COMPOUND		RL	Bay En	Jen Que	Gen Que	0
Dichlorodifluoromethane		1.0	NDU	NDU	NDA	
Vinyl Chloride		1.0	ND	ND	ND.	
Chloroethane		1.0	NDUS C	NDUT C	ND C	
Trichlorofluoromethane	•	1.0	ND(A	ND (NDIA	
1,1-Dichloroethene		1.0	5.4	ND	ND	
Methylene Chloride		1.0	NDW	ND	ND	
cis-1,2-Dichloroethene		1.0	3.1	ND	ND	
1,1-Dichloroethane		1.0	3.3	ND	ND	
trans-1,2-Dichloroethene		1.0	NDIA	ND	ND	
Chloroform		1.0	ND	ND	ND	
1,1,1-Trichloroethane		1.0	150	ND	ND `	
Carbon Tetrachloride		1.0	NDU	ND	ND	
1,2-Dichloroethane		1.0	ND)	ND∜	ND	
Benzene		1.0	ND	NDU	ND	
Trichloroethene		1.0	390*3 410	12	ND	
Toluene		1.0	NDU	ND(A	ND	
1,1,2-Trichloroethane		1.0	ND	ND	ND	
Tetrachloroethene		1.0	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	
m,p-Xylenes		1.0	ND	ND	ND	
o-Xylene		1.0	ND 🎉	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	NDM	ND√	ND //	
1,1,2-Trichloro-trifluoroethane		5.01.0	ND(A L\$	NDA	NDU	
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	
d-Methylene Chloride	25	75-125	102	99	97	
d-Chloroform	25	75-125	101	97	94	
d-Benzene	25	75-125	105	97	94	
Dibromofluoromethane	50	75-125	97	99	96	
Toluene-d8	50	75-125	103	104	102	
Bromofluorobenzene	50	75-125	100	102	101	

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

^{*}This concentration is an estimated value; see Case Narrative.



RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable



Reporting Unit: ug/L

DA	DATE ANALYZED			12/20/00	12/20/00	
ANALY	TICA	L BATCH	001219M4V322	001219M4V322	001219M4V322	!
DILU	TION	FACTOR	1	1	1	
CLIEN	T SA	MPLE I.D.	NA	ILSV07S01	ILSV07S03	
EP/	A I.D.	& DEPTH	NA	RV983 5'	RV984 14.5'	
LA	B SA	MPLE I.D.	Blank	M4-204-01	M4-204-02	
COMPOUND		RL.		Red &	wal few count	rie l
Dichlorodifluoromethane		1.0	ND	NDU	NDU	
Vinyl Chloride		1.0	ND	ND	ND	
Chloroethane	-	1.0	ND	ND	ND	
Trichlorofluoromethane		1.0	ND	ND	ND	
1,1-Dichloroethene		1.0	ND	ND	ND	
Methylene Chloride		1.0	ND	ND	ND	
cis-1,2-Dichloroethene		1.0	ND	ND	ND	
1,1-Dichloroethane		1.0	ND	ND	ND	
trans-1,2-Dichloroethene		1.0	ND	ND	ND	
Chloroform		1.0	ND	ND	ND	
1,1,1-Trichloroethane		1.0	ND	ND	ND	
Carbon Tetrachloride		1.0	ND	ND	ND	
1,2-Dichloroethane		1.0	ND	ND	ND	
Benzene		1.0	ND	ND	ND	
Trichloroethene		1.0	ND	ND	ND	
Toluene		1.0	ND	ND	ND	
1,1,2-Trichloroethane		1.0	ND	ND	ND	
Tetrachloroethene		1.0	ND	ND	ND	
Ethylbenzene		1.0	ND	ND	ND	
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	
m,p-Xylenes		1.0	ND	ND	ND	
o-Xylene		1.0	ND	ND	ND	
1,1,2,2-Tetrachloroethane		1.0	ND	ND .	ND //	,
1,1,2-Trichloro-trifluoroethane		5.01.0	ND	NDU		
l I	PK ONC	ACP%	%REC	%REC	%REC	
d-Methylene Chloride	25	75-125	103	99	110	
	25	75-125	95	88	97	
d-Benzene 2	25	75-125	102	94	105	
Dibromofluoromethane 5	50	75-125	94	95	96	
Toluene-d8	50	75-125	102	101	102	
Bromofluorobenzene	50	75-125	101	102	103	

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent, %REC = % Recovery

Rt = Reporting Limit; MB = Method Blank; ND = Not Detected (Below Rt.), NA = Not Applicable

4/6/01

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Reporting Unit: ug/L

	DATE A	NALYZED	12/21/00	12/21/00	12/21/00	12/21/00
AN	ALYTIC	AL BATCH	001221M4V325	001221M4V325	001221M4V325	001221M4V325
DILUTION		FACTOR	1	5	5	1
CL	CLIENT SA			ILSV70S01	ILSV70S02	ILSV71S01
	EPA I.D.	& DEPTH	NA	RV986 5'	RV987 9'	RV988 5'
	LAB SA	MPLE I.D.	Blank	M4-205-01	M4-205-02	M4-205-03
COMPOUND		RL		R.L. Bed Gun	R.L. Ban Ching	l slew Cons
Dichlorodifluoromethane		1.0	ND	5.0 NDa	S.O NDU	NDIA
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND.	ND.	ND
Trichlorofluoromethane		1.0	ND	V ND⋈	NDM	ND
1,1-Dichloroethene		1.0	ND	90	120	ND
Methylene Chloride		1.0	ND	5.0 ND4	NDW	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	V ND(A	NDA	ND
1,1,1-Trichloroethane		1.0	ND	850	740	ND
Carbon Tetrachloride		1.0	ND	5.0 ND4	NDU	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND
Benzene		1.0	ND	₩ NDL	ND	NDIA
Trichloroethene		1.0	ND	210	200	1.4
Toluene		1.0	ND	S.O NDIA	NDIA	NDN
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND I
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND minutes	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND 🗸	U ND√	ND
1,1,2,2-Tetrachloroethane		1.0	ND	ND	S. NDW	ND /
1,1,2-Trichloro-trifluoroethane		5.2 1.0	ND	24/25 96	25 120	NDW \$
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	113	84	113	79
d-Chloroform	25	75-125	111	108	108	116
d-Benzene	25	75-125	109	108	105	112
Dibromofluoromethane	50	75-125	94	98	96	99
Toluene-d8	50	75-125	102	102	102	98
Bromofluorobenzene	50	75-125	101	101	103	99

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery

RL = Reporting Limit; MB = Method Blank; ND = Not Detected (Below RL); NA = Not Applicable







Reporting Unit: ug/L

	DATE A	NALYZED	12/21/00	12/21/00	12/21/00	12/21/00
AN	ALYTIC	AL BATCH	001221M4V325	001221M4V325	001221M4V325	001221M4V325
DILUTION FAC			5	5	5	5
CL	IENT SA	MPLE I.D.	ILSV72S01	ILSV72S02	ILSV72S03	ILSV72D03
	EPA I.D	& DEPTH	RV989 6'	RV990 10'	RV991 15'	RV992 15'
	LAB SA	MPLE I.D.	M4-205-04	M4-205-05	M4-205-06	M4-205-07
COMPOUND		RL	Bet Bun Gin	EL des &	un el failth	EL Quel Est
Dichlorodifluoromethane		1.0	SO NDIA	5.0 NDW	5.0 NDU	5.0 ND4
Vinyl Chloride		1.0	ND	ND	ND	ND/
Chloroethane		1.0	ND,	ND.	ND U	ND
Trichlorofluoromethane		1.0	NDta	NDW	NDIA	NDU
1,1-Dichloroethene		1.0	81	110	160	170
Methylene Chloride		1.0	NDIA	NDU	NDU	NDU
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND _W	ND	ND	ND
Chloroform	<u>-</u> -	1.0	ND(A	NDM	NDLA	NDu
1,1,1-Trichloroethane		1.0	14	16	19	20
Carbon Tetrachloride		1.0	NDM	NDM	NDU	NDU
1,2-Dichloroethane		1.0	ND.	ND	ND]	ND
Benzene		1.0	NDM	ND	ND &	ND
Trichloroethene		1.0	280	290	420	460
Toluene		1.0	NDU	NDIA	ND (A	NDU
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	W ND	/ ND//	₩ ND ₩	↓ ND ↓
1,1,2,2-Tetrachloroethane		1.0	5.0 NDW	5.0 NDIA	S.O NDIA	F.O NDW
1,1,2-Trichloro-trifluoroethane		5.01.0	25 190	25 220	25 330	2.5 350
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	81	81	94	109
d-Chloroform	25	75-125	87	80	88	99
d-Benzene	25	75-125	81	88	91	99
Dibromofluoromethane	50	75-125	98	99	97	93
Toluene-d8	50	75-125	103	103	101	102
Bromofluorobenzene	50	75-125	99	100	97	101

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery







Reporting Unit: ug/L

	DATE ANALYZED			12/21/00	12/21/00	12/21/00
ANA	LYTIC	AL BATCH	001221M4V325	001221M4V325	001221M4V325	001221M4V325
DI	LUTIO	FACTOR	1	1	1	1
CLIENT SAM		MPLE I.D.	ILSV64S01	ILSV64S02	ILSV64S03	ILSV65S01
E	PA I.D.	& DEPTH	RV993 5'	RV994 10'	RV995 15'	RV996 6'
1	AB SA	MPLE I.D.	M4-205-08	M4-205-09	M4-205-10	M4-205-11
COMPOUND		RL	Gen Gra	for Cinc	of Bank Est	el Bon Sta
Dichlorodifluoromethane		1.0	NDU	NDU	NDU	NDU
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	NDU
Chloroform		1.0	ND	ND	ND	NDU
1,1,1-Trichloroethane		1.0	ND	ND	ND	2.7
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND	ND]
Benzene		1.0	ND	ND	ND	ND
Trichloroethene		1.0	ND	ND	ND	ND
Toluene		1.0	ND	ND	ND	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND /	ND /	ND /	ND
1,1,2-Trichloro-trifluoroethane		5.04.0	NDIA	NDV \$	NDIA	NDU
SURROGATE	SPK	ACP%	%REC	%REC	%REC	%REC
	CONC					
d-Methylene Chloride	25	75-125	86	76	108	97
d-Chloroform	25	75-125	83	107	106	98
d-Benzene	25	75-125	80	110	110	98
Dibromofluoromethane	50	75-125	102	101	98	101
Toluene-d8	50	75-125	101	100	100	100
Bromofluorobenzene	50	75-125	98	99	99	100

SPK CONC = Spiking Concentration, ACP % = Acceptable Range of Percent, %REC = % Recovery









Reporting Unit: ug/L

	DATE A	NALYZED	12/21/00	12/21/00	12/21/00	12/21/00
ANA	ANALYTICAL BATCH		001221M4V325	001221M4V325	001221M4V325	001221M4V325
	DILUTION		1	1	1	1
CLI	ENT SA	MPLE I.D.	ILSV67S01	ILSV67S03	ILSV68S01	ILSV68D01
E	EPA I.D.	& DEPTH	RV997 3'	RV998 13'	RV999 3.5'	TV001 3.5'
	LAB SA	MPLE I.D.	M4-205-12	M4-205-13	M4-205-14	M4-205-15
COMPOUND	,	RL	Bun Gun	Sen Gua	e for the	Al Gran Con
Dichlorodifluoromethane		1.0	NDU	NDU	NDU	NDM
Vinyl Chloride		1.0	ND	ND	ND	ND
Chloroethane		1.0	ND	ND	ND	ND
Trichlorofluoromethane		1.0	ND	ND	ND	ND
1,1-Dichloroethene		1.0	ND	ND	ND	ND
Methylene Chloride		1.0	ND	ND	ND	ND
cis-1,2-Dichloroethene		1.0	ND	ND	ND	ND
1,1-Dichloroethane		1.0	ND	ND	ND	ND
trans-1,2-Dichloroethene		1.0	ND	ND	ND	ND
Chloroform		1.0	ND	ND	ND	ND
1,1,1-Trichloroethane		1.0	ND	ND	ND	ND
Carbon Tetrachloride		1.0	ND	ND	ND	ND
1,2-Dichloroethane		1.0	ND	ND	ND./	ND.
Benzene		1.0	ND	ND	NDLA	NDIA
Trichloroethene		1.0	ND	ND	1.4	1.8
Toluene		1.0	ND	ND	NDM	ND
1,1,2-Trichloroethane		1.0	ND	ND	ND	ND [
Tetrachloroethene		1.0	ND	ND	ND	ND
Ethylbenzene		1.0	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		1.0	ND	ND	ND	ND
m,p-Xylenes		1.0	ND	ND	ND	ND
o-Xylene		1.0	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		1.0	ND.//	ND.	ND	ND
1,1,2-Trichloro-trifluoroethane		5.01.0	NDU \$	NDIA #	NDN	NDIA
SURROGATE	SPK CONC	ACP%	%REC	%REC	%REC	%REC
d-Methylene Chloride	25	75-125	112	109	110	104
d-Chloroform	25	75-125	112	111	110	105
d-Benzene	25	75-125	118	112	111	105
Dibromofluoromethane	50	75-125	97	97	99	97
Toluene-d8	50	75-125	102	101	101	100
Bromofluorobenzene	50	75-125	98	99	98	100

SPK CONC = Spiking Concentration; ACP % = Acceptable Range of Percent; %REC = % Recovery



