203

K PRIME, Inc.

CONSULTING ANALYTICAL CHEMISTS

3621 Westwind Blvd.
Santa Rosa CA 95403
Phone: 707 527 7574
FAX: 707 527 7879

TRANSMITTAL

DATE: 10/04/00

TO: [redacted]
IT CORPORATION
4005 Port Chicago Hwy
Concord, CA 94520

Phone: (925) 288-9898
Fax: (925) 288-0888

ACCT: 9817
PROJ: 773247

FROM: Richard A. Kagel, Ph.D.
Laboratory Director

RAK bmcl 10/4/00

SUBJECT: YOUR PROJECT 773247 LABORATORY RESULTS

Enclosed please find K Prime's laboratory reports for the following samples:

SAMPLE ID	TYPE	DATE	KPI LAB #
00092425-PUFHRA-2007	AIR	09/24/00	27738
00092425-PUFHRB-2008	AIR	09/24/00	27739
00092425-PUFHRC-2002	AIR	09/24/00	27740
00092425-PUFHRD-2009	AIR	09/24/00	27741
00092425-PUFHRE-2010	AIR	09/24/00	27742
00092425-PUFHRF-2011	AIR	09/24/00	27743
00092425-PUFHRG-2012	AIR	09/24/00	27744

The above listed sample group was received on 09/26/00 and tested as requested on the chain of custody document.

Please call me if you have any questions or need further information.
Thank you for this opportunity to be of service.

CC: Mr. Cliff Foreman, JADA/IT Hunters Point FAX: 415-671-2809

ALTA

October 3, 2000

Alta Batch I.D.: 9133

Mr. Rich Kagel
K Prime, Inc.
3621 Westwind Blvd.
Santa Rosa, CA 95403

Dear Mr. Kagel,

Enclosed are the results for the seven PUF samples received at Alta Analytical Laboratory on September 27, 2000. This work was authorized as your Project #9817. These samples were forwarded to our affiliate laboratory, Alta Analytical Perspectives, for extraction and analysis using EPA Method TO-9 for tetra to octa chlorinated dioxins/dibenzofurans. A **RUSH** turnaround time was requested for this work.

These results are being reported in pg/m^3 based on volumes specified on the chain of custody.

The following report consists of a Sample Inventory (Section I), Analytical Results (Section II) and the Appendix. The Appendix contains a copy of the chain-of-custody, a list of data qualifiers and abbreviations, our current certifications, Excel™ diskette deliverables, and copies of the raw data.

Alta Analytical Laboratory remains committed to serving you in the most effective manner. Should you have any questions or need additional information and technical support, please do not hesitate to contact me. Thank you for choosing Alta as part of your analytical support team.

Sincerely,

Shelly A. Weagraff
HRMS Services Coordinator

Alta Analytical Laboratory Inc.
5070 Robert J. Mathews Parkway
El Dorado Hills, CA 95762

ALTA

Sample Inventory Report: MM5 Sampling Train

Project No.: 9133 **Project Name:** 9817

Date Rec.: 9/27/2000

Lab. Sample ID	Client Sample ID	Component ID
001	27738	PUF
002	27739	PUF
003	27740	PUF
004	27741	PUF
005	27742	PUF
006	27743	PUF
007	27744	PUF

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SECTION II.

ALTA

PCDD & PCDF
EPA METHOD TO-9

Method Blank | **Date Extracted:** 9/28/00 | **Lab ID:** MB001
Matrix: Train | **Sample Amount:** 0 Sample | **QC Set:** 975
TEQ (Min-Max): 0.000110 - 0.0166 | **Units:** pg/m3

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00333		1.30	
1,2,3,7,8-PeCDD	ND	0.00532		3.01	
1,2,3,4,7,8-HxCDD	ND	0.00926		1.93	
1,2,3,6,7,8-HxCDD	ND	0.0101		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00918		2.74	
1,2,3,4,6,7,8-HpCDD	ND	0.00786		3.99	
OCDD	ND	0.0114		33.5	
2,3,7,8-TCDF	ND	0.00605		0.991	
1,2,3,7,8-PeCDF	ND	0.00916		2.10	
2,3,4,7,8-PeCDF	ND	0.00917		1.91	
1,2,3,4,7,8-HxCDF	ND	0.00470		3.02	
1,2,3,6,7,8-HxCDF	ND	0.00438		1.53	
2,3,4,6,7,8-HxCDF	ND	0.00371		3.05	
1,2,3,7,8,9-HxCDF	ND	0.00545		4.17	
1,2,3,4,6,7,8-HpCDF	0.0110			3.96	A
1,2,3,4,7,8,9-HpCDF	ND	0.00740		1.06	
OCDF	ND	0.0194		10.1	
Total TCDD	ND	0.00333			
Total PeCDD	ND		0.0125		
Total HxCDD	ND	0.00950			
Total HpCDD	ND	0.00786			
Total TCDF	ND	0.00605			
Total PeCDF	ND	0.00917			
Total HxCDF	0.00581		0.00581		
Total HpCDF	0.0110		0.0110		

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PCDD & PCDF
EPA METHOD TO-9

Method Blank **QC Set:** 975
Lab ID: MB001

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	97.1	40 - 130	
13C-1,2,3,7,8-PeCDD	83.6	40 - 130	
13C-1,2,3,6,7,8-HxCDD	99.5	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	97.6	25 - 130	
13C-OCDD	81.9	25 - 130	
13C-2,3,7,8-TCDF	99.4	40 - 130	
13C-1,2,3,7,8-PeCDF	87.1	40 - 130	
13C-1,2,3,6,7,8-HxCDF	89.7	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	85.4	25 - 130	
13C-OCDF	87.6	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	NA	70 - 130	
13C-2,3,4,7,8-PeCDF	NA	70 - 130	
13C-1,2,3,4,7,8-HxCDD	NA	70 - 130	
13C-1,2,3,4,7,8-HxCDF	NA	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	NA	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	98.6	70 - 130	

Analysis Dates
DB-5: 9/29/00

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower Control Limit - Upper Control Limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

OPR RESULTS
Lab ID: OPR001
Matrix: Air

Date Received: NA
Date Extracted: 9/28/00
Sample Amount: 0 Train

QC Set: 975
Units: ng/mL

Compound	Spike Conc.	Conc. Found	OPR Limits
2,3,7,8-TCDD	2.50	2.48	1.75 - 3.25
1,2,3,7,8-PeCDD	12.5	13.2	8.75 - 16.25
1,2,3,4,7,8-HxCDD	12.5	14.1	8.75 - 16.25
1,2,3,6,7,8-HxCDD	12.5	14.9	8.75 - 16.25
1,2,3,7,8,9-HxCDD	12.5	14.5	8.75 - 16.25
1,2,3,4,6,7,8-HpCDD	12.5	14.1	8.75 - 16.25
OCDD	25.0	28.3	17.5 - 32.5
2,3,7,8-TCDF	2.50	2.72	1.75 - 3.25
1,2,3,7,8-PeCDF	12.5	14.2	8.75 - 16.25
2,3,4,7,8-PeCDF	12.5	14.3	8.75 - 16.25
1,2,3,4,7,8-HxCDF	12.5	14.4	8.75 - 16.25
1,2,3,6,7,8-HxCDF	12.5	15.5	8.75 - 16.25
2,3,4,6,7,8-HxCDF	12.5	14.4	8.75 - 16.25
1,2,3,7,8,9-HxCDF	12.5	15.1	8.75 - 16.25
1,2,3,4,6,7,8-HpCDF	12.5	15.0	8.75 - 16.25
1,2,3,4,7,8,9-HpCDF	12.5	16.0	8.75 - 16.25
OCDF	25.0	29.6	17.5 - 32.5

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PCDD & PCDF
EPA METHOD TO-9

OPR RESULTS QC Set: 275
Lab ID: OPR001

Internal Standards	Spike Conc.	%R	OPR Limits
13C-2,3,7,8-TCDD	100	90.3	40 - 130
13C-1,2,3,7,8-PeCDD	100	77.9	40 - 130
13C-1,2,3,6,7,8-HxCDD	100	91.1	40 - 130
13C-1,2,3,4,6,7,8-HpCDD	100	96.4	25 - 130
13C-OCDD	100	80.5	25 - 130
13C-2,3,7,8-TCDF	100	93.3	40 - 130
13C-1,2,3,7,8-PeCDF	100	85.1	40 - 130
13C-1,2,3,6,7,8-HxCDF	100	81.8	40 - 130
13C-1,2,3,4,6,7,8-HpCDF	100	83.6	25 - 130
13C-OCDF	100	84.2	25 - 130

Pre-spike Standards	Spike Conc.	%R	OPR Limits
37Cl-2,3,7,8-TCDD	NA	NA	70 - 130
13C-2,3,4,7,8-PeCDF	NA	NA	70 - 130
13C-1,2,3,4,7,8-HxCDD	NA	NA	70 - 130
13C-1,2,3,4,7,8-HxCDF	NA	NA	70 - 130
13C-1,2,3,4,7,8,9-HpCDF	NA	NA	70 - 130

Alternate Recovery Standard	Spike Conc.	%R	OPR Limits
13C-1,2,3,7,8,9-HxCDF	100	88.1	70 - 130

Analysis Dates
DB-5: 9/29/00

Analyst: JH

Reviewer:

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27738			Lab ID:	9133-001
Project:	9817			QC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0104 - 0.0205

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00280		1.30	
1,2,3,7,8-PeCDD	0.0100			3.01	A
1,2,3,4,7,8-HxCDD	ND	0.0104		1.93	
1,2,3,6,7,8-HxCDD	0.0139			2.47	A
1,2,3,7,8,9-HxCDD	ND	0.0103		2.74	
1,2,3,4,6,7,8-HpCDD	0.0923			3.99	A
OCDD	0.416			33.5	
2,3,7,8-TCDF	ND	0.00356		0.991	
1,2,3,7,8-PeCDF	ND	0.00773		2.10	
2,3,4,7,8-PeCDF	ND	0.00773		1.91	
1,2,3,4,7,8-HxCDF	0.0102			3.02	A
1,2,3,6,7,8-HxCDF	0.00755			1.53	A
2,3,4,6,7,8-HxCDF	0.00594			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00595		4.17	
1,2,3,4,6,7,8-HpCDF	0.0303			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00614		1.06	
OCDF	ND		0.0239	10.1	A
Total TCDD	ND	0.00280			
Total PeCDD	0.0431		0.0551		
Total HxCDD	0.0418		0.114		
Total HpCDD	0.201				
Total TCDF	0.103				
Total PeCDF	0.121		0.140		
Total HxCDF	0.103				
Total HpCDF	0.0527				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27738
Lab ID: 9133-001

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	91.6	40 - 130	
13C-1,2,3,7,8-PeCDD	73.8	40 - 130	
13C-1,2,3,6,7,8-HxCDD	96.0	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.9	25 - 130	
13C-OCDD	70.7	25 - 130	
13C-2,3,7,8-TCDF	93.4	40 - 130	
13C-1,2,3,7,8-PeCDF	81.4	40 - 130	
13C-1,2,3,6,7,8-HxCDF	84.3	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	79.3	25 - 130	
13C-OCDF	77.9	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.1	70 - 130	
13C-2,3,4,7,8-PeCDF	102	70 - 130	
13C-1,2,3,4,7,8-HxCDD	96.6	70 - 130	
13C-1,2,3,4,7,8-HxCDF	98.8	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	114	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	89.3	70 - 130	

Analysis Dates

DB-5: 9/29/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27739			Lab ID:	9133-002
Project:	9817			QC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0120 - 0.0208

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00320		1.30	
1,2,3,7,8-PeCDD	0.00938			3.01	A
1,2,3,4,7,8-HxCDD	ND	0.00722		1.93	
1,2,3,6,7,8-HxCDD	0.0165			2.47	A
1,2,3,7,8,9-HxCDD	ND	0.00716		2.74	
1,2,3,4,6,7,8-HpCDD	0.142			3.99	A
OCDD	0.732			33.5	
2,3,7,8-TCDF	0.00671			0.991	A
1,2,3,7,8-PeCDF	ND	0.00691		2.10	
2,3,4,7,8-PeCDF	ND	0.00692		1.91	
1,2,3,4,7,8-HxCDF	0.00976			3.02	A
1,2,3,6,7,8-HxCDF	0.00835			1.53	A
2,3,4,6,7,8-HxCDF	0.00617			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00338		4.17	
1,2,3,4,6,7,8-HpCDF	0.0351			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00674		1.06	
OCDF	0.0445			10.1	A
Total TCDD	0.00597				
Total PeCDD	0.0493		0.0632		
Total HxCDD	0.132				
Total HpCDD	0.307				
Total TCDF	0.121				
Total PeCDF	0.128				
Total HxCDF	0.0927		0.0982		
Total HpCDF	0.0702				

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PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27739
Lab ID: 9133-002

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	93.3	40 - 130	
13C-1,2,3,7,8-PeCDD	77.9	40 - 130	
13C-1,2,3,6,7,8-HxCDD	98.2	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	99.9	25 - 130	
13C-OCDD	99.1	25 - 130	
13C-2,3,7,8-TCDF	97.0	40 - 130	
13C-1,2,3,7,8-PeCDF	84.7	40 - 130	
13C-1,2,3,6,7,8-HxCDF	88.0	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	87.5	25 - 130	
13C-OCDF	95.4	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.0	70 - 130	
13C-2,3,4,7,8-PeCDF	103	70 - 130	
13C-1,2,3,4,7,8-HxCDD	97.0	70 - 130	
13C-1,2,3,4,7,8-HxCDF	98.7	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	110	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	89.9	70 - 130	

Analysis Dates

DB-5: 9/29/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27740			Lab ID:	9133-003
Project:	9817			QC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0241 - 0.0264

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND		0.00468	1.30	A
1,2,3,7,8-PeCDD	0.0101			3.01	A
1,2,3,4,7,8-HxCDD	ND	0.00913		1.93	
1,2,3,6,7,8-HxCDD	0.0217			2.47	A
1,2,3,7,8,9-HxCDD	ND	0.00906		2.74	
1,2,3,4,6,7,8-HpCDD	0.222			3.99	
OCDD	1.42			33.5	
2,3,7,8-TCDF	0.00792			0.991	A
1,2,3,7,8-PeCDF	0.00933			2.10	A
2,3,4,7,8-PeCDF	0.0152			1.91	A
1,2,3,4,7,8-HxCDF	0.0151			3.02	A
1,2,3,6,7,8-HxCDF	0.0127			1.53	A
2,3,4,6,7,8-HxCDF	0.00984			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00404		4.17	
1,2,3,4,6,7,8-HpCDF	0.0568			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00920		1.06	
OCDF	0.0739			10.1	A
Total TCDD	0.00814		0.0128		
Total PeCDD	0.0465		0.0706		
Total HxCDD	0.155				
Total HpCDD	0.442				
Total TCDF	0.165				
Total PeCDF	0.202		0.209		
Total HxCDF	0.147				
Total HpCDF	0.114				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27740
Lab ID: 9133-003

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	85.3	40 - 130	
13C-1,2,3,7,8-PeCDD	72.0	40 - 130	
13C-1,2,3,6,7,8-HxCDD	89.4	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.4	25 - 130	
13C-OCDD	76.4	25 - 130	
13C-2,3,7,8-TCDF	87.6	40 - 130	
13C-1,2,3,7,8-PeCDF	79.0	40 - 130	
13C-1,2,3,6,7,8-HxCDF	80.7	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	78.3	25 - 130	
13C-OCDF	78.4	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	97.3	70 - 130	
13C-2,3,4,7,8-PeCDF	107	70 - 130	
13C-1,2,3,4,7,8-HxCDD	101	70 - 130	
13C-1,2,3,4,7,8-HxCDF	101	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	113	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	79.9	70 - 130	

Analysis Dates

DB-5: 9/30/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27741			Lab ID:	9133-004
Project:	9817			OC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0141 - 0.0247

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00260		1.30	
1,2,3,7,8-PeCDD	ND	0.00756		3.01	
1,2,3,4,7,8-HxCDD	ND	0.0109		1.93	
1,2,3,6,7,8-HxCDD	ND	0.0120		2.47	
1,2,3,7,8,9-HxCDD	ND	0.0109		2.74	
1,2,3,4,6,7,8-HpCDD	0.187			3.99	
OCDD	1.72			33.5	
2,3,7,8-TCDF	0.00824			0.991	A
1,2,3,7,8-PeCDF	ND	0.00551		2.10	
2,3,4,7,8-PeCDF	0.0128			1.91	A
1,2,3,4,7,8-HxCDF	0.0108			3.02	A
1,2,3,6,7,8-HxCDF	0.00940			1.53	A
2,3,4,6,7,8-HxCDF	0.00683			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00515		4.17	
1,2,3,4,6,7,8-HpCDF	0.0501			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00893		1.06	
OCDF	0.0783			10.1	A
Total TCDD	ND	0.00260			
Total PeCDD	0.0427		0.0595		
Total HxCDD	0.108				
Total HpCDD	0.382				
Total TCDF	0.163				
Total PeCDF	0.148				
Total HxCDF	0.116				
Total HpCDF	0.110				

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PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27741
Lab ID: 9133-004

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	89.3	40 - 130	
13C-1,2,3,7,8-PeCDD	73.8	40 - 130	
13C-1,2,3,6,7,8-HxCDD	89.3	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	93.2	25 - 130	
13C-OCDD	69.1	25 - 130	
13C-2,3,7,8-TCDF	92.5	40 - 130	
13C-1,2,3,7,8-PeCDF	79.4	40 - 130	
13C-1,2,3,6,7,8-HxCDF	81.8	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	79.0	25 - 130	
13C-OCDF	73.7	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.3	70 - 130	
13C-2,3,4,7,8-PeCDF	104	70 - 130	
13C-1,2,3,4,7,8-HxCDD	102	70 - 130	
13C-1,2,3,4,7,8-HxCDF	100	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	112	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	85.7	70 - 130	

Analysis Dates

DB-5: 9/30/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27742			Lab ID:	9133-005
Project:	9817			QC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0146 - 0.0195

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00191		1.30	
1,2,3,7,8-PeCDD	0.00757			3.01	A
1,2,3,4,7,8-HxCDD	ND	0.00721		1.93	
1,2,3,6,7,8-HxCDD	ND	0.00788		2.47	
1,2,3,7,8,9-HxCDD	ND	0.00716		2.74	
1,2,3,4,6,7,8-HpCDD	0.0776			3.99	A
OCDD	0.479			33.5	
2,3,7,8-TCDF	0.00739			0.991	A
1,2,3,7,8-PeCDF	ND	0.00672		2.10	
2,3,4,7,8-PeCDF	0.0119			1.91	A
1,2,3,4,7,8-HxCDF	0.0123			3.02	A
1,2,3,6,7,8-HxCDF	0.00793			1.53	A
2,3,4,6,7,8-HxCDF	0.00490			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00340		4.17	
1,2,3,4,6,7,8-HpCDF	0.0294			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00758		1.06	
OCDF	0.0444			10.1	A
Total TCDD	0.00931				
Total PeCDD	0.0310		0.0537		
Total HxCDD	0.0924				
Total HpCDD	0.164				
Total TCDF	0.171				
Total PeCDF	0.118		0.136		
Total HxCDF	0.0909				
Total HpCDF	0.0544				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27742
Lab ID: 9133-005

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	90.8	40 - 130	
13C-1,2,3,7,8-PeCDD	77.5	40 - 130	
13C-1,2,3,6,7,8-HxCDD	94.6	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	98.2	25 - 130	
13C-OCDD	84.5	25 - 130	
13C-2,3,7,8-TCDF	94.5	40 - 130	
13C-1,2,3,7,8-PeCDF	84.0	40 - 130	
13C-1,2,3,6,7,8-HxCDF	83.2	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	84.7	25 - 130	
13C-OCDF	89.0	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	94.2	70 - 130	
13C-2,3,4,7,8-PeCDF	104	70 - 130	
13C-1,2,3,4,7,8-HxCDD	98.5	70 - 130	
13C-1,2,3,4,7,8-HxCDF	97.9	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	113	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	89.9	70 - 130	

Analysis Dates

DB-5: 9/30/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27743
Project: 9817
Matrix: PUF
Sample Amount: 1 Train

Date Received: 9/27/00
Date Extracted: 9/28/00

Lab ID: 9133-006
QC Set: 975
%Solids: NA
Units: pg/m3

[a] TEQ (Min-Max): 0.0126 - 0.0187

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00210		1.30	
1,2,3,7,8-PeCDD	ND		0.00620	3.01	A
1,2,3,4,7,8-HxCDD	ND	0.0110		1.93	
1,2,3,6,7,8-HxCDD	ND	0.0120		2.47	
1,2,3,7,8,9-HxCDD	ND	0.0109		2.74	
1,2,3,4,6,7,8-HpCDD	0.0922			3.99	A
OCDD	0.595			33.5	
2,3,7,8-TCDF	0.0131			0.991	A
1,2,3,7,8-PeCDF	ND	0.00588		2.10	
2,3,4,7,8-PeCDF	0.0133			1.91	A
1,2,3,4,7,8-HxCDF	0.0137			3.02	A
1,2,3,6,7,8-HxCDF	0.00706			1.53	A
2,3,4,6,7,8-HxCDF	0.00657			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00267		4.17	
1,2,3,4,6,7,8-HpCDF	0.0333			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00746		1.06	
OCDF	0.0548			10.1	A
Total TCDD	0.0103				
Total PeCDD	0.0312		0.0604		
Total HxCDD	0.0879				
Total HpCDD	0.199				
Total TCDF	0.230				
Total PeCDF	0.176		0.181		
Total HxCDF	0.103				
Total HpCDF	0.0683				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27743
Lab ID: 9133-006

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	88.8	40 - 130	
13C-1,2,3,7,8-PeCDD	76.8	40 - 130	
13C-1,2,3,6,7,8-HxCDD	92.7	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	95.6	25 - 130	
13C-OCDD	79.7	25 - 130	
13C-2,3,7,8-TCDF	93.7	40 - 130	
13C-1,2,3,7,8-PeCDF	82.9	40 - 130	
13C-1,2,3,6,7,8-HxCDF	78.4	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	78.8	25 - 130	
13C-OCDF	81.9	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	93.7	70 - 130	
13C-2,3,4,7,8-PeCDF	104	70 - 130	
13C-1,2,3,4,7,8-HxCDD	94.8	70 - 130	
13C-1,2,3,4,7,8-HxCDF	99.9	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	114	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	82.5	70 - 130	

Analysis Dates

DB-5: 9/30/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID:	27744			Lab ID:	9133-007
Project:	9817			QC Set:	975
Matrix:	PUF	Date Received:	9/27/00	%Solids:	NA
Sample Amount:	1 Train	Date Extracted:	9/28/00	Units:	pg/m3

[a] TEQ (Min-Max): 0.0163 - 0.0204

Compound	Conc.	DL [b]	EMPC [c]	MDL [d]	Qualifier
2,3,7,8-TCDD	ND	0.00180		1.30	
1,2,3,7,8-PeCDD	0.00685			3.01	A
1,2,3,4,7,8-HxCDD	ND	0.00717		1.93	
1,2,3,6,7,8-HxCDD	0.0155			2.47	A
1,2,3,7,8,9-HxCDD	ND	0.00712		2.74	
1,2,3,4,6,7,8-HpCDD	0.187			3.99	
OCDD	1.77			33.5	
2,3,7,8-TCDF	0.00649			0.991	A
1,2,3,7,8-PeCDF	ND	0.00716		2.10	
2,3,4,7,8-PeCDF	0.00883			1.91	A
1,2,3,4,7,8-HxCDF	0.00862			3.02	A
1,2,3,6,7,8-HxCDF	0.00638			1.53	A
2,3,4,6,7,8-HxCDF	0.00631			3.05	A
1,2,3,7,8,9-HxCDF	ND	0.00472		4.17	
1,2,3,4,6,7,8-HpCDF	0.0377			3.96	A B
1,2,3,4,7,8,9-HpCDF	ND	0.00917		1.06	
OCDF	0.0869			10.1	A
Total TCDD	0.00805				
Total PeCDD	0.0277		0.0530		
Total HxCDD	0.121				
Total HpCDD	0.388				
Total TCDF	0.166				
Total PeCDF	0.144		0.149		
Total HxCDF	0.0919				
Total HpCDF	0.0951				

ALTA

PCDD & PCDF
EPA METHOD TO-9

Sample ID: 27744
Lab ID: 9133-007

Internal Standards	%R	LCL-UCL[e]	Qualifier
13C-2,3,7,8-TCDD	94.7	40 - 130	
13C-1,2,3,7,8-PeCDD	81.0	40 - 130	
13C-1,2,3,6,7,8-HxCDD	97.6	40 - 130	
13C-1,2,3,4,6,7,8-HpCDD	103	25 - 130	
13C-OCDD	94.8	25 - 130	
13C-2,3,7,8-TCDF	96.8	40 - 130	
13C-1,2,3,7,8-PeCDF	87.0	40 - 130	
13C-1,2,3,6,7,8-HxCDF	89.7	40 - 130	
13C-1,2,3,4,6,7,8-HpCDF	88.0	25 - 130	
13C-OCDF	94.1	25 - 130	
Pre-spike Standards			
37Cl-2,3,7,8-TCDD	93.8	70 - 130	
13C-2,3,4,7,8-PeCDF	103	70 - 130	
13C-1,2,3,4,7,8-HxCDD	102	70 - 130	
13C-1,2,3,4,7,8-HxCDF	97.9	70 - 130	
13C-1,2,3,4,7,8,9-HpCDF	112	70 - 130	
Alternate Recovery Standard			
13C-1,2,3,7,8,9-HxCDF	94.6	70 - 130	

Analysis Dates

DB-5: 9/30/00 **DB-225:** NA

a. Toxic Equivalent Quotient (TEQ) based on USEPA Toxic Equivalent Factors.
b. Sample specific estimated detection limit.
c. Estimated maximum possible concentration
d. Method Detection Limit
e. Lower control limit - upper control limit

ALTA

APPENDIX

ALTA

DATA QUALIFIERS & ABBREVIATIONS

A	The amount detected is below the Method Calibration Limit.
B	This compound was also detected in the blank.
C	The amount detected is less than five times the Method Quantitation Limit.
D	The amount reported is the maximum possible concentration.
E	The detection limit was raised above the Method Quantitation Limit due to chemical interference's.
F	This result has been confirmed on a DB-225 column.
G	This result has been confirmed on a SP-2331 column.
H	The signal-to-noise ratio is greater than 10:1.
I	Chemical Interference

Conc.	Concentration
D.L.	Detection Limit
NA	Not applicable
S/N	Signal-to-noise
*	See Cover Letter
ND	Not Detected
MPC	Maximum Possible Concentration

ALTA

CURRENT CERTIFICATIONS

Bureau of Reclamation-Mid-Pacific Region---(MP-470, Res-1.10)

Commonwealth of Kentucky---(Certificate No. 90063)

Commonwealth of Virginia---(Certificate No. 00013)

State of Alaska, Department of Environmental Conservation---(Certificate No. OS-00197)

State of Arkansas, Department of Health---(Approval granted through CA certification)

State of Arkansas, Department of Environmental Quality---

State of California---(Certificate No. 1640)

State of Connecticut---(Certificate No. PH-0182)

State of Florida---(Certificate No. 87456)

State of Louisiana---(Certificate No. 98-33)

State of Mississippi---(Approval granted through CA certification)

State of Nevada---(Certificate No. CA413)

State of New York, Department of Health---(Certificate No. 11411)

State of North Carolina---(Certificate No. 06700)

State of North Dakota, Department of Health---(Certificate No. R-078)

State of Oregon---

State of Pennsylvania---(Certificate No. 68-490)

State of South Carolina---(Certificate No. 87002001)

State of Texas — (Certificate No. TX247-2000A)

State of Tennessee---(Certificate No. 02996)

State of Utah---(Certificate No. E-201)

State of Washington, Department of Ecology---(Certification No. C091)

State of Wisconsin---(Certificate No. 998036160)

State of Wyoming---(Ref: 8ES-LB)

U.S. Army Corps of Engineers

U.S. 5 EPA Region

May 2000

To: ALTA ANALYTICAL

K PRIME, INC.

CHAIN OF CUSTODY RECORD

CONSULTING ANALYTICAL CHEMISTS 3621 Westwind Blvd., Santa Rosa, CA 95403 PHONE: (707) 527-7574 FAX: (707) 527-7879

Client/Project ID: 9817

Address/Phone:

KPI Project No.:

Project Location:

Client Project No.:

Contact: C. Kagel

Sampler (Signature):

ANALYSES

Sample Identification No.	Date	Volume ~~Time~~ m³	Lab Sample No.	Type of Sample	No. of Containers	TO-9 HRGC/HRMS Dioxins/Furans							Expected Turnaround Time	Remarks
27738	9/24/00	334.24		PUF		X							5 day	
27739		342.70				X								
27740		341.41				X								
27741		322.02				X								
27742		342.99				X								
27743		332.72				X								
27744		328.88				X								

Relinquished by: (Signature) C Kagel to FedEx

Received by: (Signature) K. Fuit ALTA — Date 9-27-00 Time 1000

Relinquished by: (Signature)

Received by: (Signature) — Date — Time

Relinquished by: (Signature)

Received by: (Signature) — Date — Time

Disposal Method

Disposed by: (Signature) — Date — Time

White Copy : Accompanies Samples
Yellow Copy : Sampler

STANDARD OPERATING PROCEDURE

Attachment 10.B.1

SAMPLE LOG-IN CHECKLIST

ALTA Project No.: 9133 **Client/Protocol No.** N/A

1. Date Samples Arrived: 9-27-00 Initials: M.L. Location:			
2. Time / Date logged in: 1130 9-27-00 Initials: M.L. Location: R-3			
3. Samples Arrived By: (circle) (FedEx) UPS World Courier Other:			
4. Shipping Preservation: (circle) Ice (Blue Ice) Dry Ice / None Temp °C 2			
	YES	NO	NA
5. Shipping Container(s) Intact"? If not, describe condition in comment section.	X		
6. Shipping Container(s) Custody Seals Present?	X		
Intact? If not intact, describe condition in comment section.	X		
7. Shipping Documentation Present? (circle) Shipping Label (Airbill) Tracking Number 814817512220	X		
8. Sample Custody Seal(s) Present? No. of Seals____ or Seal No.____		X	
Intact? If not intact, describe condition in comment section.			X
9. Sample Container Intact? If no, indicate sample condition in comment section.	X		
10. Chain of Custody (COC) or other Sample Documentation Present?	X		
11. COC/Documentation Acceptable? If no, complete COC Anomaly Form.	X		
12. Shipping Container (circle): ALTA (Client) Retain or (Return) or Disposed			
13. Container(s) and/or Bottle(s) Requested?		X	
14. Sample Control Check In/Out Log Completed? (HRMS Only)	X		
15. Drinking Water Sample? (HRMS Only) If yes, Acceptable Preservation? Y or N			X
Preservation Info From? (circle) COC or Sample Container or None Noted			
16. Number of Samples Received:			

Name: _____ Date Samples Reconciled: _____
(Signature Required for LCMS Only)

Comments: