CUMMINGS RITER CONSULTANTS, INC.

VOLUME III OF III

DATA SUMMARY REPORT
PHASE II INVESTIGATION
WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA

PREPARED FOR:
WESTINGHOUSE ELECTRIC CORPORATION
WESTINGHOUSE BUILDING
11 STANWIX STREET
PITTSBURGH, PENNSYLVANIA 15222

PROJECT NO. 93132.30/09
DECEMBER 15, 1995

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CUMMINGS RITER CONSULTANTS, INC.

WELL DEVELOPMENT FORM
WELL NO. MW-6B

PROJECT NAME Blaw-Knox

FIELD ENG./GEO DPC

PROJECT NO. 93-132

DATE 8-23-95

INITIAL WATER LEVEL 11.35' TOR

TIME DEVELOPMENT STARTED 9:05

WATER LEVEL AFTER DEVELOPMENT 11.58' TOR

TIME DEVELOPMENT CEASED 9:45

WATER LEVEL AFTER RECOVERY -

LENGTH OF RECOVERY PERIOD -

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°C)	Remarks
8-23-95	09:07	~ 2 gal	6.28	995	63.1	Turbid
"	09:15	~ 20 gal	7.13	590	54.1	Turbid
"	09:22	~ 45 gal	7.33	477	53.7	slightly turbid
"	09:29	~ 70 gal	7.52	472	53.7	clear
"	09:35	~ 100 gal	7.59	466	53.6	clear
"	09:42	~ 135 gal	7.61	466	53.6	clear

Was water injected into well during development? Yes ☐ No ☑

If yes give approximate volume

Visual description of water: Prior to Development Turbid, milky gray

After Development clear

Was recovery test run following development? Yes ☐ No ☑

If yes give approximate volume —

Additional Remarks: Dry well after ~ 11 gal

Stable at 20 30' TOR pump ~ 5 gpm

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CUMMINGS RITER CONSULTANTS, INC.

WELL DEVELOPMENT FORM

WELL NO. MW-7B

PROJECT NAME Blaisdell (W)

FIELD ENG./GEO DPC

PROJECT NO. 93-132

DATE 9-1-95

INITIAL WATER LEVEL 64.97' TOR

TIME DEVELOPMENT STARTED 08:07

WATER LEVEL AFTER DEVELOPMENT dry

TIME DEVELOPMENT CEASED 08:22

WATER LEVEL AFTER RECOVERY

LENGTH OF RECOVERY PERIOD

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°)	Remarks
9-1-95	08:10	~ 0.5 gal	8.37	697	67.4	Slightly turbid
"	08:16	~ 5.0 gal	8.02	564	65.7	clear
"	08:20	~ 9.0 gal	8.16	417	66.2	slightly turbid

Was water injected into well during development? Yes ☐ No ☑

If yes give approximate volume —

Visual description of water: Prior to Development Slightly turbid

After Development slightly turbid

Was recovery test run following development? Yes ☐ No ☑

If yes give approximate volume —

Additional Remarks: One well volume = ~ 3.2 gallons

Well pumped dry after ~ 10.0 gallons removed

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CUMMINGS RITER CONSULTANTS, INC.

WEI DEVELOPMENT FORM
WELL NO. MW-8B

PROJECT NAME Blaisdell (W)
FIELD ENG./GEO DPC
PROJECT NO. 93-132
DATE 8-31-95

INITIAL WATER LEVEL 13.40' TOR
TIME DEVELOPMENT STARTED 0800
WATER LEVEL AFTER DEVELOPMENT 14.30' TOR (08:30)
TIME DEVELOPMENT CEASED 0830
WATER LEVEL AFTER RECOVERY
LENGTH OF RECOVERY PERIOD

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible Pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°F)	Remarks
8-31-95	08:02	~1 gal	8.30	316	61.0	slightly Turbid
"	08:06	~13 gal	8.11	292	56.7	clear
"	08:11	~28 gal	7.83	296	56.4	clear
"	08:16	~43 gal	7.80	296	56.1	clear
"	08:21	~58 gal	7.82	296	56.2	clear
"	08:30	~85 gal	7.87	293	56.2	clear

Was water injected into well during development? Yes ☐ No ☑
If yes give approximate volume —
Visual description of water: Prior to Development Slightly Turbid
After Development Clear

Was recovery test run following development? Yes ☐ No ☑
If yes give approximate volume

Additional Remarks: One well volume = ~7.0 gal (55' - 10.5') × 0.16
Well stabilized at ~15.5' pumping ~3 gpm

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CUMMINGS RITER CONSULTANTS, INC.

WE' DEVELOPMENT FORM
WELL NO. MW-10B

PROJECT NAME Blaneville
FIELD ENG./GEO DPC
PROJECT NO. 93-132
DATE 8-30-95

INITIAL WATER LEVEL 24.41' TOR
TIME DEVELOPMENT STARTED 09:30
WATER LEVEL AFTER DEVELOPMENT 31.10' TOR (10:16)
TIME DEVELOPMENT CEASED 10:15
WATER LEVEL AFTER RECOVERY —
LENGTH OF RECOVERY PERIOD —

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°F)	Remarks
8-30-95	09:32	~2 gal	5.83	336	66.9	Turbid
"	09:40	~10 gal	6.87	326	59.7	Turbid
"	09:47	~24 gal	7.04	334	59.5	Clear
"	09:57	~38 gal	7.30	330	58.5	clear
"	10:03	~55 gal	7.42	323	56.2	clear
"	10:10	~90 gal	7.44	319	56.7	clear
"	10:15	~115 gal	7.47	318	56.4	clear

Was water injected into well during development? Yes ☐ No ☑
If yes give approximate volume —
Visual description of water: Prior to Development Turbid
After Development clear

Was recovery test run following development? Yes ☐ No ☑
If yes give approximate volume ~2.0' in 5 min

Additional Remarks: One well volume = ~8 gallon
Stabilized at 27.7' pumping ~2 gpm / Stabilized at 33.5' pumping ~6 gpm

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CUMMINGS RITER CONSULTANTS, INC.

WELL DEVELOPMENT FORM

WELL NO. MW-11A

PROJECT NAME @ BLAIRSVILLE

FIELD ENG./GEO. DES

PROJECT NO. 93-132

DATE(S) 8-17-95

INITIAL WATER LEVEL 8.86' TOR

TIME DEVELOPMENT STARTED 11:15

WATER LEVEL AFTER DEVELOPMENT _____

TIME DEVELOPMENT CEASED 13:20

WELL DEVELOPMENT TECHNIQUE(S) USED ALTERNATE SURGE AND PUMP

DATE/ TIME	VOLUME REMOVED	CUMULATIVE VOLUME	pH	SPECIFIC CONDUCTANCE	TEMP.	REMARKS
8-17-95 11:16	½ gal	½ gal	6.83	900	66.3	TURBID
8-17-95 11:22	2½ gal	3 gal	6.39	750	65.9	VERY TURBID
8-17-95 11:41	9 gal	12 gal	6.12	739	63.9	TURBID
8-17-95 11:58	8 gal	20 gal	6.14	725	62.2	Turbid
8-17-95 12:16	20 gal	40 gal	6.23	738	63.5	Turbid
8-17-95 12:27	20 gal	60 gal	6.25	750	64.6	SLIGHTLY TURBID
8-17-95 13:20	20 gal	80 gal	6.21	752	64.5	V. SLIGHTLY TURBID

WAS WATER INJECTED INTO WELL DURING DEVELOPMENT YES ☐ NO ☒

IF YES GIVE APPROXIMATE VOLUME NA

VISUAL DESCRIPTION OF WATER: PRIOR TO DEVELOPMENT TURBID

AFTER DEVELOPMENT V. SLIGHTLY TURBID

WAS RECOVERY TEST RUN FOLLOWING DEVELOPMENT YES ☒ NO ☐

IF SO GIVE RESULTS: water level recovered 2.5' in 3 minutes from end of pumping.

ADDITIONAL REMARKS: one well volume = 2.9 gal

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WELL DEVELOPMENT FORM

WELL NO. MW-12A

PROJECT NAME Blairsville

FIELD ENG./GEO. DES

PROJECT NO. 93-132

DATE(S) 8-17-95

INITIAL WATER LEVEL 5.14' TOR

TIME DEVELOPMENT STARTED 15:55

WATER LEVEL AFTER DEVELOPMENT

TIME DEVELOPMENT CEASED 17:50

WELL DEVELOPMENT TECHNIQUE(S) USED Alternate surge & Pump

DATE/ TIME	VOLUME REMOVED	CUMULATIVE VOLUME	pH	SPECIFIC CONDUCTANCE	TEMP.	REMARKS
8-17-95/16:00	5 gal	5 gal	6.00	515	66.2	very turbid
8-17-95/16:18	22 gal	27 gal	5.46	450	67.6	turbid
8-17-95/16:38	23 gal	50 gal	5.39	431	68.4	turbid
8-17-95/16:53	27 gal	77 gal	5.64	455	66.3	slightly turbid
8-17-95/17:30	27 gal	104 gal	5.62	435	66.7	clear

WAS WATER INJECTED INTO WELL DURING DEVELOPMENT YES ☐ NO ☒

IF YES GIVE APPROXIMATE VOLUME N/A

VISUAL DESCRIPTION OF WATER: PRIOR TO DEVELOPMENT very turbid

AFTER DEVELOPMENT clear

WAS RECOVERY TEST RUN FOLLOWING DEVELOPMENT YES ☐ NO ☒

IF SO GIVE RESULTS:

ADDITIONAL REMARKS: one well volume = 9.9 gal

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WEI DEVELOPMENT FORM
WELL NO. MW-13A

PROJECT NAME Blairsville
FIELD ENG./GEO DPC
PROJECT NO. 93-132
DATE 8-18-95

INITIAL WATER LEVEL 8.64' TOR
TIME DEVELOPMENT STARTED 10:38
WATER LEVEL AFTER DEVELOPMENT 8.80' TOR
TIME DEVELOPMENT CEASED 11:50
WATER LEVEL AFTER RECOVERY —
LENGTH OF RECOVERY PERIOD —

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°F)	Remarks
8-18-95	10:39	~4 gal	7.18	500	64.2	Turbid
"	10:44	~17 gal	7.23	442	62.8	Turbid
"	10:50	~27 gal	5.97	426	61.5	slightly Turbid
"	11.00	~37 gal	5.83	409	61.4	slightly Turbid
"	11:15	~60 gal	5.78	415	61.3	clear
"	11.25	~75 gal	5.73	420	61.7	clear
"	11:30	~100 gal	5.60	393	61.3	clear

Was water injected into well during development? Yes ☐ No ☑
If yes give approximate volume —
Visual description of water: Prior to Development Turbid
After Development clear

Was recovery test run following development? Yes ☐ No ☑
If yes give approximate volume —

Additional Remarks: One well volume = 2.2 gal
Hour - Oppm in well

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CUMMINGS RITER CONSULTANTS, INC.

WEL DEVELOPMENT FORM
WELL NO. MW-15

PROJECT NAME Blairsville (W)

FIELD ENG./GEO DPC

PROJECT NO. 93-132

DATE 8-31-95

INITIAL WATER LEVEL 40.12' TOR

TIME DEVELOPMENT STARTED 09:10

WATER LEVEL AFTER DEVELOPMENT 41.0' TOR

TIME DEVELOPMENT CEASED 10:05

WATER LEVEL AFTER RECOVERY —

LENGTH OF RECOVERY PERIOD —

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°F)	Remarks
8-31-95	09:17	~1 gal	7.88	931	62.1	Turbid
"	09:21	~10 gal	8.18	635	55.4	Turbid
"	09:26	~20 gal	8.08	603	55.2	Slightly Turbid
"	09:31	~30 gal	8.03	567	55.3	Slighty Turbid
"	09:37	~42 gal	8.13	516	55.1	slightly turbid
"	09:45	~60 gal	8.13	537	55.1	slightly turbid
"	09:55	~80 gal	8.35	485	55.5	clear
"	10:00	~90 gal	8.32	497	55.3	clear
"	10:05	~100 gal	8.16	486	55.2	clear

Was water injected into well during development? Yes ☐ No ☑

If yes give approximate volume —

Visual description of water: Prior to Development Turbid

After Development Clear

Was recovery test run following development? Yes ☐ No ☑

If yes give approximate volume —

Additional Remarks: One well volume = ~3.0 gallons

Well stabilized 41.5 pumping ~2.2 gpm

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CUMMINGS RITER CONSULTANTS, INC.

WELL DEVELOPMENT FORM
WELL NO. MW-16A

PROJECT NAME Blaisdell (W)
FIELD ENG./GEO DPC
PROJECT NO. 93-132
DATE 8-21-95

INITIAL WATER LEVEL 4.30' TOR
TIME DEVELOPMENT STARTED 12:00
WATER LEVEL AFTER DEVELOPMENT 10.75' TOR
TIME DEVELOPMENT CEASED 13:27
WATER LEVEL AFTER RECOVERY
LENGTH OF RECOVERY PERIOD

WATER DEVELOPMENT TECHNIQUE(S) USED Submersible Pump / Surging

Date	Time	Cumulative Volume	pH	Specific Conductance	Temp (°F)	Remarks
8-21-95	12:00	~2 gal	6.83	286	72.6	Turbid
"	12:03	~8 gal	4.72	295	72.6	"
"	12:12	~18 gal	4.56	297	72.5	"
"	12:21	~30 gal	4.65	319	73.3	"
"	12:31	~38 gal	4.87	352	72.9	Slightly Turbid
"	12:39	~50 gal	4.98	308	72.7	Slightly Turbid
"	12:50	~60 gal	4.88	296	72.5	" "
"	13:00	~70 gal	4.85	297	72.5	" "
"	13:15	~86 gal	5.23	305	72.4	" "
"	13:26	~100 gal	5.14	324	72.5	clear

Was water injected into well during development? Yes ☐ No ☑
If yes give approximate volume —
Visual description of water: Prior to Development Turbid
After Development clear

Was recovery test run following development? Yes ☐ No ☑
If yes give approximate volume

Additional Remarks: One well volume ~3 gal

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CUMMINGS RITER CONSULTANTS, INC.

WELL DEVELOPMENT FORM

WELL NO. MW-17A

PROJECT NAME Blaisdell

PROJECT NO. 93132

FIELD ENG./GEO. DES

DATE(S) 8-17-95

INITIAL WATER LEVEL 11.43' TOR

WATER LEVEL AFTER DEVELOPMENT

TIME DEVELOPMENT STARTED 14:20

TIME DEVELOPMENT CEASED 15:10

WELL DEVELOPMENT TECHNIQUE(S) USED alternate surge / pump

DATE/ TIME	VOLUME REMOVED	CUMULATIVE VOLUME	pH	SPECIFIC CONDUCTANCE	TEMP.	REMARKS
8-17-95/14:11	1 gal	1 gal	6.07	329	62.4	very turbid
8-17-95/14:29	9 gal	10 gal	5.88	301	62.3	very turbid
8-17-95/14:51	9 gal	19 gal	5.78	279	62.9	Turbid
8-17-95/15:10	5 gal	24 gal	5.79	282	62.9	slightly turbid

WAS WATER INJECTED INTO WELL DURING DEVELOPMENT YES ☐ NO ☒

IF YES GIVE APPROXIMATE VOLUME NA

VISUAL DESCRIPTION OF WATER: PRIOR TO DEVELOPMENT very turbid

AFTER DEVELOPMENT slightly turbid

WAS RECOVERY TEST RUN FOLLOWING DEVELOPMENT YES ☒ NO ☐

IF SO GIVE RESULTS: well recovered 1' in 7 min - 42 sec after development

ADDITIONAL REMARKS: one well volume = 8 gal

CUMMINGS RITER CONSULTANTS, INC.	WELL PURGING RECORD	Project No: 93-132 Project Name: Blainville (W) Field Eng/Geo: DPC/WAB

Well Number:	—	MW-7A	MW-7B	MW-10A	MW-10B	MW-6A
Purging Date:	—	9-18-95	9-18-95	9-18-95	9-18-95	9-19-95
Purging Order:	—	1	2	3	4	5
Well Riser Diameter:	inches	2.0	2.0	2.0	2.0	2.0
Total Well Depth:	feet	20.9	85.0	27.0	71.0	19.7
Static Water Level:	feet	11.20	47.80	19.55	12.29	12.02
Reference Point[a]:	—	TOR	TOR	TOR	TOR	TOR
Water Column Height:	feet	9.7	37.20	7.45	58.71	7.68
Well Volume Calculation[b]:	—	x 0.16	x 0.16	x 0.16	x 0.16	x 0.16
One Well Volume:	gallons	~1.6	~6.0	~1.2	~9.4	~1.2
Purging Time:	start/stop	11:20/13:00	10:30/11:45	13:35/14:30	13:35/15:15	08:30/08:55
Well Vol. Removed:	—	~2	~3	~3	~3	~3
Total Vol. Removed:	gallons	~30 gal	~20 gal	~4.5 gal	~30 gal	~4 gal
Purging Method[c]:	—	Peristaltic pump	Submersible pump / low flow	Peristaltic pump	Disposable bailer	Peristaltic pump
Purge Water Disposition[d]:	—	Contained				

Proir to Purging:	pH (standard units)	8.40	9.44	7.50	6.69	8.99
	Temperature (°F)	64.6	65.4	61.8	58.0	53.5
	Spec. Cond. (µmhos/cm)	277	567	117	209	147
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	sl. Turbid	Turbid	clear	clear
1 Well Volume	pH (standard units)	8.04	9.20	6.92	7.18	8.60
	Temperature (°F)	64.5	63.3	58.9	56.1	53.1
	Spec. Cond. (µmhos/cm)	246	390	118	233	170
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	sl. Turbid	clear	clear	sl. Turbid
2 Well Volumes	pH (standard units)	7.80	8.96	6.75	7.65	8.34
	Temperature (°F)	64.2	67.8	57.8	56.7	53.1
	Spec. Cond. (µmhos/cm)	269	410	114	236	180
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	sl. Turbid	clear	clear	clear
3 Well Volumes	pH (standard units)	—	7.53	6.70	8.30	7.53
	Temperature (°F)	—	66.8	61.4	56.2	52.9
	Spec. Cond. (µmhos/cm)	—	534	116	240	186
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	—	sl. Turbid	clear	clear	clear
4 Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					
_ Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					

CUMMINGS RITER CONSULTANTS, INC.	WELL PURGING RECORD	Project No: 93-132 Project Name: Blainsville Field Eng/Geo: DPC / WAB

Well Number:	—	MW-6B	MW-8A	MW-8B	MW-15	MW-17A
Purging Date:	—	9-19-95	9-19-95	9-19-95	9-20-95	9-20-95
Purging Order:	—	6	7	8	9	10
Well Riser Diameter:	inches	2.0	2.0	2.0	2.0	2.0
Total Well Depth:	feet	78.0	20.0	55.0	60.0	22.0
Static Water Level:	feet	12.40	12.80	13.85	40.02	12.05
Reference Point[a]:	—	TOR	TOR	TOR	TOR	TOR
Water Column Height:	feet	65.6	7.2	41.2	19.98	9.95
Well Volume Calculation[b]:	—	x0.16	x0.16	x0.16	x0.16	x0.16
One Well Volume:	gallons	~10.5	~1.2	~6.6	~3.2	~1.6
Purging Time:	start/stop	08:55/10:10	11:30/13:50	11:30/12:30	08:10/09:15	1005/1020
Well Vol. Removed:	—	~3	~3	~3	~3	~3
Total Vol. Removed:	gallons	~32 gal	~4 gal	~20 gal	~10 gal	~5 gal
Purging Method[c]:	—	Disposable Bailer	→	→	→	→
Purge Water Disposition[d]:	—	Contained	ON-SITE	→	→	→

Proir to Purging:	pH (standard units)	7.04	9.0	9.60	9.50	9.11
	Temperature (°F)	54.4	62.5	61.6	55.7	60.2
	Spec. Cond. (µmhos/cm)	1144	629	411	593	203
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	Turbid	clear	clear	Turbid
1 Well Volume	pH (standard units)	8.05	8.60	9.36	9.25	8.88
	Temperature (°F)	52.6	63.1	57.0	55.4	60.3
	Spec. Cond. (µmhos/cm)	389	885	780	532	231
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	Turbid	clear	clear	Turbid
2 Well Volumes	pH (standard units)	8.17	8.76	9.95	9.00	8.95
	Temperature (°F)	52.4	61.6	55.7	55.6	58.6
	Spec. Cond. (µmhos/cm)	351	664	567	488	265
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	Turbid	clear	clear	Turbid
3 Well Volumes	pH (standard units)	8.63	8.80	9.97	8.85	8.86
	Temperature (°F)	53.9	62.3	61.9	55.8	60.3
	Spec. Cond. (µmhos/cm)	363	574	364	493	490
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	clear	Turbid	clear	clear	Turbid
4 Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					
Vell Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					

CUMMINGS RITER CONSULTANTS, INC.

WELL PURGING RECORD

Project No: 93-132
Project Name: Blansville
Field Eng/Geo: DPC/WAB

Well Number:	—	MW-16A	MW-11A	MW-13A	MW-2	MW-12A
Purging Date:	—	9-20-95	9-20-95	9-20-95	9-20-95	9-21-95
Purging Order:	—	11	12	13	14	15
Well Riser Diameter:	inches	2.0	2.0	2.0	2.0	4.0
Total Well Depth:	feet	23.0	25.0	22.0	14.0	21.0
Static Water Level:	feet	5.27	10.25	9.81	9.30	6.45
Reference Point[a]:	—	TOR	TOR	TOR	TOR	TOR
Water Column Height:	feet	17.73	14.75	12.19	4.7	14.55
Well Volume Calculation[b]:	—	x0.16	x0.16	x0.16	x0.16	x0.65
One Well Volume:	gallons	~2.8	~2.4	~2.0	~0.75	~9.5
Purging Time:	start/stop	1050/1115	1200/1220	1245/13:10	13:30/13:35	0810/0930
Well Vol. Removed:	—	~3	~3	~3	~1.5	~3
Total Vol. Removed:	gallons	~9	~8	~6	~1.5 gal	~30 gal
Purging Method[c]:	—	Disposable bailer				
Purge Water Disposition[d]:	—	Contained on-site				

Proir to Purging:	pH (standard units)	6.59	7.87	8.10	7.65	7.48
	Temperature (°F)	72.1	67.0	65.9	64.8	65.9
	Spec. Cond. (µmhos/cm)	381	550	392	802	411
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	Turbid	sl. Turbid	Turbid	clear	Turbid
1 Well Volume	pH (standard units)	7.35	8.06	8.38	7.70	6.68
	Temperature (°F)	72.0	62.8	62.7	65.2	68.6
	Spec. Cond. (µmhos/cm)	365	555	389	838	482
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	Turbid	Turbid	Turbid	sl. Turbid	sl. Turbid
2 Well Volumes	pH (standard units)	6.78	8.10	7.68	—	6.47
	Temperature (°F)	72.2	62.6	62.4	—	68.6
	Spec. Cond. (µmhos/cm)	330	540	393	—	630
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	Turbid	sl. Turbid	Turbid	—	sl. Turbid
3 Well Volumes	pH (standard units)	7.30	8.15	8.05	—	7.15
	Temperature (°F)	72.1	64.3	62.9	—	66.9
	Spec. Cond. (µmhos/cm)	326	547	393	—	558
	Dissolved Oxygen (ppm)[e]	—	—	—	—	—
	Water Appearance	Turbid	sl. Turbid	Turbid	—	sl. Turbid
4 Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					
Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					

CUMMINGS RITER CONSULTANTS, INC.

WELL PURGING RECORD

Project No: 93-132
Project Name: Blairsville
Field Eng/Geo: DPC / WAB

Well Number:	—	MW-3	MW-9A			
Purging Date:	—	9-21-95	9-21-95			
Purging Order:	—	16	17			
Well Riser Diameter:	inches	2.0	2.0			
Total Well Depth:	feet	22.5	23.2			
Static Water Level:	feet	9.15	19.5			
Reference Point[a]:	—	TOR	TOR			
Water Column Height:	feet	13.35	3.7			
Well Volume Calculation[b]:	—	×0.16	×0.16			
One Well Volume:	gallons	~2	~0.6			
Purging Time:	start/stop	10:00 / 10:30	1120 / 1140			
Well Vol. Removed:	—	3	3			
Total Vol. Removed:	gallons	~6	~2			
Purging Method[c]:	—	Disposable bailer →				
Purge Water Disposition[d]:	—	Contained on site →				

Proir to Purging:	pH (standard units)	7.36	8.98			
	Temperature (°F)	64.4	61.5			
	Spec. Cond. (µmhos/cm)	733	476			
	Dissolved Oxygen (ppm)[e]	–	–			
	Water Appearance	clear	clear			
1 Well Volume	pH (standard units)	7.54	9.02			
	Temperature (°F)	61.8	60.4			
	Spec. Cond. (µmhos/cm)	678	471			
	Dissolved Oxygen (ppm)[e]	–	–			
	Water Appearance	sl. Turbid	Turbid			
2 Well Volumes	pH (standard units)	7.41	8.59			
	Temperature (°F)	61.0	60.1			
	Spec. Cond. (µmhos/cm)	576	461			
	Dissolved Oxygen (ppm)[e]	–	–			
	Water Appearance	sl. Turbid	Turbid			
3 Well Volumes	pH (standard units)	7.68	8.68			
	Temperature (°F)	61.4	59.6			
	Spec. Cond. (µmhos/cm)	517	455			
	Dissolved Oxygen (ppm)[e]	–	–			
	Water Appearance	sl. Turbid	Turbid			
4 Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					
Well Volumes	pH (standard units)					
	Temperature (°F)					
	Spec. Cond. (µmhos/cm)					
	Dissolved Oxygen (ppm)[e]					
	Water Appearance					

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blanchville
SAMPLE ID: MW-9A
PROJECT NO.: 93-132
WELL NO.: MW-9A
SAMPLE DATE: 9 / 21 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 11:40 / 11:55
SAMPLE SEQUENCE NO.: 19
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 19.5 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.68
Specific Conductance	umho/cm	455
Water Temperature	°F	59.6
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2×40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Curtis Corp.
DELIVERED VIA: Pickup by lab
DATE: 9-22-95
WEATHER CONDITIONS: Partly Sunny ~70°
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-3
PROJECT NO.: 93-132
WELL NO.: MW-3
SAMPLE DATE: 9 / 21 / 95
SAMPLED BY: DAC/WAB
SAMPLE TIME (START/END): 1030 / 1045
SAMPLE SEQUENCE NO.: 18
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 9.15 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.68
Specific Conductance	umho/cm	517
Water Temperature	° F	61.4
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: slightly turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 liter	2	Y ☐	N ☐	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 24
FILTRATION METHOD: 0.45 micron QED Quick Lit
LABORATORY: Curie Corp.
DELIVERED VIA: Picked up by lab
DATE: 9-22-95
WEATHER CONDITIONS: Cloudy 65-70
COMMENTS: Duplicate (Dup-2) collected here

137-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blanchville
SAMPLE ID: MW-12A
PROJECT NO.: 93-132
WELL NO.: MW-12A
SAMPLE DATE: 9 / 21 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 0930 / 0945
SAMPLE SEQUENCE NO.: 17
SAMPLE COLLECTION EQUIPMENT: Dedicated Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 6.45 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.15
Specific Conductance	umho/cm	558
Water Temperature	°F	66.9
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: slightly turbid, some odor

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 × 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC, >	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total uranium	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Thorium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Cemco Corp
DELIVERED VIA: Picked up by lab
DATE: 9-22-95
WEATHER CONDITIONS: Cloudy ~ 65-70°
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-2
PROJECT NO.: 93-132
WELL NO.: MW-2
SAMPLE DATE: 9 / 20/21 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 13:40 / 11:00 (9-21-95)
SAMPLE SEQUENCE NO.: 16
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 9.30 / dry
RECHARGE TIME: ~ 18 hours
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.70
Specific Conductance	umho/cm	838
Water Temperature	° F	65.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: slightly turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☑		N ☐
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metal	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC,	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☐	Y ☑	HNO_3	N ☐
Total Uranium /	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium daughters			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED Quick Fill
LABORATORY: Cerne Corp
DELIVERED VIA: Pickup by air
DATE: 9-21/22/95
WEATHER CONDITIONS: cloudy 70s
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blaineville
SAMPLE ID: MW-13A
PROJECT NO.: 93-132
WELL NO.: MW-13A
SAMPLE DATE: 9 / 20 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): 13:10 / 13:25
SAMPLE SEQUENCE NO.: 15
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 9.81 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.05
Specific Conductance	umho/cm	393
Water Temperature	° F	62.9
Dissolved Oxygen	ppm	–

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 lit	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Nitrate, TOC,	1 lit	1	Y ☐	N ☑	Y ☐		N ☑
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 lit	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 lit	2	Y ☐	N ☑	Y ☐		N ☑
Total Radium	1 lit	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Chrom /	1 lit	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Iso. Isotopes			Y ☐	N ☑	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED Quick Lite
LABORATORY: Cerco Corp.
DELIVERED VIA: Picking by air
DATE: 9-21-95
WEATHER CONDITIONS: Cloudy, drizzle low 70s
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-11A
PROJECT NO.: 93-132
WELL NO.: MW-11A
SAMPLE DATE: 9 / 20 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): 1220 / 1235
SAMPLE SEQUENCE NO.: 14
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 10.25 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.15
Specific Conductance	umho/cm	547
Water Temperature	° F	64.3
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Slightly turbid.

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2×40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☐
Mercury & /B	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total cadmium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium /	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED Quick filter
LABORATORY: Cumis Corp.
DELIVERED VIA: Pickup by lab
DATE: 9-21-95
WEATHER CONDITIONS: Cloudy drizzle ~70°
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blansville
SAMPLE ID: MW-16A
PROJECT NO.: 93-132
WELL NO.: MW-16A
SAMPLE DATE: 9 / 20 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): 11:15 / 11:30
SAMPLE SEQUENCE NO.: 13
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 5.27' / –
RECHARGE TIME: –
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.30
Specific Conductance	umho/cm	326
Water Temperature	° F	72.1
Dissolved Oxygen	ppm	–

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
✓PH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium / Uranium Isotopes	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED Quick Flit
LABORATORY: Cimino Co.
DELIVERED VIA: Pickup by lab
DATE: 9-21-95
WEATHER CONDITIONS: Cloudy ~70°
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blansville
SAMPLE ID: MW-17A
PROJECT NO.: 93-132
WELL NO.: MW-17A
SAMPLE DATE: 9 / 20 / 95
SAMPLED BY: DPC/WBB
SAMPLE TIME (START/END): 1020 / 1035
SAMPLE SEQUENCE NO.: 12
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.05 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.86
Specific Conductance	umho/cm	490
Water Temperature	°F	60.3
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC,	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium /	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Cenric Corp.
DELIVERED VIA: Pickup by lab
DATE: 9-21-95
WEATHER CONDITIONS: Cloudy, ~65
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blanderville
SAMPLE ID: MW-15
PROJECT NO.: 93-132
WELL NO.: MW-15
SAMPLE DATE: 9 / 20 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): 09:15 / 09:30
SAMPLE SEQUENCE NO.: 11
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 40.02 /
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.85
Specific Conductance	umho/cm	493
Water Temperature	°F	55.8
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-20-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2×40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Curtis & Tompkins
DELIVERED VIA: Pickup by lab
DATE: 9-21-95
WEATHER CONDITIONS: Cloudy ~65°
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

ROJECT: (W) Blaysville
SAMPLE ID: EB-1
PROJECT NO.: 93-132
WELL NO.: —
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: BG / DC
SAMPLE TIME (START/END): 1600 / 1615
SAMPLE SEQUENCE NO.: 10
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon Bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): NA / NA
RECHARGE TIME: NA
MEASURED FROM ☐ TOC ☐ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	3.74
Specific Conductance	umho/cm	320
Water Temperature	°F	80.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9/18/95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: clear, odorless

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	40 ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC,	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium /	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Ceimic
DELIVERED VIA: Pickup by lab
DATE: 9/20/95
EATHER CONDITIONS: Sunny, high 70's
COMMENTS: QA Field Blank

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: GW-1
PROJECT NO.: 93-132
WELL NO.: —
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: RPC
SAMPLE TIME (START/END): 14.15 / 14.30
SAMPLE SEQUENCE NO.: 9
SAMPLE COLLECTION EQUIPMENT: Grab
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): NA / NA
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☐ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	12.3
Specific Conductance	umho/cm	355
Water Temperature	°	71.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☐
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☐
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium /	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick Filter"
LABORATORY: Ceramic Corp
DELIVERED VIA: Pick up by lab
DATE: 9-20-95
WEATHER CONDITIONS: Sunny 70s
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-8B
PROJECT NO.: 93-132
WELL NO.: MW-8B
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: DPC / WLB
SAMPLE TIME (START/END): 12:30 / 12:45
SAMPLE SEQUENCE NO.: 8
SAMPLE COLLECTION EQUIPMENT: Dedicated Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 13.85 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	9.97
Specific Conductance	umho/cm	364
Water Temperature	°F	61.9
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate / TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium / Uranium Isotopes	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Ceimic
DELIVERED VIA: Pickup by lab
DATE: 9-20-95
WEATHER CONDITIONS: Sunny ~65-70
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blansville
SAMPLE ID: MW-8A
PROJECT NO.: 93-132
WELL NO.: MW-8A
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 12:10 / 12:30
SAMPLE SEQUENCE NO.: 7
SAMPLE COLLECTION EQUIPMENT: Dedicated disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.80 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.80
Specific Conductance	umho/cm	574
Water Temperature	°F	62.3
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2×40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick Filter"
LABORATORY: Ceimic
DELIVERED VIA: Pickup by lab DATE: 9-20-95
WEATHER CONDITIONS: Sunny ~65
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blanchville
SAMPLE ID: MW-6B
PROJECT NO.: 93-132
WELL NO.: MW-6B
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 10:10 / 10:40
SAMPLE SEQUENCE NO.: 6
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.40 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.63
Specific Conductance	umho/cm	363
Water Temperature	°F	53.9
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2×40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 36
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Cimic
DELIVERED VIA: Pickup by lab
DATE: 9-20-95
WEATHER CONDITIONS: Sunny ~ 60-65
COMMENTS: MS/MSD collected at MW-6B

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-6A
PROJECT NO.: 93-132
WELL NO.: MW-6A
SAMPLE DATE: 9 / 19 / 95
SAMPLED BY: JPC / WAB
SAMPLE TIME (START/END): 09:10 / 09:30
SAMPLE SEQUENCE NO.: 5
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.02 / —
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.53
Specific Conductance	umho/cm	186
Water Temperature	°F	52.9
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 × 40 ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC,	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron
LABORATORY: Cimic
DELIVERED VIA: Pickup by lab
DATE: 9-20-95
WEATHER CONDITIONS: Sunny 55-60
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blansville
SAMPLE ID: MW-10B
PROJECT NO.: 93-132
WELL NO.: MW-10B
SAMPLE DATE: 9 / 18 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 15:15 / 15:30
SAMPLE SEQUENCE NO.: 4
SAMPLE COLLECTION EQUIPMENT: Disposable Teflon bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 12.29 /
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	8.30
Specific Conductance	umho/cm	240
Water Temperature	°F	56.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 x 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium/	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 24
FILTRATION METHOD: 0.45 micron QED "Quick filter"
LABORATORY: Cermic Corp
DELIVERED VIA: Pickup by Lab
DATE: 9-19-95
WEATHER CONDITIONS: Partly Sunny, windy 65-70°
COMMENTS: Duplicate Sample (Dup-1) taken here

137-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-10A
PROJECT NO.: 93-132
WELL NO.: MW-10A
SAMPLE DATE: 9 / 18 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): 14.30 /
SAMPLE SEQUENCE NO.: 3
SAMPLE COLLECTION EQUIPMENT: Disposable Bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 19.55 /
RECHARGE TIME: ——
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	6.70
Specific Conductance	umho/cm	116
Water Temperature	°F	61.4
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2 × 40ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Nitrate, TOC,	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α / β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☑
Total radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron GED "Quick Flex"
LABORATORY: Curie Corp.
DELIVERED VIA: Pickup by Lab
DATE: 9-19-95
WEATHER CONDITIONS: Partly Sunny ~65-70°
COMMENTS:

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-7A
PROJECT NO.: 93-132
WELL NO.: MW-7A
SAMPLE DATE: 9 / 18 / 19 / 95
SAMPLED BY: DPC / WAB
SAMPLE TIME (START/END): (9-18-95) 13:00 / 13:10 (9-19-95)
SAMPLE SEQUENCE NO.: 2
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 11.20 / dry
RECHARGE TIME: ~3 hours
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.80
Specific Conductance	umho/cm	269
Water Temperature	° F	64.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	40 ml	2	Y ☐	N ☑	Y ☑	HCl	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☐	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☐
Gross α/β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☐
Total radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron QED "Quick Filter"
LABORATORY: Crime Corp.
DELIVERED VIA: Pickup Lab
DATE: 9-19-95
WEATHER CONDITIONS: Partly cloudy 65-70
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT: Blairsville
SAMPLE ID: MW-7B
PROJECT NO.: 93-122
WELL NO.: MW-7B
SAMPLE DATE: 9 / 18 / 95
SAMPLED BY: DPC/WAB
SAMPLE TIME (START/END): 12.15 / 12.35
SAMPLE SEQUENCE NO.: 1
SAMPLE COLLECTION EQUIPMENT: Disposable bailer
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT): 47.80' / 75.0'
RECHARGE TIME: —
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	7.53
Specific Conductance	umho/cm	534
Water Temperature	°F	66.8
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 9-18-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Turbid

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
VOA	2x 40ml	2	Y ☐	N ☑	Y ☑	HCL	N ☐
TPH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Diss. Metals	500 ml	1	Y ☑	N ☐	Y ☑	HNO_3	N ☐
Total Metals	500 ml	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Nitrate, TOC	1 Liter	1	Y ☐	N ☑	Y ☑	H_2SO_4	N ☐
Ammonia			Y ☐	N ☐	Y ☐		N ☐
Fluoride, pH	1 Liter	1	Y ☐	N ☑	Y ☐		N ☑
Gross α/β	1 Liter	2	Y ☐	N ☑	Y ☐		N ☑
Total Radium	1 Liter	1	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Total Uranium	1 Liter	2	Y ☐	N ☑	Y ☑	HNO_3	N ☐
Uranium Isotopes			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS: 12
FILTRATION METHOD: 0.45 micron "Quick filter" QED
LABORATORY: Ceimic Corp.
DELIVERED VIA: Pickup by Lab
DATE: 9-19-95
WEATHER CONDITIONS: Partly Cloudy - 65-70°
COMMENTS:

f37-corp

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT Blairsville
PROJECT NO. 93-132
SAMPLE DATE 10 / 11 / 95
SAMPLE TIME (START/END) 12:30 / 12:32
SAMPLE COLLECTION EQUIPMENT Grab / Sampling Port
DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) 7.65' / —
RECHARGE TIME None

SAMPLE ID MW-12A Start
WELL NO. MW-12A
SAMPLED BY WAB/DES/DPC
SAMPLE SEQUENCE NO. 1
MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS

pH	Standard Units	6.30
Specific Conductance	umho/cm	597
Water Temperature	° F	68.2
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10-11-95
WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?	PRESERVED?
VOCs	40 ml	2	Y ☐ N ☑	Y ☑ HCl N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐
			Y ☐ N ☐	Y ☐ ___ N ☐

NUMBER OF CONTAINERS 2
FILTRATION METHOD None
LABORATORY Antech
DELIVERED VIA Drop off
DATE 10-12-95
WEATHER CONDITIONS Sunny Mid 70s
COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT Westinghouse - Blairsville

SAMPLE ID MW-12A 12 hour

PROJECT NO. 93132

WELL NO. MW-12A

SAMPLE DATE 10 / 12 / 95

SAMPLED BY WAB

SAMPLE TIME (START/END) 00:30 / 00:35

SAMPLE SEQUENCE NO. 2

SAMPLE COLLECTION EQUIPMENT Sampling Port

DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) 10.33' / —

RECHARGE TIME NA - Pumping

MEASURED FROM ☐ TOC ☑ TOR ☐ GS

FIELD MEASUREMENTS

pH	Standard Units	5.89
Specific Conductance	umho/cm	470
Water Temperature	°F	63.3
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☑ DATE 10-11-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?	
TCL-VOA	80ml	2	Y ☐	N ☑	Y ☑ HCl	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐
			Y ☐	N ☐	Y ☐	N ☐

NUMBER OF CONTAINERS 2

FILTRATION METHOD —

LABORATORY Antech LTD.

DELIVERED VIA Drop off

DATE 10-12-95

WEATHER CONDITIONS ~40's

COMMENTS

CUMMINGS RITER CONSULTANTS, INC.

WATER SAMPLE COLLECTION REPORT

PROJECT Westinghouse - Blairsville

SAMPLE ID MW-12A End

PROJECT NO. 93-132

WELL NO. MW-12A

SAMPLE DATE 10 / 12 / 95

SAMPLED BY WAB

SAMPLE TIME (START/END) 16.20 / 16:25

SAMPLE SEQUENCE NO. 3

SAMPLE COLLECTION EQUIPMENT sampling PORT

DEPTH TO WATER PRIOR TO PURGING/SAMPLING (FT) 10.69' / —

RECHARGE TIME NA - pumping

MEASURED FROM ☐ TOC ☒ TOR ☐ GS

FIELD MEASUREMENTS		
pH	Standard Units	5.44
Specific Conductance	umho/cm	460
Water Temperature	F°	68.6F
Dissolved Oxygen	ppm	—

METER CALIBRATION PERFORMED? N ☐ Y ☒ **DATE** 10-11-95

WATER APPEARANCE, IMMISCIBLE PHASES OR ODORS: Clear

SAMPLE TYPES COLLECTED

PARAMETER	VOLUME	# CONTAINERS	FIELD FILTERED?		PRESERVED?		
TCL-VOA	80ml	2	Y ☐	N ☒	Y ☒	HCl	N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐
			Y ☐	N ☐	Y ☐		N ☐

NUMBER OF CONTAINERS 2

FILTRATION METHOD NA

LABORATORY Antech Ltd.

DELIVERED VIA HAND

DATE 10-12-95

WEATHER CONDITIONS Sunny 70-80°

COMMENTS

APPENDIX G

LABORATORY ANALYTICAL DATA

Antech Ltd.

One Triangle Drive • Export, Pennsylvania 15632 • Phone: (412) 733-1161 • Fax: (412) 327-7793

October 27, 1995

Mr. William Baughman
Cummings/Riter Consultants, Inc
339 Haymaker Road
Parkway Building, Suite 201
Monroeville, PA 15146

Water Characterization
93-132; Blairsville, PA
Antech Ltd. Project No. 95-4645

Dear Mr. Baughman:

Enclosed are analytical results for samples submitted by Cummings/Riter Consultants, Inc. Samples were received on October 12, 1995 and logged in for analysis on October 13, 1995.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data table. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications. If you have any questions, please call me.

Sincerely,

Randal T. Hill
Organic Chemistry Manager

RTH:aeb

Enclosures

ANTECH LTD.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

ANTECH LTD.: 95-4645
CLIENT: 93-132

B: SAMPLE IDENTIFICATIONS:

Antech ID	Client ID	Antech ID	Client ID
9510-1666	MW-12A Start	9510-1667	MW-12A 12 Hours
9510-1668	MW-12A 12 End	9510-1669	TB-1

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: ORGANICS:

1. VOLATILES:
The detection limits for the samples have been elevated as the result of dilutions required for the high concentration of target analytes present.

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.

Table 1
Volatile Organic Analysis
Target Compound List/EPA Method 8260(1)
Cummings/Riter Consultants, Inc.
Antech Ltd. Project No. 95-4645
Water Characterization; 93-132
Blairsville, PA

Parameter	CAS(2) Number	Units	Sample Identification 9510-1666 MW-12A Start (10/11/95)	9510-1667 MW-12A 12 Hours (10/12/95)	9510-1668 MW-12A 12 End (10/12/95)
Acetone	67-64-1	µg/l	<2000	<1000	<1000
Benzene	71-43-2	µg/l	<100	<50	<50
Bromodichloromethane	75-27-4	µg/l	<100	<50	<50
Bromoform	75-25-2	µg/l	<100	<50	<50
Bromomethane	74-83-9	µg/l	<200	<100	<100
2-Butanone (MEK)	78-93-3	µg/l	<200	<100	<100
Carbon disulfide	75-15-0	µg/l	<100	<50	<50
Carbon tetrachloride	56-23-5	µg/l	<100	<50	<50
Chlorobenzene	108-90-7	µg/l	<100	<50	<50
Chlorodibromomethane	124-48-1	µg/l	<100	<50	<50
Chloroethane	75-00-3	µg/l	<200	<100	<100
Chloromethane	74-87-3	µg/l	<200	<100	<100
Chloroform	67-66-3	µg/l	<100	<50	<50
1,1-Dichloroethane	75-34-3	µg/l	<100	<50	<50
1,2-Dichloroethane	107-06-2	µg/l	<100	<50	<50
1,1-Dichloroethene	75-35-4	µg/l	<100	<50	<50
cis-1,2-Dichloroethene	156-59-2	µg/l	<100	<50	<50
trans-1,2-Dichloroethene	156-60-5	µg/l	<100	<50	<50
1,2-Dichloropropane	78-87-5	µg/l	<100	<50	<50
cis-1,3-Dichloropropene	10061-01-5	µg/l	<100	<50	<50
trans-1,3-Dichloropropene	10061-02-6	µg/l	<100	<50	<50
Ethylbenzene	100-41-4	µg/l	<100	<50	<50
2-Hexanone	591-78-6	µg/l	<1000	<500	<500
Methylene chloride	75-09-2	µg/l	<100	<50	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/l	<1000	<500	<500
Styrene	100-42-5	µg/l	<100	<50	<50
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	<100	<50	<50
Tetrachloroethene	127-18-4	µg/l	<100	<50	<50
Toluene	108-88-3	µg/l	<100	<50	<50
1,1,1-Trichloroethane	71-55-6	µg/l	440	3600	1800
1,1,2-Trichloroethane	79-00-5	µg/l	<100	<50	<50
Trichloroethene	79-01-6	µg/l	2500	840	940
Vinyl chloride	75-01-4	µg/l	<200	<100	<100
Xylenes (Total)	1330-20-7	µg/l	<100	<50	<50

See footnotes at end of table.

Table 1
(Continued)

Parameter	CAS[2] Number	Units	Sample Identification 9510-1669 TB-1 (10/11/95)	Sample Identification 9510-1670 Method Blank (10/13/95)
Acetone	67-64-1	µg/l	<100	<100
Benzene	71-43-2	µg/l	<5.0	<5.0
Bromodichloromethane	75-27-4	µg/l	<5.0	<5.0
Bromoform	75-25-2	µg/l	<5.0	<5.0
Bromomethane	74-83-9	µg/l	<10	<10
2-Butanone (MEK)	78-93-3	µg/l	<10	<10
Carbon disulfide	75-15-0	µg/l	<5.0	<5.0
Carbon tetrachloride	56-23-5	µg/l	<5.0	<5.0
Chlorobenzene	108-90-7	µg/l	<5.0	<5.0
Chlorodibromomethane	124-48-1	µg/l	<5.0	<5.0
Chloroethane	75-00-3	µg/l	<10	<10
Chloromethane	74-87-3	µg/l	<10	<10
Chloroform	67-66-3	µg/l	<5.0	<5.0
1,1-Dichloroethane	75-34-3	µg/l	<5.0	<5.0
1,2-Dichloroethane	107-06-2	µg/l	<5.0	<5.0
1,1-Dichloroethene	75-35-4	µg/l	<5.0	<5.0
cis-1,2-Dichloroethene	156-59-2	µg/l	<5.0	<5.0
trans-1,2-Dichloroethene	156-60-5	µg/l	<5.0	<5.0
1,2-Dichloropropane	78-87-5	µg/l	<5.0	<5.0
cis-1,3-Dichloropropene	10061-01-5	µg/l	<5.0	<5.0
trans-1,3-Dichloropropene	10061-02-6	µg/l	<5.0	<5.0
Ethylbenzene	100-41-4	µg/l	<5.0	<5.0
2-Hexanone	591-78-6	µg/l	<50	<50
Methylene chloride	75-09-2	µg/l	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/l	<50	<50
Styrene	100-42-5	µg/l	<5.0	<5.0
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	<5.0	<5.0
Tetrachloroethene	127-18-4	µg/l	<5.0	<5.0
Toluene	108-88-3	µg/l	<5.0	<5.0
1,1,1-Trichloroethane	71-55-6	µg/l	<5.0	<5.0
1,1,2-Trichloroethane	79-00-5	µg/l	<5.0	<5.0
Trichloroethene	79-01-6	µg/l	<5.0	<5.0
Vinyl chloride	75-01-4	µg/l	<10	<10
Xylenes (Total)	1330-20-7	µg/l	<5.0	<5.0

(1) U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2) CAS = Chemical Abstracts Services.

CUMMINGS RITER CONSULTANTS, INC.

Chain of Custody Record

Page 1 of 1

Lab Quote # 95-4645

Project Name: Westinghouse Blairsville
Project Location: Blairsville, PA
Project Number: 93-132
Sampled By: (print) Dan Cusick, William Baughman

Results To: Bill Baughman
Company: Cummings/Rite Consult.
Address: 339 Haymaker Road
Monroeville, PA 15146
Phone: 412-373-5240

Invoice To: Same as Results
Company:
Address:
Phone:

Lab ID	Sample Identification	Date	Time	Grab	Composite	Sample Matrix	No. of Bottles	Analyses: TCL VOA										Preservatives: HCL	HNO3	H2SO4	NaOH	Remarks
10-1666	MW-12A START	10-11-95	12:30	X		water	2	X										X				
10-1669	TB-1	–	–	–	–	water	2	X										X				TRIP BLANK
10-1667	MW-12A 12-HOURS	10-12-95	12:30	X	–	WATER	2	X										X				
10-1668	MW-12A END	10-12-95	16:20	X	–	WATER	2	X										X				

Turnaround Time Required:
Normal X
Rush

Sample Disposal:
Return to Client
Disposal by Lab X

Known Hazard (flammable/toxic):
Yes (comment below)
No X

	Date	Time		Date	Time
1. Relinquished By: (signature) William R. Baughman	10/12/95	16:50	1. Received By: (signature) A. Stater	10-12-95	6:50
2. Relinquished By: (signature)			2. Received By: (signature)		
3. Relinquished By: (signature)			3. Received By: (signature)		

Special Instructions/Comments:

Sample Condition Upon Receipt:

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

October 16, 1995

Mr. Bill Baughman
Cummings/Riter Consultants, Inc.
339 Haymaker Road
Parkway Building/Suite 201
Monroeville, PA 15146

Dear Mr. Baughman:

Enclosed are the results for the analyses performed in support of the Cummings Riter Consultants, Blairsville - Westinghouse Project No. 93-132. The samples were taken from the field on September 18th, 19th, and 20th, 1995 and received at Ceimic Corporation on September 20th, 21st, and 22nd, 1995.

These samples are reported under the Ceimic Project Number 950726, which can be referenced when inquiring about this project.

If you have any questions or concerns regarding this data, please call me at the telephone number listed below.

Sincerely,

Neil Pothier, Ph.D.
Laboratory Manager

NP/jmf

Enclosures

10 Dean Knauss Drive, Narragansett, RI 02882 • Tel: (401) 782-8900 • Fax: (401) 782-8905

VOLATILE ANALYSES

CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V20924-B1

Date Sample Analyzed: 09/24/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]loroethane	ND	10
Methylene Chloride	13	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KF

Approved by: [signature]

10 Dean Knauss Drive, Narragansett, RI 02882 • Tel: (401) 782-8900 • Fax: (401) 782-8905

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V20924-B1

Date Sample Analyzed: 09/24/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
',2,2-Tetrachloroethane	ND	5
.oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	102	86 - 115

Reported by: RK

Approved by: MP

10 Dean Knauss Drive, Narragansett, RI 02882 • Tel: (401) 782-8900 • Fax: (401) 782-8905

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V20925-B2

Date Sample Analyzed: 09/25/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KF

Approved by: [signature]

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V20925-B2

Date Sample Analyzed: 09/25/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	99	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	95	86 - 115

Reported by: KK

Approved by: MP

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CEIMIC
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METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V20927-B3

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 09/28/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KR

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V20927-B3

Date Sample Analyzed: 09/28/95

Matrix: Aqueous

Concentration in: $\mu g/L$ (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	106	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	103	86 - 115

Reported by: KK

Approved by: MP

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METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: V50926-B1

Date Sample Analyzed: 09/26/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V50926-B1

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 09/26/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
uene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	97	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KK

Approved by: [signature]

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METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V50927-B2

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 09/27/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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Corporation

"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V50927-B2

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 09/27/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
uene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	95	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KL

Approved by: [signature]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-7A

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-01

Date Sample Analyzed: 09/24/95

Associated Method Blank: V20924-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
oroethane	ND	10
Methylene Chloride	ND	5
Acetone	16	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-7A

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-01

Date Sample Analyzed: 09/24/95

Associated Method Blank: V20924-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	111	76 - 114
Toluene-d8	102	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-7B

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-02

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MP

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-7B

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-02

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	98	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-10A

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-03

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
ıyl Chloride	ND	10
..ıloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-10A

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-03

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	103	76 - 114
Toluene-d8	97	88 - 110
Bromofluorobenzene	96	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-10B

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-04

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]loroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-10B

Laboratory ID: 950726-04

Date Sampled: 09/18/95

Date Sample Analyzed: 09/25/95

Date Sample Received: 09/20/95

Associated Method Blank: V20925-B2

Matrix: Aqueous

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	100	76 - 114
Toluene-d8	97	88 - 110
Bromofluorobenzene	97	86 - 115

Reported by: KW

Approved by: MO

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: DUP-1 (MW-10B)

Laboratory ID: 950726-05

Date Sampled: 09/18/95

Date Sample Analyzed: 09/25/95

Date Sample Received: 09/20/95

Associated Method Blank: V20925-B2

Matrix: Aqueous

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: DUP-1

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-05

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	106	76 - 114
Toluene-d8	97	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: [illegible]

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Corporation

"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP-1

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-06

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	5	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KIC

Approved by: MP

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP-1

Date Sampled: 09/18/95

Date Sample Received: 09/20/95

Matrix: Aqueous

Laboratory ID: 950726-06

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	99	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KV

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP_BLANK_2

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-07

Date Sample Analyzed: 09/24/95

Associated Method Blank: V20924-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
oroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MO

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP_BLANK_2

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-07

Date Sample Analyzed: 09/24/95

Associated Method Blank: V20924-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
[illegible]uene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	113	76 - 114
Toluene-d8	100	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KK

Approved by: MP

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: EB-1

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-08

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]loroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: EB-1

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-08

Date Sample Analyzed: 09/25/95

Associated Method Blank: V20925-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	103	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: GW-1

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-09

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
ıyl Chloride	ND	10
..ıloroethane	ND	10
Methylene Chloride	5	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	190	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: GW-1

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-09

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	100	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-6A

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-11

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
hloroethane	ND	10
Methylene Chloride	6	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-6A

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-11

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	99	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	97	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-12

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
oroethane	ND	10
Methylene Chloride	7	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: MO

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-12

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	100	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KK

Approved by: MO

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE SUMMARY
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Date Sampled: 09/19/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Matrix Spike ID: 950726-12

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Spike Compound	Matrix Spike Recovery(%)	Matrix Spike Duplicate Recovery(%)	RPD(%)	QC Limits(%)* RPD	QC Limits(%)* Recovery
1,1-Dichloroethene	78	75	5	14	61 - 145
Trichloroethene	103	107	3	14	71 - 120
zene	99	101	2	11	76 - 127
oluene	102	106	4	13	76 - 125
Chlorobenzene	108	110	2	13	75 - 130

* These limits are provided for advisory purposes.

Surrogate Spike Recovery

Surrogate Compound	Matrix Spike Recovery(%)	Matrix Spike Duplicate Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	101	76 - 114
Toluene-d8	102	101	88 - 110
Bromofluorobenzene	100	100	86 - 115

Reported by: KK

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-8A

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-13

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
Cnloroethane	ND	10
Methylene Chloride	6	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	6	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-8A

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-13

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	102	76 - 114
Toluene-d8	102	88 - 110
Bromofluorobenzene	101	86 - 115

Reported by: KK

Approved by: MP

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-8B

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-14

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	6	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KL

Approved by: MP

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-8B

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: 950726-14

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-15

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-15

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
nyl Chloride	ND	10
ɔhloroethane	ND	10
Methylene Chloride	6	5
Acetone	11	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	5	5
1,2-Dichloroethene (total)	120	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	9	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	1100*	50
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KL

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-15

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-15

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
[illegible],2,2-Tetrachloroethane	ND	5
[illegible]luene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected
* Concentration was determined from a diluted analysis (1:10).

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	105	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	106	86 - 115

Reported by: KK

Approved by: [illegible]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-17A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-16

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]loroethane	ND	10
Methylene Chloride	10	5
Acetone	13	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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Corporation

"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-17A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-16

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	101	88 - 110
Bromofluorobenzene	96	86 - 115

Reported by: KK

Approved by:

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-16A

Laboratory ID: 950726-17

Date Sampled: 09/20/95

Date Sample Analyzed: 09/27/95

Date Sample Received: 09/22/95

Associated Method Blank: V50926-B1

Matrix: Aqueous

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
Cnloroethane	ND	10
Methylene Chloride	6	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-16A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-17

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
ıoluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	106	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	102	86 - 115

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-11A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-18

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50926-B1

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	18	10
oroethane	ND	10
Methylene Chloride	7	5
Acetone	16	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	6	5
1,1-Dichloroethane	60	5
1,2-Dichloroethene (total)	33	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	380 *	25
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	100	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KL

Approved by: [illegible]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-11A

Laboratory ID: 950726-18

Date Sampled: 09/20/95

Date Sample Analyzed: 09/27/95

Date Sample Received: 09/22/95

Associated Method Blank: V50926-B1

Matrix: Aqueous

Dilution Factor: 1

Concentration in: µg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected
* Concentration was determined from a diluted analysis (1:5).

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	100	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KL

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-13A

Laboratory ID: 950726-19

Date Sampled: 09/20/95

Date Sample Analyzed: 09/27/95

Date Sample Received: 09/22/95

Associated Method Blank: V50927-B2

Matrix: Aqueous

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
hloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	21	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	1700*	50
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-13A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-19

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected
* Concentration was determined from a diluted analysis (1:10).

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	102	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KL

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-2

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-20

Date Sample Analyzed: 09/28/95

Associated Method Blank: V20927-B3

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	ND	5
Acetone	14	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	15	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	37	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	26	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-2

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-20

Date Sample Analyzed: 09/28/95

Associated Method Blank: V20927-B3

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
ıoluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: [signature]

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP_BLANK-3

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-21

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
[illegible]yl Chloride	ND	10
[illegible]oroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP_BLANK-3

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-21

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
uene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	102	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	100	86 - 115

Reported by: KIC

Approved by: [signature]

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"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
VOLATILE BLANK SPIKE/BLANK SPIKE DUPLICATE
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank Spike ID: VLCS01

Date Sample Analyzed: 09/25/95

Matrix: Aqueous

Associated Method Blank: V20925-B2

Concentration: μg/L (ppb)

Spike Compound	Spike Added	Blank Spike Recovery(%)	Blank Spike Duplicate Recovery(%)	RPD(%)	QC Limits(%)* RPD	QC Limits(%)* Recovery
1,1-Dichloroethene	50	96	89	7	20	63 - 131
Trichloroethene	50	116	106	9	20	78 - 140
Benzene	50	98	91	7	20	66 - 131
Toluene	50	98	96	3	20	66 - 134
lorobenzene	50	108	104	3	20	72 - 148

* These limits are provided for advisory purposes.

Surrogate Spike Recovery

Surrogate Compound	Blank Spike Recovery(%)	Blank Spike Duplicate Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	103	76 - 114
Toluene-d8	94	98	88 - 110
Bromofluorobenzene	96	100	86 - 115

ported by: KIC

Approved by: [signature]

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TPH ANALYSES

CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-7B
Date Sampled: 09/18/95
Date Sample Received: 09/20/95
Matrix: Aqueous

Laboratory ID: 950726-02
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
l Oil #2	ND	1.0
el Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	76	40 - 160

* These limits are provided for advisory purposes.

orted by: _____ Approved by: _____

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-10A
Date Sampled: 09/18/95
Date Sample Received: 09/20/95
Matrix: Aqueous

Laboratory ID: 950726-03
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
l Oil #2	ND	1.0
el Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	75	40 - 160

* These limits are provided for advisory purposes.

orted by: _____ Approved by: HL

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-10B
Date Sampled: 09/18/95
Date Sample Received: 09/20/95
Matrix: Aqueous

Laboratory ID: 950726-04
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
[illegible] Oil #2	ND	1.0
[illegible] Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	85	40 - 160

* These limits are provided for advisory purposes.

[illegible]rted by: _____ Approved by: HC

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: DUP-1
Date Sampled: 09/18/95
Date Sample Received: 09/20/95
Matrix: Aqueous

Laboratory ID: 950726-05
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
I Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	77	40 - 160

* These limits are provided for advisory purposes.

R ted by: _____ Approved by: _____

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: EB-1
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-08
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	116	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: HL

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: GW-1
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-09
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	117	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: HC

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-7A
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-10
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	115	40 - 160

* These limits are provided for advisory purposes.

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-6A
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-11
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
F[illegible] Oil #2	ND	1.0
F[illegible] Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	121	40 - 160

* These limits are provided for advisory purposes.

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-6B
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-12
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
[illegible] Oil #2	ND	1.0
[illegible] Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	111	40 - 160

* These limits are provided for advisory purposes.

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Approved by: HL

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MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Percent Solids: 100

Laboratory ID: 950726-12MS

Date Sample Extracted: 09/25/95

Date Sample Analyzed: 10/01/95

Associated Method Blank: F0925-B5

Final Extract Volume (mL):1.0

Dilution Factor: 1

Concentration in: mg/L (ppm)

Target Analyte	Spike Added	Sample Concentration	Matrix Spike Concentration	Matrix Spike Recovery(%)
Diesel Range Organics	0.30	ND	0.21J	70

Target Analyte	Matrix Spike Duplicate Concentration	Matrix Spike Duplicate Recovery(%)	RPD(%)	QC Limits(%)*	
				RPD	Recovery
Diesel Range Organics	0.22J	73	4.7	20	40 - 160

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Matrix Spike Recovery(%)	Matrix Spike Duplicate Recovery(%)	QC Limits(%)*
p-terphenyl-d14	74	76	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: _____

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-8A
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-13
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	111	40 - 160

* These limits are provided for advisory purposes.

Report by: _____ Approved by: _____

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-8B
Date Sampled: 09/19/95
Date Sample Received: 09/21/95
Matrix: Aqueous

Laboratory ID: 950726-14
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
F[illegible] Oil #2	ND	1.0
F[illegible] Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	75	40 - 160

* These limits are provided for advisory purposes.

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-15
Date Sampled: 09/20/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950726-15
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	115	40 - 160

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-17A
Date Sampled: 09/20/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950726-16
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	112	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: _____

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-16A
Date Sampled: 09/20/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950726-17
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	105	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: B Approved by: MC

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-11A
Date Sampled: 09/20/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950726-18
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 10/01/95
Associated Method Blank: F0925-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	122	40 - 160

* These limits are provided for advisory purposes.

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TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-13A
Date Sampled: 09/20/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950726-19
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/05/95
Associated Method Blank: F0927-B4
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
F[illegible] Oil #2	ND	1.0
F[illegible] Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	106	40 - 160

* These limits are provided for advisory purposes.

Re[illegible]ed by: _____ Approved by: _____

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METHOD BLANK
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Blank ID: F0925-B5
Matrix: Aqueous

Ceimic Project: 950726
Date Sample Extracted: 09/25/95
Date Sample Analyzed: 09/30/95
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	73	40 - 160

* These limits are provided for advisory purposes.

R ted by: _____ Approved by: _____

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METHOD BLANK
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Blank ID: F0927-B4
Matrix: Aqueous

Ceimic Project: 950726
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/05/95
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	71	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: HL

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LABORATORY CONTROL SUMMARY
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants

Blank Spike ID: F0925-LCS5

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 09/30/95

Date Sample Prepared: 09/25/95

Associated Method Blank: F0925-B5

Concentration in: mg/L (ppm)

Target Analyte	Spike Added	Blank Spike Result	Blank Spike Recovery(%)	QC Limits(%)*
Diesel Range Organics	0.30	0.29J	97	40 - 160

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	82	40 - 160

* These limits are provided for advisory purposes.

Repo ' by: _____ Approved by: _____

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LABORATORY CONTROL SUMMARY
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants

Blank Spike ID: F0927-LCS4

Matrix: Aqueous

Ceimic Project: 950726

Date Sample Analyzed: 10/05/95

Date Sample Prepared: 09/27/95

Associated Method Blank: F0927-B4

Concentration in: mg/L (ppm)

Target Analyte	Spike Added	Blank Spike Result	Blank Spike Recovery(%)	QC Limits(%)*
Diesel Range Organics	0.30	0.18J	60	40 - 160

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	67	40 - 160

* These limits are provided for advisory purposes.

Rep d by: _____ Approved by: HL

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METAL ANALYSES

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METHOD BLANK
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: PBW

Date Analysis Completed: 10/13/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	ND	0.01
Beryllium	1005	ND	0.01
[illegible]nium	1005	ND	0.01
Calcium	1005	ND	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	ND	0.1
Lead	1005	ND	0.005
Magnesium	1005	ND	0.5
Manganese	1005	ND	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	ND	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	ND	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

I rted by: Approved by:

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-7A

Laboratory ID: 950726-01

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	1.5	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.01	0.01
[illegible]um	1005	0.11	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	21.1	0.5
Chromium	1005	ND	0.02
Cobalt	1005	0.03	0.02
Copper	1005	ND	0.02
Iron	1005	19.7	0.1
Lead	1005	ND	0.005
Magnesium	1005	7.4	0.5
Manganese	1005	1.77	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	1.5	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	9.5	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.06	0.02

ND = Not Detected

[illegible]orted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-7B

Laboratory ID: 950726-02

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	53.8	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.02	0.01
P[illegible]um	1005	1.63	0.01
L[illegible]llium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	57.3	0.5
Chromium	1005	0.07	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	30.0	0.1
Lead	1005	0.059	0.005
Magnesium	1005	15.0	0.5
Manganese	1005	0.82	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.06	0.04
Potassium	1005	4.9	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	105	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.18	0.02

ND = Not Detected

F[illegible]ted by: Thuy Lee

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-10A

Laboratory ID: 950726-03

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	9.0	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]ium	1005	0.12	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	6.9	0.5
Chromium	1005	0.02	0.02
Cobalt	1005	0.05	0.02
Copper	1005	ND	0.02
Iron	1005	17.8	0.1
Lead	1005	0.013	0.005
Magnesium	1005	5.8	0.5
Manganese	1005	0.45	0.01
Mercury	1004	0.0013	0.0002
Nickel	1005	ND	0.04
Potassium	1005	2.3	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	4.9	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.06	0.02

ND = Not Detected

I rted by: Tammy Cole

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-10B

Laboratory ID: 950726-04

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]ium	1005	0.46	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	42.5	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	1.1	0.1
Lead	1005	ND	0.005
Magnesium	1005	7.1	0.5
Manganese	1005	0.41	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	1.0	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	3.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

[illegible]rted by: [illegible]

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: DUP-1

Laboratory ID: 950726-05

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]ium	1005	0.40	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	37.9	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	1.0	0.1
Lead	1005	ND	0.005
Magnesium	1005	6.3	0.5
Manganese	1005	0.37	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	0.8	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	2.7	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

[illegible]rted by: Jimmy Lee

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: EB-1

Laboratory ID: 950726-08

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	ND	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	ND	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	ND	0.1
Lead	1005	ND	0.005
Magnesium	1005	ND	0.5
Manganese	1005	ND	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	ND	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	ND	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reviewed by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: GW-1

Laboratory ID: 950726-09

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	0.7	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]rium	1005	0.06	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	19.9	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	0.4	0.1
Lead	1005	ND	0.005
Magnesium	1005	2.7	0.5
Manganese	1005	0.28	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	1.1	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	6.3	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

[illegible]rted by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: MW-6A

Laboratory ID: 950726-11

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	39.9	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.02	0.01
[illegible]ium	1005	0.44	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	18.5	0.5
Chromium	1005	0.12	0.02
Cobalt	1005	0.04	0.02
Copper	1005	0.07	0.02
Iron	1005	69.5	0.1
Lead	1005	0.071	0.005
Magnesium	1005	8.7	0.5
Manganese	1005	1.46	0.01
Nickel	1005	0.06	0.04
Potassium	1005	5.7	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	12.6	0.5
Thallium	1005	ND	0.01
Vanadium	1005	0.09	0.05
Zinc	1005	0.27	0.02

ND = Not Detected

[illegible]rted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: 950726-12

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.51	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	41.3	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	0.1	0.1
Lead	1005	ND	0.005
Magnesium	1005	9.3	0.5
Manganese	1005	0.08	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	1.0	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	35.9	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reviewed by: _____ Approved by: _____

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SPIKE SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: 950726-12Spk

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Sample Result	Predigest Spike Added	Spiked Sample Result	Recovery(%) Predigest Spike	QC Limits	Post Digest Spike
Aluminum	ND	2.00	1.92	91	75 - 125	NR
Antimony	ND	0.500	0.431	87	75 - 125	NR
Arsenic	ND	0.0400	0.0419	102	75 - 125	NR
Barium	0.51	2.00	2.26	88	75 - 125	NR
Beryllium	ND	0.0500	0.0454	90	75 - 125	NR
Cadmium	ND	0.0500	0.0480	96	75 - 125	NR
Chromium	ND	0.200	0.191	92	75 - 125	NR
Cobalt	ND	0.500	0.441	88	75 - 125	NR
Copper	ND	0.250	0.225	87	75 - 125	NR
Iron	0.12	1.00	1.02	91	75 - 125	NR
Lead	ND	0.0200	0.0181	96	75 - 125	NR
Manganese	0.08	0.500	1.00	185	75 - 125	95.4
Mercury	ND	0.00100	0.000705	70	75 - 125	NR
Nickel	ND	0.500	0.452	90	75 - 125	NR
Selenium	ND	0.0100	ND	80	75 - 125	NR
Silver	ND	0.0500	0.0430	85	75 - 125	NR
Thallium	ND	0.0500	0.0502	98	75 - 125	NR
Vanadium	ND	0.500	0.447	89	75 - 125	NR
Zinc	ND	0.500	0.453	89	75 - 125	NR

ND = Not Detected
NR = Not Required

Reported by: _____ Approved by: _____

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"Analytical Chemistry for Environmental Management"

DUPLICATE SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: 950726-12Dup

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Sample Result	Duplicate Result	RPD(%)	QC Limit(%)
Aluminum	ND	ND	**	±0.2
Antimony	ND	ND	**	±0.2
Arsenic	ND	ND	**	±0.01
Barium	0.513	0.582	12	20
Beryllium	ND	ND	**	±0.01
[illegible]mium	ND	ND	**	±0.01
Calcium	41.3	46.4	12	20
Chromium	ND	ND	**	±0.02
Cobalt	ND	ND	**	±0.02
Copper	ND	ND	**	±0.02
Iron	0.118	0.127	**	±0.1
Lead	ND	ND	**	±0.005
Magnesium	9.3	10.5	12	20
Manganese	0.0783	0.0874	11	20
Mercury	ND	ND	**	±0.0002
Nickel	ND	ND	**	±0.04
Potassium	1.01	1.08	**	±0.5
Selenium	ND	ND	**	±0.01
Silver	ND	ND	**	±0.01
Sodium	35.9	40.6	12	20
Thallium	ND	ND	**	±0.01
Vanadium	ND	ND	**	±0.05
Zinc	ND	ND	**	±0.02

ND = Not Detected
RPD = Relative Percent Difference
** For these analytes the sample concentration was less than five times the quantitation limit.
In these cases the control limit is ± the quantitation limit.

[illegible]rted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-8A

Laboratory ID: 950726-13

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	61.3	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.03	0.01
[illegible]ium	1005	1.06	0.01
[illegible]yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	26.2	0.5
Chromium	1005	0.12	0.02
Cobalt	1005	0.14	0.02
Copper	1005	0.10	0.02
Iron	1005	136	0.1
Lead	1005	0.070	0.005
Magnesium	1005	14.6	0.5
Manganese	1005	5.31	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.18	0.04
Potassium	1005	7.5	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	7.6	0.5
Thallium	1005	ND	0.01
Vanadium	1005	0.14	0.05
Zinc	1005	0.42	0.02

ND = Not Detected

F rted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-8B

Laboratory ID: 950726-14

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.81	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	35.1	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	1.7	0.1
Lead	1005	ND	0.005
Magnesium	1005	5.6	0.5
Manganese	1005	0.11	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	0.9	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	12.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reviewed by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-15

Laboratory ID: 950726-15

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	1.2	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.45	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	44.2	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	3.9	0.1
Lead	1005	ND	0.005
Magnesium	1005	34.8	0.5
Manganese	1005	2.32	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.06	0.04
Potassium	1005	3.3	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	20.5	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: _____

Approved by: _____

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-17A

Laboratory ID: 950726-16

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	79.7	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.04	0.01
Barium	1005	0.94	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	20.4	0.5
Chromium	1005	0.25	0.02
Cobalt	1005	0.21	0.02
Copper	1005	0.14	0.02
Iron	1005	360	0.1
Lead	1005	0.098	0.005
Magnesium	1005	25.2	0.5
Manganese	1005	15.9	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.32	0.04
Potassium	1005	13.0	0.5
Selenium	1005	ND	0.01
Silver	1005	0.02	0.01
Sodium	1005	3.6	0.5
Thallium	1005	0.02	0.01
Vanadium	1005	0.21	0.05
Zinc	1005	0.62	0.02

ND = Not Detected

Reported by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-16A

Laboratory ID: 950726-17

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	22.9	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.01	0.01
Barium	1005	0.19	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	9.3	0.5
Chromium	1005	0.03	0.02
Cobalt	1005	0.04	0.02
Copper	1005	0.03	0.02
Iron	1005	48.2	0.1
Lead	1005	0.022	0.005
Magnesium	1005	6.0	0.5
Manganese	1005	1.81	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.06	0.04
Potassium	1005	3.7	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	10.8	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.15	0.02

ND = Not Detected

Reviewed by: Thomas Dale

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-11A

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-18

Date Analysis Completed: 10/13/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	7.0	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.28	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	40.8	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	34.5	0.1
Lead	1005	0.008	0.005
Magnesium	1005	15.2	0.5
Manganese	1005	0.82	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	2.8	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	23.8	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.05	0.02

ND = Not Detected

Reported by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-13A

Laboratory ID: 950726-19

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	9.2	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.18	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	32.0	0.5
Chromium	1005	0.03	0.02
Cobalt	1005	ND	0.02
Copper	1005	0.02	0.02
Iron	1005	50.8	0.1
Lead	1005	0.013	0.005
Magnesium	1005	8.2	0.5
Manganese	1005	0.71	0.01
Mercury	1004	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	2.6	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	18.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.09	0.02

ND = Not Detected

R ted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-2

Date Sampled: 09/20/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950726-20

Date Analysis Completed: 10/13/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	5.4	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.12	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	106	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	9.4	0.1
Lead	1005	ND	0.005
Magnesium	1005	13.2	0.5
Manganese	1005	1.96	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.07	0.04
Potassium	1005	2.8	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	60.7	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.17	0.02

ND = Not Detected

R ted by: _____ Approved by: _____

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LABORATORY CONTROL SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Laboratory Control Spike ID: LCSW

Ceimic Project: 950726

Matrix: Aqueous

Date Analysis Completed: 10/13/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Spike Added	Lab Control Spike Result	Lab Control Spike Recovery(%)	QC Limits(%)
Aluminum	1005	10.0	9.72	97.2	75 - 125
Antimony	1005	5.00	4.81	96.2	75 - 125
Arsenic	1005	0.200	0.197	98.5	75 - 125
Barium	1005	10.0	9.31	93.1	75 - 125
Beryllium	1005	0.250	0.244	97.5	75 - 125
Cadmium	1005	0.100	0.0969	96.9	75 - 125
Calcium	1005	25.0	24.6	98.3	75 - 125
Chromium	1005	1.00	1.01	101.0	75 - 125
Cobalt	1005	2.50	2.42	96.6	75 - 125
Copper	1005	1.25	1.17	93.9	75 - 125
Iron	1005	5.00	4.78	95.5	75 - 125
Lead	1005	0.200	0.189	94.3	75 - 125
Magnesium	1005	25.0	24.2	96.8	75 - 125
Manganese	1005	2.50	2.43	97.2	75 - 125
Mercury	1004	0.00250	0.00259	104.0	75 - 125
Nickel	1005	2.50	2.41	96.5	75 - 125
Potassium	1005	25.0	24.0	96.2	75 - 125
Selenium	1005	0.200	0.199	99.6	75 - 125
Silver	1005	1.25	1.17	93.6	75 - 125
Sodium	1005	25.0	24.3	97.3	75 - 125
Thallium	1005	0.200	0.195	97.3	75 - 125
Vanadium	1005	2.50	2.42	96.9	75 - 125
Zinc	1005	2.50	2.41	96.4	75 - 125

Reported by: _____

Approved by: _____

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"Analytical Chemistry for Environmental Management"

METHOD BLANK
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Ceimic Project: 950726

Blank ID: PBW

Date Analysis Completed: 10/13/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
Barium	1005a	ND	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	ND	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	ND	0.5
Manganese	1005a	ND	0.01
Mercury	1004a	ND	0.0002
Nickel	1005a	ND	0.04
Potassium	1005a	ND	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	ND	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-7A

Laboratory ID: D950726-01

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
ium	1005a	0.08	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	19.8	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	0.02	0.02
Copper	1005a	ND	0.02
Iron	1005a	13.4	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	6.6	0.5
Manganese	1005a	1.55	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	0.9	0.5
Selenium	1005a	0.07	0.01
Silver	1005a	ND	0.01
Sodium	1005a	9.1	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

ported by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-7B

Laboratory ID: D950726-02

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	29.2	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	0.01	0.01
ium	1005a	0.99	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	41.4	0.5
Chromium	1005a	0.05	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	17.8	0.1
Lead	1005a	0.038	0.005
Magnesium	1005a	9.6	0.5
Manganese	1005a	0.52	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	0.04	0.04
Potassium	1005a	3.1	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	105	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	0.13	0.02

ND = Not Detected

orted by: Approved by:

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-10A

Laboratory ID: D950726-03

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]rium	1005a	0.06	0.01
[illegible]eryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	5.8	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	0.04	0.02
Copper	1005a	ND	0.02
Iron	1005a	0.9	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	4.3	0.5
Manganese	1005a	0.35	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	ND	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	4.3	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	0.05	0.02

ND = Not Detected

[illegible]orted by: Jimmy Cole

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-10B

Laboratory ID: D950726-04

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
ium	1005a	0.46	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	43.5	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	0.8	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	7.3	0.5
Manganese	1005a	0.42	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	0.9	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	3.5	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

ported by: Thomas Dale

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: DUP-1

Laboratory ID: D950726-05

Date Sampled: 09/18/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/20/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
ium	1005a	0.41	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	39.7	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	0.7	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	6.7	0.5
Manganese	1005a	0.39	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	0.8	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	3.1	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

...ported by: _____

Approved by: _____

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: EB-1

Laboratory ID: D950726-08

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]ium	1005a	ND	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	ND	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	ND	0.5
Manganese	1005a	ND	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	ND	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	ND	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: [illegible]

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: GW-1

Date Sampled: 09/19/95

Date Sample Received: 09/21/95

Matrix: Aqueous

Laboratory ID: D950726-09

Date Analysis Completed: 10/13/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	0.6	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
Barium	1005a	0.06	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	21.6	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	0.3	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	2.9	0.5
Manganese	1005a	0.30	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.2	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	7.1	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reviewed by: Thuy Lee

Approved by: Alan Chang

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"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6A

Date Sampled: 09/19/95

Laboratory ID: 950726-11

Date Sample Received: 09/21/95

Date Analysis Completed: 10/13/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	39.9	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.02	0.01
Barium	1005	0.44	0.01
yllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	18.5	0.5
Chromium	1005	0.12	0.02
Cobalt	1005	0.04	0.02
Copper	1005	0.07	0.02
Iron	1005	69.5	0.1
Lead	1005	0.071	0.005
Magnesium	1005	8.7	0.5
Manganese	1005	1.46	0.01
Mercury	1004	ND	0.0002
Nickel	1005	0.06	0.04
Potassium	1005	5.7	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	12.6	0.5
Thallium	1005	ND	0.01
Vanadium	1005	0.09	0.05
Zinc	1005	0.27	0.02

ND = Not Detected

ported by: Jimmy Dhe

Approved by: Alan Chang

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: D950726-12

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
um	1005a	0.49	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	39.3	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	8.8	0.5
Manganese	1005a	0.07	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.0	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	37.5	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: _____ Approved by: _____

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SPIKE SAMPLE SUMMARY
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: D950726-12Spk

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Sample Result	Predigest Spike Added	Spiked Sample Result	Recovery(%) Predigest Spike	QC Limits	Post Digest Spike
Aluminum	ND	2.00	1.92	92	75 - 125	NR
Antimony	ND	0.500	0.520	102	75 - 125	NR
Arsenic	ND	0.0400	0.0427	103	75 - 125	NR
Barium	0.49	2.00	2.40	96	75 - 125	NR
Beryllium	ND	0.0500	0.0473	93	75 - 125	NR
Cadmium	ND	0.0500	0.0456	97	75 - 125	NR
Chromium	ND	0.200	0.199	95	75 - 125	NR
Cobalt	ND	0.500	0.462	92	75 - 125	NR
Copper	ND	0.250	0.231	88	75 - 125	NR
Iron	ND	1.00	0.992	92	75 - 125	NR
Lead	ND	0.0200	0.0177	88	75 - 125	NR
Manganese	0.072	0.500	0.559	97	75 - 125	NR
Mercury	ND	0.00100	0.00127	127	75 - 125	NR
Nickel	ND	0.500	0.464	92	75 - 125	NR
Selenium	ND	0.0100	ND	91	75 - 125	NR
Silver	ND	0.0500	0.0437	82	75 - 125	NR
Thallium	ND	0.0500	0.0492	97	75 - 125	NR
Vanadium	ND	0.500	0.465	92	75 - 125	NR
Zinc	ND	0.500	0.475	93	75 - 125	NR

ND = Not Detected
NR = Not Required

Reported by: Jenny Cole

Approved by: Alan Chang

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"Analytical Chemistry for Environmental Management"

DUPLICATE SAMPLE SUMMARY
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: D950726-12Dup

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Sample Result	Duplicate Result	RPD(%)	QC Limit(%)
Aluminum	ND	ND	**	±0.2
Antimony	ND	ND	**	±0.2
Arsenic	ND	ND	**	±0.01
Barium	0.485	0.509	5	20
Beryllium	ND	ND	**	±0.01
Cadmium	ND	ND	**	±0.01
Calcium	39.3	41.1	4	20
Chromium	ND	ND	**	±0.02
Cobalt	ND	ND	**	±0.02
Copper	ND	ND	**	±0.02
Iron	ND	ND	**	±0.1
Lead	ND	ND	**	±0.005
Magnesium	8.76	9.13	4	20
Manganese	0.0722	0.0768	6	20
Mercury	ND	ND	**	±0.0003
Nickel	ND	ND	**	±0.04
Potassium	1.04	1.02	**	±0.5
Selenium	ND	ND	**	±0.01
Silver	ND	ND	**	±0.01
Sodium	37.5	39.0	4	20
Thallium	ND	ND	**	±0.01
Vanadium	ND	ND	**	±0.05
Zinc	ND	ND	**	±0.02

ND = Not Detected
RPD = Relative Percent Difference
** For these analytes the sample concentration was less than five times the quantitation limit.
In these cases the control limit is ± the quantitation limit.

Reported by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-8A

Laboratory ID: D950726-13

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
um	1005a	0.11	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	18.1	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	0.03	0.02
Copper	1005a	ND	0.02
Iron	1005a	0.8	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	5.2	0.5
Manganese	1005a	2.69	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.4	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	8.0	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: Thomas Dale

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-8B

Laboratory ID: D950726-14

Date Sampled: 09/19/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/21/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
ium	1005a	0.71	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	31.9	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	1.2	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	5.1	0.5
Manganese	1005a	0.10	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	0.8	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	10.9	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

ported by: Approved by:

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-15

Laboratory ID: D950726-15

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	2.1	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]um	1005a	0.05	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	8.7	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	0.03	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	3.7	0.5
Manganese	1005a	1.44	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.6	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	10.6	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	0.04	0.02

ND = Not Detected

Reported by: _____

Approved by: _____

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-17A

Laboratory ID: D950726-16

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]ium	1005a	0.24	0.01
[illegible]eryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	48.0	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	28.1	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	16.5	0.5
Manganese	1005a	0.89	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.5	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	28.1	0.5
Thallium	1005a	9.79	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

[illegible]orted by: _____ Approved by: _____

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-16A

Laboratory ID: D950726-17

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	2.0	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]ium	1005a	0.05	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	8.7	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	0.03	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	3.7	0.5
Manganese	1005a	1.44	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.6	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	10.7	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	0.04	0.02

ND = Not Detected

Reported by: [illegible]

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-11A

Date Sampled: 09/20/95

Laboratory ID: D950726-18

Date Sample Received: 09/22/95

Date Analysis Completed: 10/13/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
Barium	1005a	0.20	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	39.8	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	23.2	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	13.6	0.5
Manganese	1005a	0.74	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.3	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	23.2	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: Thomas Dre

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-13A

Laboratory ID: D950726-19

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
[illegible]um	1005a	0.09	0.01
Beryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	33.2	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	16.7	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	7.0	0.5
Manganese	1005a	0.63	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	1.0	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	19.0	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

Reported by: [illegible]

Approved by: [illegible]

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-2

Laboratory ID: D950726-20

Date Sampled: 09/20/95

Date Analysis Completed: 10/13/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005a	ND	0.2
Antimony	1005a	ND	0.2
Arsenic	1005a	ND	0.01
ium	1005a	0.06	0.01
eryllium	1005a	ND	0.01
Cadmium	1005a	ND	0.01
Calcium	1005a	125	0.5
Chromium	1005a	ND	0.02
Cobalt	1005a	ND	0.02
Copper	1005a	ND	0.02
Iron	1005a	ND	0.1
Lead	1005a	ND	0.005
Magnesium	1005a	14.5	0.5
Manganese	1005a	ND	0.01
Mercury	1004a	ND	0.0003
Nickel	1005a	ND	0.04
Potassium	1005a	2.6	0.5
Selenium	1005a	ND	0.01
Silver	1005a	ND	0.01
Sodium	1005a	70.6	0.5
Thallium	1005a	ND	0.01
Vanadium	1005a	ND	0.05
Zinc	1005a	ND	0.02

ND = Not Detected

orted by: Thomas Hall

Approved by: Alan Chang

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CEIMIC
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"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Laboratory Control Spike ID: LCSW

Ceimic Project: 950726

Matrix: Aqueous

Date Analysis Completed: 10/13/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Spike Added	Lab Control Spike Result	Lab Control Spike Recovery(%)	QC Limits(%)
Aluminum	1005a	10.0	9.31	93.1	75 - 125
Antimony	1005a	5.00	4.62	92.3	75 - 125
Arsenic	1005a	0.200	0.194	96.8	75 - 125
Barium	1005a	10.0	8.90	89.0	75 - 125
Beryllium	1005a	0.250	0.234	93.5	75 - 125
Cadmium	1005a	0.100	0.0909	90.9	75 - 125
[illegible]ium	1005a	25.0	23.7	94.8	75 - 125
[illegible]omium	1005a	1.00	0.979	97.9	75 - 125
Cobalt	1005a	2.50	2.32	92.9	75 - 125
Copper	1005a	1.25	1.13	90.3	75 - 125
Iron	1005a	5.00	4.61	92.1	75 - 125
Lead	1005a	0.200	0.184	92.2	75 - 125
Magnesium	1005a	25.0	23.3	93.4	75 - 125
Manganese	1005a	2.50	2.34	93.4	75 - 125
Mercury	1004a	0.00250	0.00259	104.0	75 - 125
Nickel	1005a	2.50	2.32	92.7	75 - 125
Potassium	1005a	25.0	23.1	92.4	75 - 125
Selenium	1005a	0.200	0.181	90.3	75 - 125
Silver	1005a	1.25	1.13	90.1	75 - 125
Sodium	1005a	25.0	23.4	93.7	75 - 125
Thallium	1005a	0.200	0.194	96.8	75 - 125
Vanadium	1005a	2.50	2.32	92.9	75 - 125
Zinc	1005a	2.50	2.32	92.8	75 - 125

[illegible]rted by: [illegible]

Approved by: [illegible]

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TOC ANALYSES

CEIMIC
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"Analytical Chemistry for Environmental Management"

TOTAL ORGANIC CARBON

QUALITY CONTROL

METHOD BLANK

Client: Cummings Riter Consultants — Ceimic Project No.: 950726

Client Sample ID: Method Blank — Concentration in: mg/L

Laboratory ID	Sample Concentration	Method Reporting Limit	Date of Analysis
0927-00	ND	1.0	9/27/95
1004-00	ND	1.0	10/04/95

ND = Not detected

Reported By: Jeffrey D. Maynor Approved By: MP

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LABORATORY CONTROL SUMMARY

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Cummings Riter Consultants

Matrix: Aqueous

Project No.: 950726

Concentration in: mg/L

Laboratory Control ID	Concentration of Standard	% Recovery Initial	% Recovery Final	RPD	Date of Analysis
0927-50	50.0	98	97	1	9/27/95
1004-50	50.0	103	99	4	10/04/95

RPD = Relative Percent Difference

Reported by: Jeffrey D. Maymon

Approved by: MP

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QUALITY CONTROL

LABORATORY CONTROL SAMPLE

Client: Cummings Riter Consultants

Client Sample ID: Laboratory Control Sample

Project No.: 950726

Laboratory ID: QC-69.4

Matrix: Aqueous

Target Analyte	Date Analyzed	%Recovery	Control Limits
Total Organic Carbon (TOC)	9/27/95	100	75-125%
Total Organic Carbon (TOC)	10/04/95	102	75-125

Reported by: Jeffrey D. Maynor Approved by: MP

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TOTAL ORGANIC CARBON (TOC)

Method 415.1/9060

Client: Cummings Riter Consultants

Project No.: 950726

Date Analyzed: 9/20/95 - 9/22/95

Result in: mg/L*

Client ID	Laboratory ID	Sample Concentration	Date Sampled	Date Analyzed
MW-7B	950726-02	4.9	9/18/95	9/27/95
MW-10A	950726-03	3.4	9/18/95	9/27/95
MW-10B	950726-04	1.1	9/18/95	9/27/95
DUP-1	950726-05	1.0	9/18/95	9/27/95
EB-1	950726-08	ND	9/19/95	9/27/95
GW-1	950726-09	1.1	9/19/95	9/27/95
MW-7A	950726-10	1.7	9/19/95	9/27/95
MW-6A	950726-11	2.3	9/19/95	9/27/95
MW-6B	950726-12	1.3	9/19/95	9/27/95
MW-8A	950726-13	3.2	9/19/95	9/27/95
MW-8B	950726-14	1.3	9/19/95	9/27/95
MW-15	950726-15	3.8	9/20/95	10/04/95
MW-17A	950726-16	5.3	9/20/95	10/04/95
MW-16A	950726-17	3.1	9/20/95	10/04/95
MW-11A	950726-18	2.7	9/20/95	10/04/95
MW-13A	950726-19	3.1	9/20/95	10/04/95
MW-2	950726-20	4.1	9/20/95	10/04/95

* Method Reporting Limit = 1.0 mg/L
ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: ZIP

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INORGANIC ANALYTES

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

METHOD BLANK

Client: Cummings Riter Consultants

Client ID: Method Blank

Result in: mg/L

Project No.: 950726

Laboratory ID: PBW

Target Analyte	Result	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.13	0.10	9/22/95
Ammonia (as N)	ND	0.10	9/25/95
Ammonia (as N)	ND	0.10	9/27/95
Fluoride	ND	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	0.05	10/02/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

LABORATORY CONTROL SAMPLE

Client: Cummings Riter Consultants

Client ID: Laboratory Control Sample

Project No.: 950726

Laboratory ID: QC

Matrix: Aqueous

Target Analyte	Date Analyzed	% Recovery	Control Limits
Ammonia (as N)	9/22/95	104	75-125%
Ammonia (as N)	9/25/95	112	75-125
Ammonia (as N)	9/27/95	92	75-125
Fluoride	10/04/95	119	75-125
Nirtate-Nitrite (as N)	10/02/95	98	75-125

Reported by: Jeffrey D Maynor

Approved by: NP

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CEIMIC
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"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-7A

Laboratory ID: 950726-01

Sample Received: 9/20/95

Date Sampled: 9/18/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Fluoride	0.10	mg/L	0.10	10/04/95
pH	6.44	S.U.	----	9/20/95

Reported by: Jeffrey D. Maymon Approved by: ZP

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CEIMIC
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-7B

Laboratory ID: 950726-02

Sample Received: 9/20/95

Date Sampled: 9/18/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.25	mg/L	0.10	9/22/95
Fluoride	0.24	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.54	mg/L	0.05	10/02/95
pH	7.44	S.U.	----	9/20/95

Reported by: Jeffrey D. Maymon Approved by: ZP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-10A

Laboratory ID: 950726-03

Sample Received: 9/20/95

Date Sampled: 9/18/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.25	mg/L	0.10	9/22/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.05	mg/L	0.05	10/02/95
pH	4.86	S.U.	----	9/20/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-10B

Laboratory ID: 950726-04

Sample Received: 9/20/95

Date Sampled: 9/18/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.56	mg/L	0.10	9/22/95
Fluoride	0.11	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	7.11	S.U.	----	9/20/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: DUP-1

Laboratory ID: 950726-05

Sample Received: 9/20/95

Date Sampled: 9/18/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.52	mg/L	0.10	9/22/95
Fluoride	0.12	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	7.20	S.U.	----	9/20/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: EB-1

Laboratory ID: 950726-08

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	ND	mg/L	0.10	9/25/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.44	S.U.	----	9/21/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: GW-1

Laboratory ID: 950726-09

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.45	mg/L	0.10	9/25/95
Fluoride	1.02	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	1.46	mg/L	0.05	10/02/95
pH	5.99	S.U.	----	9/21/95

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-7A

Laboratory ID: 950726-10

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.20	mg/L	0.10	9/25/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-6A

Laboratory ID: 950726-11

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.25	mg/L	0.10	9/25/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.10	mg/L	0.05	10/02/95
pH	6.22	S.U.	----	9/21/95

ND = Not detected

Reported by: Jeffrey D. Maynor Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-6B

Laboratory ID: 950726-12

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.55	mg/L	0.10	9/25/95
Fluoride	0.20	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.06	mg/L	0.05	10/02/95
pH	7.49	S.U.	----	9/21/95

Reported by: Jeffrey D. Maymon Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

SPIKE ANALYSIS SUMMARY

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Date Sample Received: 9/21/95

Laboratory ID: 950726-12 SPK

Concentration in: mg/L

Target Analyte	Sample Result	Predigest Spike Added	Spiked Sample Result	Percent Recovery: Predigest Spike	Percent Recovery: Control Limit
Ammonia (as N)	0.55	1.00	1.40	85	75-125%
Fluoride	0.20	0.80	1.06	108	75-125
.trate-Nitrite (as N)	0.06	0.40	0.49	108	75-125

Reported by: Jeffrey D. Maymon

Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

DUPLICATE ANALYSIS SUMMARY

Client: Cummings Riter Consultants

Client Sample ID: MW-6B

Laboratory ID: 950726-12 DUP

Date Sampled: 9/19/95

Date Sample Received: 9/21/95

Target Analyte	Sample Result	Duplicate Result	RPD	Control Limit
Ammonia (as N)	0.55	0.46	18	20%
Fluoride	0.20	0.21	5	20
Nitrate-Nitrite (as N)	0.06	0.06	0	20
pH	7.49	7.49	0	20

RPD = Relative Percent Difference

Reported by: Jeffrey D. Mayman

Approved by: VP

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CEIMIC
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-8A

Laboratory ID: 950726-13

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.37	mg/L	0.10	9/25/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.81	mg/L	0.05	10/02/95
pH	5.88	S.U.	----	9/21/95

ND = Not detected

Reported by: Jeffrey D Mayman Approved by: JP

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CEIMIC
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-8B

Laboratory ID: 950726-14

Sample Received: 9/21/95

Date Sampled: 9/19/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.43	mg/L	0.10	9/25/95
Fluoride	0.10	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.92	S.U.	----	9/21/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-15

Laboratory ID: 950726-15

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.15	mg/L	0.10	9/27/95
Fluoride	0.29	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.50	mg/L	0.05	10/02/95
pH	7.00	S.U.	----	9/22/95

Reported by: Jeffrey D. Maymon Approved by: MP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-17A

Laboratory ID: 950726-16

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	ND	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.48	mg/L	0.05	10/02/95
pH	6.08	S.U.	----	9/22/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-16A

Laboratory ID: 950726-17

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	ND	mg/L	0.10	9/27/95
Fluoride	1.32	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.54	mg/L	0.05	10/02/95
pH	4.54	S.U.	----	9/22/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: JP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-11A

Laboratory ID: 950726-18

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.34	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	0.05	mg/L	0.05	10/02/95
pH	6.08	S.U.	----	9/22/95

ND = Not detected

Reported by: Jeffrey D. Maymon Approved by: YP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-13A

Laboratory ID: 950726-19

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.14	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	7.02	S.U.	----	9/22/95

ND = Not detected

Reported by: Jeffrey D. Maynon Approved by: ZP

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-2

Laboratory ID: 950726-20

Sample Received: 9/22/95

Date Sampled: 9/20/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	ND	mg/L	0.10	9/27/95
Fluoride	5.11	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	12.1	mg/L	0.05	10/02/95
pH	7.01	S.U.	----	9/22/95

ND = Not detected

Reported by: Jeffrey D. Maynon Approved by: NP

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CHAIN OF CUSTODY

CUMMINGS RITER CONSULTANTS, INC.

Chain of Custody Record

Page 1 of 1
Lab Quo.

Project Name: Blairsville
Project Location: Blairsville PA
Project Number: 93-132
Sampled By: (print) D. Cusick / B. Baughman

Results To: William A. Baughman
Company: Cummings/Ritter
Address: 339 Haymaker Road Suite 201
Monroeville PA 15146
Phone: (412) 373-5240

Invoice To: Westinghouse Electric Corp.
Company:
Address: Blairsville, PA
Phone:

Lab ID	Sample Identification	Date	Time	Grab	Composite	Sample Matrix	No. of Bottles	VOA	TPH	Diss. Metals	Total Metals	Nitrate TOC Ammonia	Fluoride pH	Gross α Gross β	Total Radium	Total Uranium/Isotopic		HCL	HNO3	H2SO4	NaOH	Remarks
	MW-15	9-20-95	09:15	✓		H_2O	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-17A	"	1020	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-16A	"	11:15	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-11A	"	12:20	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-13A	"	13:10	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-2	"	13:40			"	6	✓		✓	✓	✓	✓					✓	✓	✓		
	Trip Blank-3	"	—	✓		"	2	✓										✓				

Turnaround Time Required:
Normal ✓
Rush ___

Sample Disposal:
Return to Client ___
Disposal by Lab ✓

Known Hazard (flammable/toxic):
Yes (comment below) ___
No ✓

	Date	Time	
1. Relinquished By: (signature) Daniel P. Cusick	9/20/95	1650	1. Received By: (signature) [signature]
2. Relinquished By: (signature) [signature]	9/21/95	1100	2. Received By: (signature) J. Kulakowski
3. Relinquished By: (signature)			3. Received By: (signature) Michael V. Tate 9/22/95 9:15

Special Instructions/Comments:

Sample Condition Upon Receipt:

CUMMINGS RITER CONSULTANTS, INC.

Chain of Custody Record

Page 1 of 1
Lab Quo.

Project Name: Blairsville
Project Location: Blairsville PA
Project Number: 93-132
Sampled By: (print) Dan Cusick / Bill Baughman

Results To: William A. Baughman
Company: Cummings/Riter
Address: 339 Playmaker Road Suite 201, Monroeville PA 15146
Phone: (412) 373-5240

Invoice To:
Company: Westinghouse Electric Corp
Address: Blairsville, PA
Phone:

Lab ID	Sample Identification	Date	Time	Grab	Composite	Sample Matrix	No. of Bottles	VOA	TPH	Dissolved Metals	Total Metals	Nitrate, TOC, Ammonia	Fluoride, pH	Gross α, Gross β	Total radium	Total (Radium) Isotopes		HCL	HNO3	H2SO4	NaOH	Remarks
	Trip Blank 2	9-14-95	—	✓		H_2O	2	✓										✓	✓	✓		
	EB-1	"	1600	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	GW-1	"	1415	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-7A	"	1310	✓		"	5		✓			✓			✓	✓		✓	✓	✓		
	MW-6A	"	910	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		TPH CONTAINER NOT RECEIVED
	MW-6B	"	1010	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-8A	"	1210	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-8B	"	1230	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-6B MS	"	1010	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-6B MSD	"	1010	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		

Turnaround Time Required: Normal ✓ Rush ___

Sample Disposal: Return to Client ___ Disposal by Lab ✓

Known Hazard (flammable/toxic): Yes (comment below) ___ No ✓

	Relinquished By: (signature)	Date	Time	Received By: (signature)
1.	Daniel P Cusick	9/14/95	1800	[illegible]
2.	[illegible]	9/21/95	1210	Joseph O Bradley
3.	Joseph J Bradley	9/20/95	13:15	T. Williams

Special Instructions/Comments:
Received by:
Michael V. Torio
9/21/95 10:00

Sample Condition Upon Receipt:

CUMMINGS RITER CONSULTANTS, INC.

Chain of Custody Record

Page 1 of 1
Lab Quote #

Project Name: Blairsville
Project Location: Blairsville PA
Project Number: 93-132
Sampled By: (print) Dan Cusick / Bill Baughman

Results To: William A. Baughman
Company: Cummings / Riter
Address: 339 Haymaker Rd Suite 201
Monroeville PA 15146
Phone: (412) 373-5240

Invoice To:
Company: Westinghouse Elec. Corp.
Address: Blairsville PA
Phone:

Lab ID	Sample Identification	Date	Time	Grab	Composite	Sample Matrix	No. of Bottles	VOA (40 ml)	TPH	Dissolved Metals	Total Metals	Nitrate, TOC, Ammonia	Fluoride PH	Gross α Gross β	Total Radium	Total Uranium/Isotopes		HCL	HNO3	H2SO4	NaOH	Remarks
	MW-7A	9-18-95	13:00	✓		Water	7	✓		✓	✓		✓	✓				✓	✓	✓		
	MW-7B	"	12:15	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-10A	"	14:30	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	MW-10B	"	15:15	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	DUP-1	"	—	✓		"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		
	Trip-1	"	—	✓		"	2	✓														

Turnaround Time Required: Normal ✓ Rush
Sample Disposal: Return to Client Disposal by Lab ✓
Known Hazard (flammable/toxic): Yes (comment below) No ✓

	Relinquished By: (signature)	Date	Time	Received By: (signature)
1.	Daniel P. Cusick	9-18-95	18:30	[illegible]
2.	[illegible]	9-19-95	10:10	Jill L. Kulanowski
3.		9/20/95	9:30	[illegible]

Special Instructions/Comments:
Cooler Temp = ~~7.59~~ (5.5) 7195932505 = 9°C
Fed Ex #: 9528878466 = 7°C
9528878457 = 10°C

Sample Condition Upon Receipt:

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 1 of 4

LIMS # 950726

Date Received: 9/22/95

Project: Cummings Riter : Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/22/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

If YES, enter carrier name & airbill number here: Fed Ex 7195932472

2. Were custody seals on outside of cooler? ..... YES (NO)

How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND (YES) NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... (YES) NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO

7. Did you sign custody papers in the appropriate place? ..... (YES) NO

8. Was project identifiable from custody papers? ..... (YES) NO

9. If required, was enough ice used? ..... Cooler Temperature: 13°C Type of ice: _____ (YES) NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/22/95

B. LOG-IN PHASE: Date samples were logged-in: 9/22/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

11. Describe type of packing in cooler: packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES (NO)

13. Did all bottles arrive unbroken and were labels in good condition? 13A (TPH) ..... YES (NO)

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... (YES) NO
If YES, give details on the back of this form.

21. Who was called? Bill Braughman By whom? Carla Rodman (date): 9/21/95

see telephone log

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 2 of 4

LIMS # 950726

Date Received: 9/22/95

Project: Cemingy Rites : Blainsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/22/95

by (print): MICHAEL V. TORIO (sign): Michael V. Torio

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

   If YES, enter carrier name & airbill number here: Fed Ex 6244 9754 4463

2. Were custody seals on outside of cooler? ..... YES (NO)

   How many & where:_____ seal date:_____ seal name:_____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND (YES) NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 20°C Type of ice:_____ YES NO

10. Have designated person initial here to acknowledge receipt of cooler:_____ (date):_____

B. LOG-IN PHASE: Date samples were logged-in: 9/22/95

by (print): MICHAEL V. TORIO (sign): Michael V. Torio

11. Describe type of packing in cooler: packing peanuts

12. Were all bottles sealed in separate plastic bags? VOA VIALS ONLY ..... (YES) NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#:_____ (YES) NO

20. Was the project manager called and status discussed? ..... YES (NO)
    If YES, give details on the back of this form.

21. Who was called?_____ By whom?_____ (date):_____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 3 of 4

LIMS # 950726

Date Received: 9/22/95

Project: Cummings Pitan - Blaisdell

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/22/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

If YES, enter carrier name & airbill number here: FED EX **MPS** 6249754472

2. Were custody seals on outside of cooler? ..... YES NO

How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 12°C Type of ice: _____ YES NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/22/95

B. LOG-IN PHASE: Date samples were logged-in: 9/22/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

11. Describe type of packing in cooler: packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 4 of 4

LIMS # 95D726

Date Received: 9/22/95

Project: Cleminson Ritter

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/22/95

by (print): MICHAEL V. TORIO (sign): Michael V. Torio

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

If YES, enter carrier name & airbill number here: FEDEX MPS 6249754481

2. Were custody seals on outside of cooler? ..... YES NO

How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 16°C Type of ice: _____ YES NO

10. Have designated person initial here to acknowledge receipt of cooler: _____ (date): _____

B. LOG-IN PHASE: Date samples were logged-in: 9/22/95

by (print): MICHAEL V. TORIO (sign): Michael V. Torio

11. Describe type of packing in cooler: packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 1 of 24

LIMS # 950724

Date Received: 9/20/95

Project: Cummings Riter : Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/21/95

by (print): MICHAEL V. TORZO (sign): Michael V. Torzo

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

   If YES, enter carrier name & airbill number here: FedEx 7195932494

2. Were custody seals on outside of cooler? ..... YES (NO)

   How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES (NO)

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: _____ YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO

7. Did you sign custody papers in the appropriate place? ..... (YES) NO

8. Was project identifiable from custody papers? ..... (YES) NO

9. If required, was enough ice used? ..... Cooler Temperature: 9°C Type of ice: cubed (YES) NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/21/95

B. LOG-IN PHASE: Date samples were logged-in: 9/21/95

by (print): MICHAEL V. TORZO (sign): Michael V. Torzo

11. Describe type of packing in cooler: plastic wraps, packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES (NO)

13. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ (YES) NO

20. Was the project manager called and status discussed? ..... YES (NO)
    If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 2 of 24

LIMS # 950726

Date Received: 9/20/95

Project: Cummings Riter : Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: _____

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

   If YES, enter carrier name & airbill number here: FedEx 7195932494

2. Were custody seals on outside of cooler? ..... YES (NO)

   How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES (NO)

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: _____ YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO

7. Did you sign custody papers in the appropriate place? ..... (YES) NO

8. Was project identifiable from custody papers? ..... (YES) NO

9. If required, was enough ice used? ..... Cooler Temperature: 7°C Type of ice: Cubed (YES) NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/21/95

B. LOG-IN PHASE: Date samples were logged-in: _____

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

11. Describe type of packing in cooler: plastic bubble wrap, packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES (NO)

13. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ (YES) NO

20. Was the project manager called and status discussed? ..... YES (NO)
    If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 3 of 4

LIMS # 950726

Date Received: 9/20/95 (9/21/95)

Project: Cummings Rites : Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: _____

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

If YES, enter carrier name & airbill number here: Fed Ex 952 8878 387

:KING NUMBER — PULL UP PURPLE TAB

2. Were custody seals on outside of cooler? ..... YES (NO)

How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND (YES) NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO

7. Did you sign custody papers in the appropriate place? ..... (YES) NO

8. Was project identifiable from custody papers? ..... (YES) NO

9. If required, was enough ice used? ..... Cooler Temperature: 5°C Type of ice: Cubed (YES) NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/21/95

B. LOG-IN PHASE: Date samples were logged-in: 9/21/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

11. Describe type of packing in cooler: bubble wrap, packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES (NO)

13. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ (YES) NO

20. Was the project manager called and status discussed? ..... YES (NO)
If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 4 of 4

LIMS # 950726

Date Received: 9/20/95 (9/21/95)

Project: Cummings Riter : Blainsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/21/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

1. Did cooler come with a shipping slip (airbill, etc.)? ..... (YES) NO

   If YES, enter carrier name & airbill number here: Fed Ex 952 8878 362

2. Were custody seals on outside of cooler? ..... YES (NO)

   How many & where:_____ seal date:_____ seal name:_____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ND (YES) NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES (NO)

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (YES) NO

7. Did you sign custody papers in the appropriate place? ..... (YES) NO

8. Was project identifiable from custody papers? ..... (YES) NO

9. If required, was enough ice used? ..... Cooler Temperature: 8°C Type of ice: Cubed (YES) NO

10. Have designated person initial here to acknowledge receipt of cooler: MVT (date): 9/21/95

B. LOG-IN PHASE: Date samples were logged-in: 9/21/95

by (print): MICHAEL V. TORTO (sign): Michael V. Torto

11. Describe type of packing in cooler: bubble wrap, packing peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES (NO)

13. Did all bottles arrive unbroken and were labels in good condition? ..... (YES) NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... (YES) NO

15. Did all bottle labels agree with custody papers? ..... (YES) NO

16. Were correct containers used for the tests indicated? ..... (YES) NO

17. Were correct preservatives added to samples? ..... (YES) NO

18. Was a sufficient amount of sample sent for tests indicated? ..... (YES) NO

19. Were bubbles absent in VOA samples? If NO, list by sample#:_____ (YES) NO

20. Was the project manager called and status discussed? ..... YES (NO)
    If YES, give details on the back of this form.

21. Who was called?_____ By whom?_____ (date):_____

CEIMIC CORPORATION

Sample Receiving Checklist

Number of Coolers: 1 of 3

LIMS # 950726

Date Received: 9/20/95

Project: Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/20/95

by (print): Corey Schwartz (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

If YES, enter carrier name & airbill number here: fed Ex 7195932505

2. Were custody seals on outside of cooler? ..... YES NO

How many & where: — seal date: — seal name: —

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Type of ice: Cubes YES NO

10. Have designated person initial here to acknowledge receipt of cooler: CS. (date): 9/20/95

Cooler Temp = 9°C

B. LOG-IN PHASE: Date samples were logged-in: 9/20/95

by (print): Corey Schwartz (sign): [signature]

11. Describe type of packing in cooler: Peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: ..... YES NO N/A

20. Was the project manager called and status discussed? ..... YES NO
If YES, give details on the back of this form.

21. Who was called? ..... By whom? ..... (date): .....

CEIMIC CORPORATION

Sample Receiving Checklist

Number of Coolers: 2 of 3

LIMS # 950726

Date Received: 9/20/95

Project: Blainsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/20/95

by (print): Corey Schwartz (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

If YES, enter carrier name & airbill number here: Fed Ex 952 8875 4466

2. Were custody seals on outside of cooler? ..... YES NO

How many & where: — seal date: — seal name: —

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Type of ice: Cubed YES NO

10. Have designated person initial here to acknowledge receipt of cooler: C.S. (date): 9/20/95

Cooler Temp = 7°C

B. LOG-IN PHASE: Date samples were logged-in: 9/20/95

by (print): Corey Schwartz (sign): [signature]

11. Describe type of packing in cooler: Peanuts, Bubblewrap

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION

Sample Receiving Checklist

Number of Coolers: 3 of 3

LIMS # 950726

Date Received: 9/20/95

Project: Blaisville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/20/95

by (print): Corey Schuster (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

   If YES, enter carrier name & airbill number here: _____ 952 8878 457

2. Were custody seals on outside of cooler? ..... YES NO

   How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Type of ice: cubes YES NO

10. Have designated person initial here to acknowledge receipt of cooler: CS (date): 9/20/95

    Cooler Temp = 10

B. LOG-IN PHASE: Date samples were logged-in: 9/20/95

by (print): Corey Schuster (sign): [signature]

11. Describe type of packing in cooler: Peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
    If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

October 17, 1995

RECEIVED
OCT 18 1995

Mr. Bill Baughman
Cummings/Riter Consultants, Inc.
339 Haymaker Road
Parkway Building/Suite 201
Monroeville, PA 15146

Dear Mr. Baughman:

Enclosed are the results for the analyses performed in support of the Cummings Riter Consultants, Blairsville - Westinghouse Project No. 93-132. The samples were taken from the field on September 21, 1995 and received at Ceimic Corporation on September 22, 1995.

These samples are reported under the Ceimic Project Number 950745, which can be referenced when inquiring about this project.

If you have any questions or concerns regarding this data, please call me at the telephone number listed below.

Sincerely,

Neil Pothier, Ph.D.
Laboratory Manager

NP/jmf

Enclosures

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VOLATILE ANALYSES

CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950745

Blank ID: V20927-B3

Date Sample Analyzed: 09/28/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
yl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: DL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V20927-B3

Matrix: Aqueous

Ceimic Project: 950745

Date Sample Analyzed: 09/28/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	106	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	103	86 - 115

Reported by: KK

Approved by: RL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950745

Blank ID: V50927-B2

Date Sample Analyzed: 09/27/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
l Chloride	ND	10
Cnloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: IL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V50927-B2

Matrix: Aqueous

Ceimic Project: 950745

Date Sample Analyzed: 09/27/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
,2,2-Tetrachloroethane	ND	5
oluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	95	76 - 114
Toluene-d8	99	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: nl

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank ID: V51001-B1

Matrix: Aqueous

Ceimic Project: 950745

Date Sample Analyzed: 10/01/95

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: KL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Ceimic Project: 950745

Blank ID: V51001-B1

Date Sample Analyzed: 10/01/95

Matrix: Aqueous

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1, 2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	102	76 - 114
Toluene-d8	100	88 - 110
Bromofluorobenzene	98	86 - 115

Reported by: KK

Approved by: M

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CEIMIC
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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-12A

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-01

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	36	5
1,1-Dichloroethane	90	5
1,2-Dichloroethene (total)	190	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	2700*	100
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	1800*	100
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: R

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-12A

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-01

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1, 2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected
* Concentration was determined from a diluted analysis (1:20).

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	104	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	102	86 - 115

Reported by: KK

Approved by: M

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-3

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-02

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
Vinyl Chloride	23	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	ND	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	5	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	530 *	130
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	3100*	130
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: RL

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-3

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-02

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1 ,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected
* Concentration was determined from a diluted analysis (1:25).

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	103	76 - 114
Toluene-d8	97	88 - 110
Bromofluorobenzene	102	86 - 115

Reported by: KK

Approved by: M

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TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: DUP-2

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-03

Date Sample Analyzed: 10/02/95

Associated Method Blank: V51001-B1

Dilution Factor: 50

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	500
›momethane	ND	500
.nyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	250
Acetone	ND	500
Carbon Disulfide	ND	250
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	250
1,2-Dichloroethene (total)	ND	250
Chloroform	ND	250
1,2-Dichloroethane	ND	250
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	250
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	250
1,2-Dichloropropane	ND	250
trans-1,3-Dichloropropene	ND	250
Trichloroethene	4600	250
Dibromochloromethane	ND	250
1,1,2-Trichloroethane	ND	250
Benzene	ND	250
cis-1,3-Dichloropropene	ND	250
Bromoform	ND	250
2-Hexanone	ND	500

Reported by: KK

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: DUP-2

Laboratory ID: 950745-03

Date Sampled: 09/21/95

Date Sample Analyzed: 10/02/95

Date Sample Received: 09/22/95

Associated Method Blank: V51001-B1

Matrix: Aqueous

Dilution Factor: 50

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	500
Tetrachloroethene	ND	250
,2,2-Tetrachloroethane	ND	250
Toluene	ND	250
Chlorobenzene	ND	250
Ethylbenzene	ND	250
Styrene	ND	250
Total Xylenes	ND	250

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	98	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	99	86 - 115

Reported by: KK

Approved by: [illegible]

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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-9A

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-04

Date Sample Analyzed: 09/28/95

Associated Method Blank: V20927-B3

Dilution Factor: 25

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	250
Bromomethane	ND	250
Vinyl Chloride	ND	250
Chloroethane	ND	250
Methylene Chloride	ND	130
Acetone	ND	250
Carbon Disulfide	ND	130
1,1-Dichloroethene	ND	130
1,1-Dichloroethane	ND	130
1,2-Dichloroethene (total)	620	130
Chloroform	ND	130
1,2-Dichloroethane	ND	130
2-Butanone	ND	250
1,1,1-Trichloroethane	ND	130
Carbon Tetrachloride	ND	130
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
trans-1,3-Dichloropropene	ND	130
Trichloroethene	12000	130
Dibromochloromethane	ND	130
1,1,2-Trichloroethane	ND	130
Benzene	ND	130
cis-1,3-Dichloropropene	ND	130
Bromoform	ND	130
2-Hexanone	ND	250

Reported by: KK

Approved by: [illegible]

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CEIMIC
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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: MW-9A

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-04

Date Sample Analyzed: 09/28/95

Associated Method Blank: V20927-B3

Dilution Factor: 25

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	250
Tetrachloroethene	ND	130
1, 2-Tetrachloroethane	ND	130
Toluene	ND	130
Chlorobenzene	ND	130
Ethylbenzene	ND	130
Styrene	ND	130
Total Xylenes	ND	130

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	109	76 - 114
Toluene-d8	98	88 - 110
Bromofluorobenzene	98	86 - 115

Reported by: KK

Approved by: NL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP BLANK 4

Date Sampled: 09/21/95

Date Sample Received: 09/22/95

Matrix: Aqueous

Laboratory ID: 950745-06

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
Chloromethane	ND	10
Bromomethane	ND	10
V[illegible] Chloride	ND	10
Chloroethane	ND	10
Methylene Chloride	ND	5
Acetone	17	10
Carbon Disulfide	ND	5
1,1-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
1,2-Dichloroethene (total)	ND	5
Chloroform	ND	5
1,2-Dichloroethane	ND	5
2-Butanone	ND	10
1,1,1-Trichloroethane	ND	5
Carbon Tetrachloride	ND	5
Bromodichloromethane	ND	5
1,2-Dichloropropane	ND	5
trans-1,3-Dichloropropene	ND	5
Trichloroethene	ND	5
Dibromochloromethane	ND	5
1,1,2-Trichloroethane	ND	5
Benzene	ND	5
cis-1,3-Dichloropropene	ND	5
Bromoform	ND	5
2-Hexanone	ND	10

Reported by: KK

Approved by: [illegible]

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CEIMIC
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"Analytical Chemistry for Environmental Management"

TARGET COMPOUND LIST (TCL)
VOLATILE ORGANICS ANALYSIS
SW846 METHOD 8240

Client: Cummings Riter Consultants

Client Sample ID: TRIP BLANK 4

Laboratory ID: 950745-06

Date Sampled: 09/21/95

Date Sample Analyzed: 09/27/95

Date Sample Received: 09/22/95

Associated Method Blank: V50927-B2

Matrix: Aqueous

Dilution Factor: 1

Concentration in: μg/L (ppb)

Target Analyte	Sample Concentration	Quantitation Limit
4-Methyl-2-Pentanone	ND	10
Tetrachloroethene	ND	5
1,1,2,2-Tetrachloroethane	ND	5
Toluene	ND	5
Chlorobenzene	ND	5
Ethylbenzene	ND	5
Styrene	ND	5
Total Xylenes	ND	5

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	100	76 - 114
Toluene-d8	96	88 - 110
Bromofluorobenzene	98	86 - 115

Reported by: KIC

Approved by: PL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
VOLATILE BLANK SPIKE/BLANK SPIKE DUPLICATE
SW846 METHOD 8240

Client: Cummings Riter Consultants

Blank Spike ID: V50927-LCS

Matrix: Aqueous

Ceimic Project: 950745

Date Sample Analyzed: 09/27/95

Associated Method Blank: V50927-B2

Concentration: µg/L (ppb)

Spike Compound	Spike Added	Blank Spike Recovery(%)	Blank Spike Duplicate Recovery(%)	RPD(%)	QC Limits(%)* RPD	QC Limits(%)* Recovery
1,1-Dichloroethene	50	72	73	1	20	63 - 131
Trichloroethene	50	104	107	3	20	78 - 140
Benzene	50	84	84	1	20	66 - 131
T[illegible]ene	50	94	94	0	20	66 - 134
C[illegible]robenzene	50	116	116	1	20	72 - 148

* These limits are provided for advisory purposes.

Surrogate Spike Recovery

Surrogate Compound	Blank Spike Recovery(%)	Blank Spike Duplicate Recovery(%)	QC Limits(%)
1,2-Dichloroethane-d4	100	101	76 - 114
Toluene-d8	98	97	88 - 110
Bromofluorobenzene	100	101	86 - 115

Reported by: KIC

Approved by: [illegible]

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TPH ANALYSES

CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-12A
Date Sampled: 09/21/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950745-01
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/02/95
Associated Method Blank: F0927-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Diesel Fuel	ND	1.0
Fuel Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	84	40 - 160

* These limits are provided for advisory purposes.

Reviewed by: _____ Approved by: _____

Form I TPH

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-3
Date Sampled: 09/21/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950745-02
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/02/95
Associated Method Blank: F0927-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
sel Fuel	ND	1.0
el Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	81	40 - 160

* These limits are provided for advisory purposes.

Reported by: _____ Approved by: HL

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: DUP-2
Date Sampled: 09/21/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950745-03
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/03/95
Associated Method Blank: F0927-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
[illegible]el Fuel	ND	1.0
[illegible] Oil #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	83	40 - 160

* These limits are provided for advisory purposes.

Reported by: _____ Approved by: _____

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"Analytical Chemistry for Environmental Management"

TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Client Sample ID: MW-9A
Date Sampled: 09/21/95
Date Sample Received: 09/22/95
Matrix: Aqueous

Laboratory ID: 950745-04
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/03/95
Associated Method Blank: F0927-B5
Final Extract Volume (mL):1.0
Dilution Factor: 1
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.0
JP-4	ND	1.0
Kerosene	ND	1.0
Jet Fuel A	ND	1.0
JP-5	ND	1.0
JP-8	ND	1.0
Mineral Oil	ND	1.0
Naphtha	ND	1.0
Di[illegible] Fuel	ND	1.0
Fu[illegible]il #2	ND	1.0
Fuel Oil #4	ND	1.0
Fuel Oil #5	ND	1.0
Fuel Oil #6	ND	1.0
Bunker Oil	ND	1.0
Motor Oil	ND	1.0
Hydraulic Jack Oil	ND	1.0
Transmission Fluid	ND	1.0
Lubricating Oil	ND	1.0
Compressor Oil	ND	1.0
Creosote	ND	1.0
Diesel Range Organics	ND	0.50

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	83	40 - 160

* These limits are provided for advisory purposes.

Reported by: B

Approved by: pL

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CEIMIC
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"Analytical Chemistry for Environmental Management"

METHOD BLANK
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants
Blank ID: F0927-B5
Matrix: Aqueous

Ceimic Project: 950745
Date Sample Extracted: 09/27/95
Date Sample Analyzed: 10/02/95
Concentration in: mg/L (ppm)

Target Analyte	Sample Concentration	Quantitation Limit
Mineral Spirits	ND	1.00
JP-4	ND	1.00
Kerosene	ND	1.00
Jet Fuel A	ND	1.00
JP-5	ND	1.00
JP-8	ND	1.00
Mineral Oil	ND	1.00
Naphtha	ND	1.00
Diesel Fuel	ND	1.00
[illegible] Oil #2	ND	1.00
[illegible] Oil #4	ND	1.00
Fuel Oil #5	ND	1.00
Fuel Oil #6	ND	1.00
Bunker Oil	ND	1.00
Motor Oil	ND	1.00
Hydraulic Jack Oil	ND	1.00
Transmission Fluid	ND	1.00
Lubricating Oil	ND	1.00
Compressor Oil	ND	1.00
Creosote	ND	1.00
Diesel Range Organics	ND	0.500

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	81	40 - 160

* These limits are provided for advisory purposes.

Re[illegible]ted by: [illegible]

Approved by: HL

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"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SUMMARY
TOTAL PETROLEUM HYDROCARBONS (TPH)
(Extractables)
by Modified Method 8015B

Client: Cummings Riter Consultants

Blank Spike ID: F0927-LCS5

Matrix: Aqueous

Ceimic Project: 950745

Date Sample Analyzed: 10/02/95

Date Sample Prepared: 09/27/95

Associated Method Blank: F0927-B5

Concentration in: mg/L (ppm)

Target Analyte	Spike Added	Blank Spike Result	Blank Spike Recovery(%)	QC Limits(%)*
Diesel Range Organics	0.300	0.361J	120	40 - 160

ND = Not detected

Surrogate Spike Recovery

Surrogate Compound	Recovery(%)	QC Limits(%)*
p-terphenyl-d14	96	40 - 160

* These limits are provided for advisory purposes.

Reported by: B

Approved by: HC

Form IIIA TPH

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"Analytical Chemistry for Environmental Management"

METHOD BLANK
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Ceimic Project: 950745

Blank ID: PBW

Date Analysis Completed: 10/12/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	ND	0.01
[illegible]yllium	1005	ND	0.01
[illegible]dmium	1005	ND	0.01
Calcium	1005	ND	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	ND	0.1
Lead	1005	ND	0.005
Magnesium	1005	ND	0.5
Manganese	1005	ND	0.01
Mercury	1003	ND	0.0002
Nickel	1005	ND	0.04
Potassium	1005	ND	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	ND	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: _____

Approved by: _____

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CEIMIC
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"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-12A

Date Sampled: 09/21/95

Laboratory ID: 950745-01

Date Sample Received: 09/22/95

Date Analysis Completed: 10/12/95

Matrix: Aqueous

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	3.8	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.10	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	23.5	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	23.2	0.1
Lead	1005	ND	0.005
Magnesium	1005	11.8	0.5
Manganese	1005	0.79	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	2.8	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	21.9	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.04	0.02

ND = Not Detected

Reported by: Thomas Dhe

Approved by: Alan Chang

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-12A

Laboratory ID: D950745-01

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]um	1005	0.08	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	24.5	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	14.5	0.1
Lead	1005	ND	0.005
Magnesium	1005	11.4	0.5
Manganese	1005	0.73	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	1.9	0.5
Selenium	1005	ND	0.005
Silver	1005	ND	0.01
Sodium	1005	22.0	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: Thuy Dre

Approved by: Mon Chang

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-3

Laboratory ID: 950745-02

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	8.9	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.01	0.01
[illegible]um	1005	0.23	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	70.3	0.5
Chromium	1005	0.02	0.02
Cobalt	1005	ND	0.02
Copper	1005	0.03	0.02
Iron	1005	25.8	0.1
Lead	1005	0.011	0.005
Magnesium	1005	17.2	0.5
Manganese	1005	0.44	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	2.4	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	6.2	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.08	0.02

ND = Not Detected

Reported by: Tammy Dre

Approved by: Man Chang

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-3

Laboratory ID: D950745-02

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
[illegible]ium	1005	0.08	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	63.0	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	3.8	0.1
Lead	1005	ND	0.005
Magnesium	1005	14.2	0.5
Manganese	1005	0.33	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	0.5	0.5
Selenium	1005	ND	0.005
Silver	1005	ND	0.01
Sodium	1005	6.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: Jimmy Dre

Approved by: Alan Chaney

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: DUP-2

Laboratory ID: 950745-03

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	9.3	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.24	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	74.0	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	0.02	0.02
Iron	1005	26.0	0.1
Lead	1005	0.011	0.005
Magnesium	1005	18.3	0.5
Manganese	1005	0.44	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	2.3	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	6.3	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	0.08	0.02

ND = Not Detected

Reported by: Thuy Dre

Approved by: Alan Chang

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TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: DUP-2

Laboratory ID: D950745-03

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
um	1005	0.08	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	62.1	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	4.2	0.1
Lead	1005	ND	0.005
Magnesium	1005	13.9	0.5
Manganese	1005	0.33	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	ND	0.5
Selenium	1005	ND	0.005
Silver	1005	ND	0.01
Sodium	1005	5.9	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: Thomas Dre

Approved by: Alan Chaney

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-9A

Laboratory ID: 950745-04

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	21.5	0.2
Antimony	1005	ND	0.2
Arsenic	1005	0.03	0.01
Barium	1005	0.13	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	25.5	0.5
Chromium	1005	0.08	0.02
Cobalt	1005	0.04	0.02
Copper	1005	0.03	0.02
Iron	1005	67.4	0.1
Lead	1005	0.024	0.005
Magnesium	1005	11.5	0.5
Manganese	1005	13.5	0.01
Mercury	1003	ND	0.0003
Nickel	1005	0.06	0.04
Potassium	1005	3.3	0.5
Selenium	1005	ND	0.01
Silver	1005	ND	0.01
Sodium	1005	32.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	0.05	0.05
Zinc	1005	0.11	0.02

ND = Not Detected

Reported by: Thomas Drew

Approved by: Alan Chrome

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"Analytical Chemistry for Environmental Management"

TARGET ANALYTE LIST (TAL)
DISSOLVED METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Client Sample ID: MW-9A

Laboratory ID: D950745-04

Date Sampled: 09/21/95

Date Analysis Completed: 10/12/95

Date Sample Received: 09/22/95

Concentration in: mg/L (ppm)

Matrix: Aqueous

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Aluminum	1005	ND	0.2
Antimony	1005	ND	0.2
Arsenic	1005	ND	0.01
Barium	1005	0.01	0.01
Beryllium	1005	ND	0.01
Cadmium	1005	ND	0.01
Calcium	1005	25.4	0.5
Chromium	1005	ND	0.02
Cobalt	1005	ND	0.02
Copper	1005	ND	0.02
Iron	1005	ND	0.1
Lead	1005	ND	0.005
Magnesium	1005	6.5	0.5
Manganese	1005	2.81	0.01
Mercury	1003	ND	0.0003
Nickel	1005	ND	0.04
Potassium	1005	1.3	0.5
Selenium	1005	ND	0.005
Silver	1005	ND	0.01
Sodium	1005	30.1	0.5
Thallium	1005	ND	0.01
Vanadium	1005	ND	0.05
Zinc	1005	ND	0.02

ND = Not Detected

Reported by: Thuy Dao

Approved by: Man Chang

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"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010 AND 7470

Client: Cummings Riter Consultants

Laboratory Control Spike ID: LCSW

Ceimic Project: 950745

Matrix: Aqueous

Date Analysis Completed: 10/12/95

Concentration in: mg/L (ppm)

Target Analyte	Preparation Batch	Spike Added	Lab Control Spike Result	Lab Control Spike Recovery(%)	QC Limits(%)
Aluminum	1005	10.0	9.75	97.5	75 - 125
Antimony	1005	5.00	4.85	96.9	75 - 125
Arsenic	1005	0.200	0.204	101.9	75 - 125
Barium	1005	10.0	9.30	93.0	75 - 125
Beryllium	1005	0.250	0.248	99.2	75 - 125
Cadmium	1005	0.100	0.0926	92.6	75 - 125
[illegible]cium	1005	25.0	24.9	99.6	75 - 125
Chromium	1005	1.00	1.02	101.8	75 - 125
Cobalt	1005	2.50	2.43	97.4	75 - 125
Copper	1005	1.25	1.18	94.0	75 - 125
Iron	1005	5.00	4.84	96.7	75 - 125
Lead	1005	0.200	0.194	96.9	75 - 125
Magnesium	1005	25.0	24.3	97.4	75 - 125
Manganese	1005	2.50	2.45	98.0	75 - 125
Mercury	1003	0.00250	0.00260	104.0	75 - 125
Nickel	1005	2.50	2.42	97.0	75 - 125
Potassium	1005	25.0	24.2	96.7	75 - 125
Selenium	1005	0.200	0.207	103.3	75 - 125
Silver	1005	1.25	1.14	91.3	75 - 125
Sodium	1005	25.0	24.1	96.3	75 - 125
Thallium	1005	0.200	0.205	102.4	75 - 125
Vanadium	1005	2.50	2.44	97.5	75 - 125
Zinc	1005	2.50	2.43	97.1	75 - 125

[illegible]orted by: Approved by:

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INORGANIC ANALYTES

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

METHOD BLANK

Client: Cummings Riter Consultants

Client ID: Method Blank

Project No.: 950745

Laboratory ID: PBW

Result in: mg/L

Target Analyte	Result	Method Reporting Limit	Date Analyzed
Ammonia (as N)	ND	0.10	9/27/95
Fluoride	ND	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	0.05	10/02/95

ND = Not detected

Reported by: Jeffrey D. Maymon

Approved by: Alan Chang

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

QUALITY CONTROL

LABORATORY CONTROL SAMPLE

Client: Cummings Riter Consultants

Client ID: Laboratory Control Sample

Project No.: 950745

Laboratory ID: QC

Matrix: Aqueous

Target Analyte	Date Analyzed	% Recovery	Control Limits
Ammonia (as N)	9/27/95	92	75-125%
Fluoride	10/04/95	114	75-125
Nitrate-Nitrite (as N)	10/02/95	99	75-125

Reported by: Jeffrey D. Maymon

Approved by: Man Chang

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CEIMIC
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-12A

Laboratory ID: 950745-01

Sample Received: 9/22/95

Date Sampled: 9/21/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.14	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.11	S.U.	----	9/26/95

Reported by: Jeffrey D. Maymon Approved by: Alan Chang

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CEIMIC
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"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-3

Laboratory ID: 950745-02

Sample Received: 9/22/95

Date Sampled: 9/21/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.13	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.78	S.U.	----	9/26/95

Reported by: Jeffrey D. Maymon Approved by: Alan Chang

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: DUP-2

Laboratory ID: 950745-03

Sample Received: 9/22/95

Date Sampled: 9/21/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.13	mg/L	0.10	9/27/95
Fluoride	ND	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.86	S.U.	----	9/26/95

Reported by: Jeffrey D. Maymon Approved by: Man Chang

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CEIMIC
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INORGANIC ANALYTES

Client: Cummings Riter Consultants

Client ID: MW-9A

Laboratory ID: 950745-04

Sample Received: 9/22/95

Date Sampled: 9/21/95

Target Analyte	Result	Units	Method Reporting Limit	Date Analyzed
Ammonia (as N)	0.30	mg/L	0.10	9/27/95
Fluoride	0.11	mg/L	0.10	10/04/95
Nitrate-Nitrite (as N)	ND	mg/L	0.05	10/02/95
pH	6.21	S.U.	----	9/26/95

Reported by: Jeffrey D. Maymon Approved by: Alan Chang

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TOC ANALYSES

CEIMIC
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TOTAL ORGANIC CARBON

QUALITY CONTROL

METHOD BLANK

Client: Cummings Riter Consultants — Ceimic Project No.: 950745

Client Sample ID: Method Blank — Concentration in: mg/L

Laboratory ID	Sample Concentration	Method Reporting Limit	Date of Analysis
1011-00	ND	1.0	10/11/95

ND = Not detected

Reported By: Jeffrey D. Maynor Approved By: Alan Chang

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CEIMIC
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LABORATORY CONTROL SUMMARY

TOTAL ORGANIC CARBON

EPA 415.1/9060

Client: Cummings Riter Consultants

Matrix: Aqueous

Project No.: 950745

Concentration in: mg/L

Laboratory Control ID	Concentration of Standard	% Recovery Initial	% Recovery Final	RPD	Date of Analysis
1011-50	50.0	96	98	2	10/11/95

RPD = Relative Percent Difference

Reported by: Jeffrey D. Mugnon

Approved by: Alan Chang

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CEIMIC
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QUALITY CONTROL

LABORATORY CONTROL SAMPLE

Client: Cummings Riter Consultants

Client Sample ID: Laboratory Control Sample

Project No.: 950745

Laboratory ID: QC-69.4

Matrix: Aqueous

Target Analyte	Date Analyzed	%Recovery	Control Limits
Total Organic Carbon (TOC)	10/11/95	98	75-125%

Reported by: Jeffrey D. Maymon

Approved by: Alan Chane

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TOTAL ORGANIC CARBON (TOC)

Method 415.1/9060

Client: Cummings Riter Consultants

Project No.: 950745

Date Analyzed: 9/22/95

Result in: mg/L*

Client ID	Laboratory ID	Sample Concentration	Date Sampled	Date Analyzed
MW-12A	950745-01	2.1	9/21/95	10/11/95
MW-3	950745-02	1.7	9/21/95	10/11/95
DUP-2	950745-03	1.9	9/21/95	10/11/95
MW-9A	950745-04	2.4	9/21/95	10/11/95

* Method Reporting Limit = 1.0 mg/L

Reported by: Jeffrey D. Maymon Approved by: Alan Chang

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CHAIN OF CUSTODY

2878

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 93-132 | Project name Blairsville

Samplers (Please print): D. Cusick / B. Baughman

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers	VOA	TPH	Diss. Metals	Total Metals	Nitrate, TOC Ammonia	Fluoride, PH	Gross α Gross β	Total radium	~~Remarks~~ Total Uranium/ Isotopes
9-21-95	0930	Grab	MW-12A	H_2O	12	✓	✓	✓	✓	✓	✓	✓	✓	✓
"	1030	"	MW-3	"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓
"	—	"	Dup-2	"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓
"	1140	"	MW-9A	"	12	✓	✓	✓	✓	✓	✓	✓	✓	✓
"	1100	"	MW-2	"	6		✓					✓	✓	✓
"	—	—	Trip Blank - 4	"	2	✓								

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Daniel P. Cusick	9-21-95	[signature]	9/21/95
[signature]	9/22/95 1035	J. Kulakowski	9-22-95 10:35
		[signature]	9/23/95 10:00

Remarks:
*Limited quantity for MW-2.
Cooler temp = 12°C

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CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 1 of 3

LIMS # 9507445

Date Received: 9/23/95

Project: Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/23/95

by (print): Corey Schmitz (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

   If YES, enter carrier name & airbill number here: FedEx 7195 932424

2. Were custody seals on outside of cooler? ..... YES NO

   How many & where: — seal date: — seal name: —

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: ____ YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 12°C Type of ice: cubes YES NO

10. Have designated person initial here to acknowledge receipt of cooler: C.S. (date): 9/23/95

B. LOG-IN PHASE: Date samples were logged-in: 9/23/95

by (print): Corey Schmitz (sign): [signature]

11. Describe type of packing in cooler: Peanuts / Bubblewrap

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: ____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
    If YES, give details on the back of this form.

21. Who was called? ____ By whom? ____ (date): ____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 2 of 3

LIMS # 950745

Date Received: 9/23/95

Project: Blairsville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/23/95

by (print): Corey Schwartz (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

   If YES, enter carrier name & airbill number here: _____ 952 8878 344

2. Were custody seals on outside of cooler? ..... YES NO

   How many & where: _____ seal date: _____ seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: _____ YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 1 Type of ice: Cubes YES NO

10. Have designated person initial here to acknowledge receipt of cooler: CS (date): 9/23/95

B. LOG-IN PHASE: Date samples were logged-in: 9/23/95

by (print): Corey Schwartz (sign): [signature]

11. Describe type of packing in cooler: Peanuts, Bubblewrap

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
    If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC CORPORATION
Sample Receiving Checklist

Number of Coolers: 3 of 3

LIMS # 950745

Date Received: 9/23/95

Project: Blanesville

USE THE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.

A. PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 9/23/95

by (print): Corey Schwartz (sign): [signature]

1. Did cooler come with a shipping slip (airbill, etc.)? ..... YES NO

   If YES, enter carrier name & airbill number here: FedEx 952 8878 396

2. Were custody seals on outside of cooler? ..... YES NO

   How many & where: — seal date: — seal name: —

3. Were custody seals unbroken and intact at the date and time of arrival ..... YES NO N/A

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Reading: _____ YES NO

5. Were custody papers sealed in a plastic bag & taped inside to the lid? ..... YES NO

6. Were custody papers filled out properly (ink, signed, etc.)? ..... YES NO

7. Did you sign custody papers in the appropriate place? ..... YES NO

8. Was project identifiable from custody papers? ..... YES NO

9. If required, was enough ice used? ..... Cooler Temperature: 12°C Type of ice: Cubes YES NO

10. Have designated person initial here to acknowledge receipt of cooler: CS (date): 9/23/95

B. LOG-IN PHASE: Date samples were logged-in: 9/23/95

by (print): Corey Schwartz (sign): [signature]

11. Describe type of packing in cooler: Bubblewrap, peanuts

12. Were all bottles sealed in separate plastic bags? ..... YES NO

13. Did all bottles arrive unbroken and were labels in good condition? ..... YES NO

14. Were all bottle labels complete (ID, date, time, signature, preservative, etc.)? ..... YES NO

15. Did all bottle labels agree with custody papers? ..... YES NO

16. Were correct containers used for the tests indicated? ..... YES NO

17. Were correct preservatives added to samples? ..... YES NO

18. Was a sufficient amount of sample sent for tests indicated? ..... YES NO

19. Were bubbles absent in VOA samples? If NO, list by sample#: _____ YES NO

20. Was the project manager called and status discussed? ..... YES NO
    If YES, give details on the back of this form.

21. Who was called? _____ By whom? _____ (date): _____

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

October 23, 1995

Mr. Bill Baughman
Cummings/Riter Consultants, Inc.
339 Haymaker Road
Parkway Building/Suite 201
Monroeville, PA 15146

Dear Mr. Baughman:

Enclosed are the results for the Radioactivity and the Gross α and ß analyses performed in support of the Cummings Riter Consultants, Blairsville - Westinghouse Project No. 93-132. The samples were taken from the field on September 18th, 19th, and 20th, 1995 and received at Ceimic Corporation on September 20th, 21st, and 22nd, 1995.

These samples are reported under the Ceimic Project Number 950726, which can be referenced when inquiring about this project.

Also enclosed are the Total Metals results for sample MW-12A, which has been corrected for the elements silver and sodium. The results for sample MW-6A have been appended to include the element mercury. Dissolved Metals for sample MW-11A have been corrected to report arsenic as "ND" (Not Detected). Total Metals for sample MW-11A were correct as originally reported.

If you have any questions or concerns regarding this data, please call me at the telephone number listed below.

Sincerely,

Neil Pothier, Ph.D.
Laboratory Manager

NP/adbh

Enclosures

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12-Oct-95

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 21-Sep-95 10:00
Project: 950726-Blairsville PO #:

Job: 953349E Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i

ANALYTICAL RESULTS.....R-1

QUALITY CONTROL REPORT.....Q-1

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12-Oct-95
Page: i

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 21-Sep-95 10:00
Project: 950726-Blairsville PO #:

Job: 953349E Status: Final

CASE NARRATIVE

A total of 5 Water samples were received on 21-Sep-95. As stated in the chain of custody, the samples were run for the following analyses: Gross Alpha, Gross Beta, Radium, U-234, U-235, U-238 and U. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed: .....
Radiochemistry Manager

Signed: .....
Project Review

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12-Oct-95
Page: ii

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 21-Sep-95 10:00
Project: 950726-Blairsville PO #:

Job: 953349E Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
953349-1	Water	MW-7A	18-Sep-95
953349-2	Water	MW-7B	18-Sep-95
953349-3	Water	MW-10A	18-Sep-95
953349-4	Water	MW10B	18-Sep-95
953349-5	Water	DUP-1	18-Sep-95

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12-Oct-95
Page: R-1
Job: 953349E
Status: Final

CEIMIC CORPORATION

Analyte: Gross Alpha
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 09/28-10/02
LLD: 2

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-1	18-Sep-95	Water	MW-7A	5.7±2.3	2
953349-2	18-Sep-95	Water	MW-7B	269±60	2
953349-3	18-Sep-95	Water	MW-10A	36±9	2
953349-4	18-Sep-95	Water	MW10B	1.4±1.4	2
953349-5	18-Sep-95	Water	DUP-1	0.8±3.5	2

Analyte: Gross Beta
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 09/28-10/02
LLD: 4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-1	18-Sep-95	Water	MW-7A	3.5±2.9	4
953349-2	18-Sep-95	Water	MW-7B	112±36	4
953349-3	18-Sep-95	Water	MW-10A	23±6	4
953349-4	18-Sep-95	Water	MW10B	2.4±2.2	4
953349-5	18-Sep-95	Water	DUP-1	0±10	4

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CEIMIC CORPORATION

Analyte: Radium **Project: 950726-Blairsville**
Fraction: Total **Date Analyzed: 10/03-10/05**
Method: 903.0 **LLD: 1**
Units: pCi/l

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-2	18-Sep-95	Water	MW-7B	15±2	1
953349-3	18-Sep-95	Water	MW-10A	0.8±0.5	1
953349-4	18-Sep-95	Water	MW10B	0.2±0.4	1
953349-5	18-Sep-95	Water	DUP-1	0.5±0.4	1

Analyte: U-234 **Project: 950726-Blairsville**
Fraction: Total **Date Analyzed: 10/06-10/12**
Method: 908.0 **LLD: 0.4**
Units: pCi/l

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-2	18-Sep-95	Water	MW-7B	5.1±1.7	0.4
953349-3	18-Sep-95	Water	MW-10A	0.0±0.6	0.4
953349-4	18-Sep-95	Water	MW10B	0.0±0.6	0.4
953349-5	18-Sep-95	Water	DUP-1	0.0±0.6	0.4

Analyte: U-235 **Project: 950726-Blairsville**
Fraction: Total **Date Analyzed: 10/06-10/12**
Method: 908.0 **LLD: 0.4**
Units: pCi/l

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-2	18-Sep-95	Water	MW-7B	0.0±0.6	0.4
953349-3	18-Sep-95	Water	MW-10A	0.0±0.5	0.4
953349-4	18-Sep-95	Water	MW10B	0.0±0.5	0.4
953349-5	18-Sep-95	Water	DUP-1	0.0±0.5	0.4

Analyte: U-238 **Project: 950726-Blairsville**
Fraction: Total **Date Analyzed: 10/06-10/12**
Method: 908.0 **LLD: 0.4**
Units: pCi/l

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953349-2	18-Sep-95	Water	MW-7B	4.2±1.6	0.4
953349-3	18-Sep-95	Water	MW-10A	0.0±0.6	0.4
953349-4	18-Sep-95	Water	MW10B	0.0±0.6	0.4
953349-5	18-Sep-95	Water	DUP-1	0.0±0.6	0.4

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12-Oct-95
Page: R-3
Job: 953349E
Status: Final

CEIMIC CORPORATION

Analyte: Uranium
Fraction: Total
Method: ASTM D2907
Units: mg/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/09
LLD: 0.0003

Lab Id	Date Sampled	Matrix	Sample Id	Concentration	LLD
953349-2	18-Sep-95	Water	MW-7B	0.0036	0.0003
953349-3	18-Sep-95	Water	MW-10A	0.0027	0.0003
953349-4	18-Sep-95	Water	MW10B	0.0012	0.0003
953349-5	18-Sep-95	Water	DUP-1	U	0.0003

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CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Gross Alpha Total pCi/l	± 2σ	Gross Beta Total pCi/l	± 2σ
Duplicate	0.3	±1.5	3.3	±2.3
Duplicate	2.1	±1.8	2.6	±2.3
RER	0.75		0.23	
Std (found value)	80	±5	101	±3
Std (true value)	96		95	
Std % rec.	84		107	
Blank	1.0	±0.6	1.0	±0.5
Spike % rec.	103		109	

BARRINGER LABORATORIES INC.
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CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Radium Total pCi/l	± 2σ	U-234 Total pCi/l	± 2σ
Duplicate	0.6	±0.4	0.0	±0.4
Duplicate	0.0	±1.6	0.7	±1.3
RER	0.40		0.53	
Std (found value)	110	±4	86	±4
Std (true value)	104		95	
Std % rec.	106		91	
Blank	0.0	±0.2	0.0	±0.2
Spike % rec.	98		87	

Sample Id	U-235 Total pCi/l	± 2σ	U-238 Total pCi/l	± 2σ
Duplicate	0.0	±0.4	0.0	±0.5
Duplicate	0.0	±0.9	0.2	±1.1
RER	0.00		0.20	
Std (found value)	4.4	±1.4	94	±4
Std (true value)	4.3		92	
Std % rec.	103		103	
Blank	0.0	±0.2	0.05	±0.29
Spike % rec.	92		94	

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CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Uranium Total mg/l
Duplicate	U
Duplicate	U
RPD	0.0
Std (found value)	0.514
Std (true value)	0.500
Std % rec.	103
Blank	U
Spike % rec.	94

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

12-Oct-95
Page: Q-4

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 21-Sep-95 10:00
Project: 950726-Blairsville PO #:

Job: 953349E Status: Final

Abbreviations:

Parameters:

U-234	: Uranium-234
U-235	: Uranium-235
U-238	: Uranium-238

Units:

pCi/l	: picoCuries per liter
mg/l	: milligrams per liter

Quality codes:

U	: Undetected

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

12-Oct-95
Page: Q-5

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 21-Sep-95 10:00
Project: 950726-Blairsville PO #:

Job: 953349E Status: Final

QUALITY CONTROL DATA SHEET

Received by: cs Via: UPS

Sample Container Type: 1l pl
Additional Lab Preparation: None

Parameter	Method	Preservative	Init	Analysis Dates
Gross Alpha	900.0	HNO3	EM	09/28-10/02
Gross Beta	900.0	HNO3	EM	09/28-10/02
Radium	903.0	HNO3	BLB	10/03-10/05
U-234	908.0	HNO3	CR	10/06-10/12
U-235	908.0	HNO3	CR	10/06-10/12
U-238	908.0	HNO3	CR	10/06-10/12
U	ASTM D2907	HNO3	AM	10/06-10/09

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

2924 95 3349

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Page 1 of 1

Proj. # 950726

Project name: BLAIRSVILLE, PA

Samplers (Please print): CUMMINGS RITER CONSULTANTS, INC

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers	Gross α + β	Total Radium	Total Uranium Isotopes						Remarks
9/18/95	1300	grab	MW-7A	Aq	2	2								950726-01
9/18/95	1215	↓	MW-7B	Aq	5	2	1	2						-02
9/18/95	1430	↓	MW-10A	Aq	5	2	1	2						-03
9/18/95	1515	↓	MW-10B	Aq	5	2	1	2						-04
9/18/95	—	↓	DUP-1	Aq	5	2	1	2						-05

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Michael V Toia	9/20/95	UPS 0880 4034 937	
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		C Stephenson	09/19/95 1000
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Remarks: Please call Carla Rodman of Ceimic Corp. with regards to any questions.

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

BARRINGER LABORATORIES INC.
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13-Oct-95

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950726-Blairsville PO #:

Job: 953376E Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i

ANALYTICAL RESULTS.....R-1

QUALITY CONTROL REPORT.....Q-1

BARRINGER LABORATORIES INC.
15000 W 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: i

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Project: 950726-Blairsville PO #:

Received: 25-Sep-95 08:40

Job: 953376E Status: Final

CASE NARRATIVE

A total of 5 Water samples were received on 25-Sep-95. As stated in the chain of custody, the samples were run for the following analyses: Gross Alpha, Gross Beta, Radium, U-234, U-235, U-238 and U. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed: .....
Radiochemistry Manager

Signed: .....
Project Review

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: ii

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950726-Blairsville PO #:

Job: 953376E Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
953376-1	Water	MW-15	20-Sep-95
953376-2	Water	MW-17A	20-Sep-95
953376-3	Water	MW-16A	20-Sep-95
953376-4	Water	MW-11A	20-Sep-95
953376-5	Water	MW-13A	20-Sep-95

BARRINGER LABORATORIES INC.
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13-Oct-95
Page: R-1
Job: 953376E
Status: Final

CEIMIC CORPORATION

Analyte: Gross Alpha
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/02-10/05
LLD: 2

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	30±7	2
953376-2	20-Sep-95	Water	MW-17A	116±41	2
953376-3	20-Sep-95	Water	MW-16A	61±17	2
953376-4	20-Sep-95	Water	MW-11A	9.5±4.7	2
953376-5	20-Sep-95	Water	MW-13A	20±7	2

Analyte: Gross Beta
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/02-10/05
LLD: 4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	13±4	4
953376-2	20-Sep-95	Water	MW-17A	136±32	4
953376-3	20-Sep-95	Water	MW-16A	51±11	4
953376-4	20-Sep-95	Water	MW-11A	7.2±4.4	4
953376-5	20-Sep-95	Water	MW-13A	22±5	4

Analyte: Radium
Fraction: Total
Method: 903.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/09-10/11
LLD: 1

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	0.0±2.4	1
953376-2	20-Sep-95	Water	MW-17A	25±5	1
953376-3	20-Sep-95	Water	MW-16A	13±5	1
953376-4	20-Sep-95	Water	MW-11A	1.2±2.6	1
953376-5	20-Sep-95	Water	MW-13A	5.8±3.7	1

Analyte: U-234
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	21±3	0.4
953376-2	20-Sep-95	Water	MW-17A	1.1±1.0	0.4
953376-3	20-Sep-95	Water	MW-16A	0.6±0.7	0.4
953376-4	20-Sep-95	Water	MW-11A	0.0±0.4	0.4
953376-5	20-Sep-95	Water	MW-13A	0.0±0.4	0.4

BARRINGER LABORATORIES INC.
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CEIMIC CORPORATION

Analyte: U-235
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	0.03±0.70	0.4
953376-2	20-Sep-95	Water	MW-17A	0.0±0.6	0.4
953376-3	20-Sep-95	Water	MW-16A	0.0±0.4	0.4
953376-4	20-Sep-95	Water	MW-11A	0.0±0.4	0.4
953376-5	20-Sep-95	Water	MW-13A	0.0±0.4	0.4

Analyte: U-238
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953376-1	20-Sep-95	Water	MW-15	20±3	0.4
953376-2	20-Sep-95	Water	MW-17A	0.5±0.9	0.4
953376-3	20-Sep-95	Water	MW-16A	0.6±0.7	0.4
953376-4	20-Sep-95	Water	MW-11A	0.0±0.4	0.4
953376-5	20-Sep-95	Water	MW-13A	0.0±0.5	0.4

BARRINGER LABORATORIES INC.
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13-Oct-95
Page: R-3
Job: 953376E
Status: Final

CEIMIC CORPORATION

Analyte: Uranium
Fraction: Total
Method: ASTM D2907
Units: mg/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/09
LLD: 0.0003

Lab Id	Date Sampled	Matrix	Sample Id	Concentration	LLD
953376-1	20-Sep-95	Water	MW-15	0.0499	0.0003
953376-2	20-Sep-95	Water	MW-17A	0.0082	0.0003
953376-3	20-Sep-95	Water	MW-16A	0.0109	0.0003
953376-4	20-Sep-95	Water	MW-11A	0.0038	0.0003
953376-5	20-Sep-95	Water	MW-13A	0.0028	0.0003

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QUALITY CONTROL REPORT

Sample Id	Gross Alpha Total pCi/l	± 2σ	Gross Beta Total pCi/l	± 2σ
Duplicate	76	±35	92	±26
Duplicate	148	±43	116	±27
RER	1.18		0.55	
Std (found value)	85	±4	97	±2
Std (true value)	96		95	
Std % rec.	88		103	
Blank	1.5	±0.6	0.8	±0.5
Spike % rec.	100		98	

Sample Id	Radium Total pCi/l	± 2σ	U-234 Total pCi/l	± 2σ
Duplicate	3.8	±3.6	0.0	±0.4
Duplicate	3.0	±3.3	0.7	±1.3
RER	0.15		0.53	
Std (found value)	108	±4	86	±4
Std (true value)	104		95	
Std % rec.	104		91	
Blank	0.0	±0.6	0.0	±0.2
Spike % rec.	75		87	

Sample Id	U-235 Total pCi/l	± 2σ	U-238 Total pCi/l	± 2σ
Duplicate	0.0	±0.4	0.0	±0.5
Duplicate	0.0	±0.9	0.2	±1.1
RER	0.00		0.20	
Std (found value)	4.4	±1.4	94	±4
Std (true value)	4.3		92	
Std % rec.	103		103	
Blank	0.0	±0.2	0.05	±0.29
Spike % rec.	92		94	

BARRINGER LABORATORIES INC.
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13-Oct-95
Page: Q-2
Job: 953376E
Status: Final

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Uranium Total mg/l
Duplicate	U
Duplicate	U
RPD	0.0
Std (found value)	0.507
Std (true value)	0.500
Std % rec.	101
Blank	U
Spike % rec.	94

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: Q-3

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950726-Blairsville PO #:

Job: 953376E Status: Final

Abbreviations:

Parameters:

U-234	: Uranium-234
U-235	: Uranium-235
U-238	: Uranium-238

Units:

pCi/l	: picoCuries per liter
mg/l	: milligrams per liter

Quality codes:

U	: Undetected

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: Q-4

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950726-Blairsville PO #:

Job: 953376E Status: Final

QUALITY CONTROL DATA SHEET

Received by: cs Via: UPS

Sample Container Type: 1l pl
Additional Lab Preparation: None

Parameter	Method	Preservative	Init	Analysis Dates
Gross Alpha	900.0	HNO3	EM	10/02-10/05
Gross Beta	900.0	HNO3	EM	10/02-10/05
Radium	903.0	HNO3	JP	10/09-10/11
U-234	908.0	HNO3	CN	10/06-10/12
U-235	908.0	HNO3	CN	10/06-10/12
U-238	908.0	HNO3	CN	10/06-10/12
U	ASTM D2907	HNO3	AM	10/06-10/09

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

BARRINGER LABORATORIES INC.
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I N V O I C E

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Date : 16-Oct-95
Job : 953376E
Invoice: 53425E

PO # :
Project: 950726-Blairsville Terms: Net 30 days

Sample Type: Water

Analyses:

5	Gross Alpha-Beta:Total	55.00	$ 275.00
5	Radium:Total	75.00	$ 375.00
5	U-234:Total		
5	U-235:Total		
5	U-238:Total	120.00	$ 600.00
5	U:Total	35.00	$ 175.00
	TOTAL DUE:		$1425.00

Remit to: Barringer Laboratories, Inc.
Dept #74
Denver, Co 80256-0074

--- **Original** ---

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

I N V O I C E

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Date : **16-Oct-95**
Job : **953376E**
Invoice: **53425E**

PO # :
Project: 950726-Blairsville Terms: Net 30 days

Sample Type: Water

Analyses:

5	Gross Alpha-Beta:Total	55.00	$ 275.00
5	Radium:Total	75.00	$ 375.00
5	U-234:Total		
5	U-235:Total		
5	U-238:Total	120.00	$ 600.00
5	U:Total	35.00	$ 175.00

TOTAL DUE: $1425.00

Remit to: Barringer Laboratories, Inc.
Dept #74
Denver, Co 80256-0074

--- Remittance Copy ---

Meeting The Analytical Challenges Of A Changing World

2960 753376

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 950726

Project name BLAIRSVILLE

Samplers (Please print) Cummings Ritter

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers	Analyses: GROSS α + β	TOTAL RADIUM	TOTAL URANIUM ISOTOPES						Remarks
9/20/95	915	grab	MW-15	Aq	5	2	1	2						
	1020		MW-17A	Aq	5	2	1	2						
	1115		MW-16A	Aq	5	2	1	2						
	1220		MW-11A	Aq	5	2	1	2						
	1310		MW-13A	Aq	5	2	1	2						

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Michael V. Torre	9/22/95	0880 4085 267 UPS 0880 4085 258	9/22/95
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		C Stephenson	09/25/95 0840
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Remarks:

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 22-Sep-95 09:30
Project: 950726-Blairsville PO #:

Job: 953364E Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i

ANALYTICAL RESULTS.....R-1

QUALITY CONTROL REPORT.....Q-1

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: i

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Project: 950726-Blairsville PO #:

Received: 22-Sep-95 09:30

Job: 953364E Status: Final

CASE NARRATIVE

A total of 9 Water samples were received on 22-Sep-95. As stated in the chain of custody, the samples were run for the following analyses: Gross Alpha, Gross Beta, Radium, U-234, U-235, U-238 and U. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed: .....
Radiochemistry Manager

Signed: .....
Project Review

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: ii

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 22-Sep-95 09:30
Project: 950726-Blairsville PO #:

Job: 953364E Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
953364-1	Water	EB-1	19-Sep-95
953364-2	Water	GW-1	19-Sep-95
953364-3	Water	MW-7A	19-Sep-95
953364-4	Water	MW-6A	19-Sep-95
953364-5	Water	MW-6B	19-Sep-95
953364-6	Water	MW-6BMS	19-Sep-95
953364-7	Water	MW-6BMSD	19-Sep-95
953364-8	Water	MW-8A	19-Sep-95
953364-9	Water	MW-8B	19-Sep-95

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: R-1
Job: 953364E
Status: Final

CEIMIC CORPORATION

Analyte: Gross Alpha
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/02-10/05
LLD: 2

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.3±0.7	2
953364-2	19-Sep-95	Water	GW-1	0.8±1.2	2
953364-4	19-Sep-95	Water	MW-6A	80±19	2
953364-5	19-Sep-95	Water	MW-6B	4.4±2.7	2
953364-6	19-Sep-95	Water	MW-6BMS	564±32	2
953364-7	19-Sep-95	Water	MW-6BMSD	462±28	2
953364-8	19-Sep-95	Water	MW-8A	391±93	2
953364-9	19-Sep-95	Water	MW-8B	1.8±1.7	2

Analyte: Gross Beta
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/02-10/05
LLD: 4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.9±2.1	4
953364-2	19-Sep-95	Water	GW-1	0.3±2.1	4
953364-4	19-Sep-95	Water	MW-6A	64±12	4
953364-5	19-Sep-95	Water	MW-6B	3.9±2.3	4
953364-6	19-Sep-95	Water	MW-6BMS	439±13	4
953364-7	19-Sep-95	Water	MW-6BMSD	443±13	4
953364-8	19-Sep-95	Water	MW-8A	236±54	4
953364-9	19-Sep-95	Water	MW-8B	1.8±2.1	4

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

CEIMIC CORPORATION

Analyte: Radium
Fraction: Total
Method: 903.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/05-10/11
LLD: 1

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.0±0.8	1
953364-2	19-Sep-95	Water	GW-1	0.1±0.8	1
953364-3	19-Sep-95	Water	MW-7A	0.3±0.9	1
953364-4	19-Sep-95	Water	MW-6A	2.2±1.1	1
953364-5	19-Sep-95	Water	MW-6B	0.4±0.9	1
953364-6	19-Sep-95	Water	MW-6BMS	108±5	1
953364-7	19-Sep-95	Water	MW-6BMSD	94±4	1
953364-8	19-Sep-95	Water	MW-8A	2.3±1.8	1
953364-9	19-Sep-95	Water	MW-8B	1.6±1.6	1

Analyte: U-234
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.0±0.7	0.4
953364-2	19-Sep-95	Water	GW-1	0.1±0.7	0.4
953364-3	19-Sep-95	Water	MW-7A	0.3±0.8	0.4
953364-4	19-Sep-95	Water	MW-6A	0.2±0.8	0.4
953364-5	19-Sep-95	Water	MW-6B	0.8±0.8	0.4
953364-6	19-Sep-95	Water	MW-6BMS	198±10	0.4
953364-7	19-Sep-95	Water	MW-6BMSD	207±10	0.4
953364-8	19-Sep-95	Water	MW-8A	2.8±1.3	0.4
953364-9	19-Sep-95	Water	MW-8B	0.0±0.6	0.4

Analyte: U-235
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.0±0.5	0.4
953364-2	19-Sep-95	Water	GW-1	0.0±0.5	0.4
953364-3	19-Sep-95	Water	MW-7A	0.0±0.6	0.4
953364-4	19-Sep-95	Water	MW-6A	0.0±0.5	0.4
953364-5	19-Sep-95	Water	MW-6B	0.0±0.4	0.4
953364-6	19-Sep-95	Water	MW-6BMS	11.3±4.4	0.4
953364-7	19-Sep-95	Water	MW-6BMSD	9.8±4.9	0.4
953364-8	19-Sep-95	Water	MW-8A	0.0±0.4	0.4
953364-9	19-Sep-95	Water	MW-8B	0.0±0.5	0.4

BARRINGER LABORATORIES INC.
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Job: 953364E
Status: Final

CEIMIC CORPORATION

Analyte: U-238
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/12
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953364-1	19-Sep-95	Water	EB-1	0.0±0.5	0.4
953364-2	19-Sep-95	Water	GW-1	0.3±0.8	0.4
953364-3	19-Sep-95	Water	MW-7A	0.0±0.6	0.4
953364-4	19-Sep-95	Water	MW-6A	0.1±0.7	0.4
953364-5	19-Sep-95	Water	MW-6B	0.1±0.6	0.4
953364-6	19-Sep-95	Water	MW-6BMS	227±10	0.4
953364-7	19-Sep-95	Water	MW-6BMSD	216±10	0.4
953364-8	19-Sep-95	Water	MW-8A	2.2±1.1	0.4
953364-9	19-Sep-95	Water	MW-8B	0.0±0.5	0.4

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13-Oct-95
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Job: 953364E
Status: Final

CEIMIC CORPORATION

Analyte: Uranium
Fraction: Total
Method: ASTM D2907
Units: mg/l

Project: 950726-Blairsville
Date Analyzed: 10/06-10/09
LLD: 0.0003

Lab Id	Date Sampled	Matrix	Sample Id	Concentration	LLD
953364-1	19-Sep-95	Water	EB-1	0.0009	0.0003
953364-2	19-Sep-95	Water	GW-1	0.0006	0.0003
953364-3	19-Sep-95	Water	MW-7A	0.0054	0.0003
953364-4	19-Sep-95	Water	MW-6A	0.0051	0.0003
953364-5	19-Sep-95	Water	MW-6B	0.0021	0.0003
953364-6	19-Sep-95	Water	MW-6BMS	0.151	0.0003
953364-7	19-Sep-95	Water	MW-6BMSD	0.150	0.0003
953364-8	19-Sep-95	Water	MW-8A	0.0145	0.0003
953364-9	19-Sep-95	Water	MW-8B	0.0028	0.0003

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13-Oct-95
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Job: 953364E
Status: Final

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Gross Alpha Total pCi/l	± 2σ	Gross Beta Total pCi/l	± 2σ
Duplicate	1.8	±1.7	1.8	±2.1
Duplicate	2.1	±1.7	2.2	±2.2
RER	0.14		0.15	
Std (found value)	98	±4	97	±2
Std (true value)	96		95	
Std % rec.	102		102	
Blank	0.6	±0.5	0.8	±0.5
Spike % rec.	100		98	
MS (found value)	564	±32	439	±13
MS (true value)	462		455	
MS % rec.	122		97	
MSD (found value)	462	±28	443	±13
MSD (true value)	462		455	
MSD % rec.	100		98	

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QUALITY CONTROL REPORT

Sample Id	Radium Total pCi/l	± 2σ	U-234 Total pCi/l	± 2σ
Duplicate	1.6	±1.6	0.0	±0.6
Duplicate	1.4	±1.5	0.0	±1.0
RER	0.13		0.00	
Std (found value)	103	±3	86	±4
Std (true value)	104		95	
Std % rec.	99		91	
Blank	0.0	±0.6	0.0	±0.2
Spike % rec.	78		87	
MS (found value)	108	±5	198	±10
MS (true value)	139		238	
MS % rec	78		83	
MSD (found value)	94	±4	207	±10
MSD (true value)	139		238	
MSD % rec	68		87	

Sample Id	U-235 Total pCi/l	± 2σ	U-238 Total pCi/l	± 2σ
Duplicate	0.0	±0.5	0.0	±0.5
Duplicate	0.0	±1.0	0.0	±1.1
RER	0.00		0.00	
Std (found value)	4.4	±1.4	94	±4
Std (true value)	4.3		92	
Std % rec.	103		103	
Blank	0.0	±0.2	0.05	±0.29
Spike % rec.	92		94	
MS (found value)	11.3	±4.4	227	±10
MS (true value)	10.7		230	
MS % rec	106		99	
MSD (found value)	9.8	±4.9	216	±10
MSD (true value)	10.7		230	
MSD % rec	92		94	

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QUALITY CONTROL REPORT

Sample Id	Uranium Total mg/l
Duplicate	0.0105
Duplicate	0.0107
RPD	2.1
Std (found value)	0.530
Std (true value)	0.500
Std % rec.	106
Blank	U
Spike % rec.	95
MS (found value)	0.151
MS (true value)	0.159
MS % rec	95
MSD (found value)	0.150
MSD (true value)	0.159
MSD % rec	94

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13-Oct-95
Page: Q-4

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 22-Sep-95 09:30
Project: 950726-Blairsville PO #:

Job: 953364E Status: Final

Abbreviations:

Parameters:

U-234	: Uranium-234
U-235	: Uranium-235
U-238	: Uranium-238

Units:

pCi/l	: picoCuries per liter
mg/l	: milligrams per liter

Quality codes:

U	: Undetected

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

13-Oct-95
Page: Q-5

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 22-Sep-95 09:30
Project: 950726-Blairsville PO #:

Job: 953364E Status: Final

QUALITY CONTROL DATA SHEET

Received by: cs Via: UPS

Sample Container Type: 1l pl
Additional Lab Preparation: None

Parameter	Method	Preservative	Init	Analysis Dates
Gross Alpha	900.0	HNO3	EM	10/02-10/05
Gross Beta	900.0	HNO3	EM	10/02-10/05
Radium	903.0	HNO3	JP	10/05-10/11
U-234	908.0	HNO3	CR	10/06-10/12
U-235	908.0	HNO3	CR	10/06-10/12
U-238	908.0	HNO3	CR	10/06-10/12
U	ASTM D2907	HNO3	AM	10/06-10/09

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

I N V O I C E

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Date : 16-Oct-95
Job : 953364E
Invoice: 53413E

PO # :
Project: 950726-Blairsville Terms: Net 30 days

Sample Type: Water

Analyses:

8	Gross Alpha-Beta:Total	55.00	$ 440.00
9	Radium:Total	75.00	$ 675.00
9	U-234:Total		
9	U-235:Total		
9	U-238:Total	120.00	$1080.00
9	U:Total	35.00	$ 315.00

TOTAL DUE: $2510.00

Remit to: Barringer Laboratories, Inc.
Dept #74
Denver, Co 80256-0074

--- Original ---

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

INVOICE

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Date : 16-Oct-95
Job : 953364E
Invoice: 53413E

PO # :
Project: 950726-Blairsville Terms: Net 30 days

Sample Type: Water

Analyses:

8	Gross Alpha-Beta:Total	55.00	$ 440.00
9	Radium:Total	75.00	$ 675.00
9	U-234:Total		
9	U-235:Total		
9	U-238:Total	120.00	$1080.00
9	U:Total	35.00	$ 315.00

TOTAL DUE: $2510.00

Remit to: Barringer Laboratories, Inc.
Dept #74
Denver, Co 80256-0074

--- Remittance Copy ---

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 950726

Project name BLAIRSVILLE

Samplers (Please print) CUMMINGS RITER

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers	Gross α + β	Total Radium	Total Uranium/Isotopes						Remarks
9/19/95	1600	grab	EB-1	Aq	5	2	1	2						950726-08
	1415		GW-1		5	2	1	2						-09
	1310		MW-7A		3	—	1	2						-10
	910		MW-6A		5	2	1	2						-11
	1010		MW-6B		5	2	1	2						-12
	1010		MW-6B MS		5	2	1	2						-12
	1010		MW-6B MSD		5	2	1	2						-12
	1210		MW-8A		5	2	1	2						-13
	1230		MW-8B		5	2	1	2						-14

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Michael V Torio	9/21/95	0880 4085 052 UPS 0880 4085 043	9/21/95
		C Stephenson	09/22/95 0930

Remarks: Please contact Carla Rodman with any questions

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

BARRINGER LABORATORIES INC.
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16-Oct-95

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950745-Blairsville PO #:

Job: 953384E Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i

ANALYTICAL RESULTS.....R-1

QUALITY CONTROL REPORT.....Q-1

BARRINGER LABORATORIES INC.
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16-Oct-95
Page: i

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Project: 950745-Blairsville PO #:

Received: 25-Sep-95 08:40

Job: 953384E Status: Final

CASE NARRATIVE

A total of 5 Water samples were received on 25-Sep-95. As stated in the chain of custody, the samples were run for the following analyses: Gross Alpha, Gross Beta, Radium, U-234, U-235, U-238 and U. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed: .....
Radiochemistry
Manager

Signed: .....
Project Review

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

16-Oct-95
Page: ii

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950745-Blairsville PO #:

Job: 953384E Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
953384-1	Water	MW-12A	21-Sep-95
953384-2	Water	MW-3	21-Sep-95
953384-3	Water	Dup-2	21-Sep-95
953384-4	Water	MW-9A	21-Sep-95
953384-5	Water	MW-2	21-Sep-95

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

16-Oct-95
Page: R-1
Job: 953384E
Status: Final

CEIMIC CORPORATION

Analyte: Gross Alpha
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/02-10/05
LLD: 2

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	5.7±3.1	2
953384-2	21-Sep-95	Water	MW-3	19±7	2
953384-3	21-Sep-95	Water	Dup-2	16±7	2
953384-4	21-Sep-95	Water	MW-9A	40±15	2
953384-5	21-Sep-95	Water	MW-2	76±35	2

Analyte: Gross Beta
Fraction: Total
Method: 900.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/02-10/05
LLD: 4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	8.6±2.8	4
953384-2	21-Sep-95	Water	MW-3	13±5	4
953384-3	21-Sep-95	Water	Dup-2	14±6	4
953384-4	21-Sep-95	Water	MW-9A	96±12	4
953384-5	21-Sep-95	Water	MW-2	92±26	4

Analyte: Radium
Fraction: Total
Method: 903.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/09-10/11
LLD: 1

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	0.0±2.4	1
953384-2	21-Sep-95	Water	MW-3	3.8±3.6	1
953384-3	21-Sep-95	Water	Dup-2	3.5±2.8	1
953384-4	21-Sep-95	Water	MW-9A	5.1±3.1	1
953384-5	21-Sep-95	Water	MW-2	5.5±3.7	1

Analyte: U-234
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/09-10/13
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	0.0±0.6	0.4
953384-2	21-Sep-95	Water	MW-3	0.6±0.9	0.4
953384-3	21-Sep-95	Water	Dup-2	0.2±0.7	0.4
953384-4	21-Sep-95	Water	MW-9A	0.8±0.9	0.4
953384-5	21-Sep-95	Water	MW-2	1.4±1.1	0.4

BARRINGER LABORATORIES INC.
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Analyte: U-235
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/09-10/13
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	0.0±0.5	0.4
953384-2	21-Sep-95	Water	MW-3	0.0±0.5	0.4
953384-3	21-Sep-95	Water	Dup-2	0.0±0.5	0.4
953384-4	21-Sep-95	Water	MW-9A	0.0±0.5	0.4
953384-5	21-Sep-95	Water	MW-2	0.0±0.5	0.4

Analyte: U-238
Fraction: Total
Method: 908.0
Units: pCi/l

Project: 950745-Blairsville
Date Analyzed: 10/09-10/13
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953384-1	21-Sep-95	Water	MW-12A	0.0±0.7	0.4
953384-2	21-Sep-95	Water	MW-3	0.2±0.8	0.4
953384-3	21-Sep-95	Water	Dup-2	0.0±0.6	0.4
953384-4	21-Sep-95	Water	MW-9A	0.6±0.9	0.4
953384-5	21-Sep-95	Water	MW-2	0.4±0.8	0.4

BARRINGER LABORATORIES INC.
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16-Oct-95
Page: R-3
Job: 953384E
Status: Final

CEIMIC CORPORATION

Analyte: Uranium
Fraction: Total
Method: ASTM D2907
Units: mg/l

Project: 950745-Blairsville
Date Analyzed: 10/13-10/16
LLD: 0.0003

Lab Id	Date Sampled	Matrix	Sample Id	Concentration	LLD
953384-1	21-Sep-95	Water	MW-12A	0.0020	0.0003
953384-2	21-Sep-95	Water	MW-3	0.0017	0.0003
953384-3	21-Sep-95	Water	Dup-2	0.0020	0.0003
953384-4	21-Sep-95	Water	MW-9A	0.0034	0.0003
953384-5	21-Sep-95	Water	MW-2	0.0028	0.0003

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QUALITY CONTROL REPORT

Sample Id	Gross Alpha Total pCi/l	± 2σ	Gross Beta Total pCi/l	± 2σ
Duplicate	76	±35	92	±26
Duplicate	148	±43	116	±27
RER	1.18		0.55	
Std (found value)	85	±4	97	±2
Std (true value)	96		95	
Std % rec.	88		103	
Blank	1.5	±0.6	0.8	±0.5
Spike % rec.	100		98	

Sample Id	Radium Total pCi/l	± 2σ	U-234 Total pCi/l	± 2σ
Duplicate	5.5	±3.7	1.4	±1.1
Duplicate	4.2	±3.5	3.9	±2.3
RER	0.27		0.94	
Std (found value)	108	±4	98	±4
Std (true value)	104		95	
Std % rec.	104		104	
Blank	0.0	±0.6	0.0	±0.2
Spike % rec.	73		94	

Sample Id	U-235 Total pCi/l	± 2σ	U-238 Total pCi/l	± 2σ
Duplicate	0.0	±0.5	0.4	±0.8
Duplicate	0.0	±1.2	3.9	±2.3
RER	0.00		1.39	
Std (found value)	4.7	±1.0	95	±4
Std (true value)	4.3		92	
Std % rec.	110		103	
Blank	0.0	±0.2	0.0	±0.2
Spike % rec.	110		102	

BARRINGER LABORATORIES INC.
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CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Uranium Total mg/l
Duplicate	U
Duplicate	U
RPD	0.0
Std (found value)	1.568
Std (true value)	1.570
Std % rec.	100
Blank	U
Spike % rec.	97

BARRINGER LABORATORIES INC.
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16-Oct-95
Page: Q-3

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950745-Blairsville PO #:

Job: 953384E Status: Final

Abbreviations:

Parameters:

U-234	: Uranium-234
U-235	: Uranium-235
U-238	: Uranium-238

Units:

pCi/l	: picoCuries per liter
mg/l	: milligrams per liter

Quality codes:

U	: Undetected

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

16-Oct-95
Page: Q-4

Jill Kielarowski
CEIMIC CORPORATION
Penn Center West II, Suite 103
Pittsburgh, PA 15276

Attn:
Received: 25-Sep-95 08:40
Project: 950745-Blairsville PO #:

Job: 953384E Status: Final

QUALITY CONTROL DATA SHEET

Received by: cs Via: UPS

Sample Container Type: 1l pl
Additional Lab Preparation: None

Parameter	Method	Preservative	Init	Analysis Dates
Gross Alpha	900.0	HNO3	EM	10/02-10/05
Gross Beta	900.0	HNO3	EM	10/02-10/05
Radium	903.0	HNO3	JP	10/09-10/11
U-234	908.0	HNO3	CR	10/09-10/13
U-235	908.0	HNO3	CR	10/09-10/13
U-238	908.0	HNO3	CR	10/09-10/13
U	ASTM D2907	HNO3	AM	10/13-10/16

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

August 31, 1995

Mr. Bill Baughman
Cummings/Riter Consultants, Inc.
339 Haymaker Road
Parkway Building/Suite 201
Monroeville, PA 15146

Dear Mr. Baughman:

Enclosed are the results for the analyses performed in support of the Cummings Riter Consultants, Blairsville - Westinghouse Project No. 93-132. The samples were taken from the field on August 7th, 8th, 9th, and 10th, 1995 and received at Ceimic Corporation on August 12, 1995.

The results for the radioactive isotopes are not contained in this data package and are estimated to be completed during the week of September 11th.

These samples are reported under the Ceimic Project Number 950610, which can be referenced when inquiring about this project.

If you have any questions or concerns regarding this data, please call me at the telephone number listed below.

Sincerely,

Neil Pothier, Ph.D.
Laboratory Manager

NP/jmf

Enclosures

10 Dean Knauss Drive, Narragansett, RI 02882 • Tel: (401) 782-8900 • Fax: (401) 782-8905

METAL ANALYSES

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

METHOD BLANK
TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Ceimic Project: 950610

Blank ID: PBS

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	ND	8

ND = Not Detected
Dry weight basis.

Reported by: _____

Approved by: _____

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-45_S-3

Date Sampled: 08/08/95

Laboratory ID: 950610-03

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 82

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	735	9

Dry weight basis.

Reported by: Dwayne W Dunlap

Approved by: Alan Chang

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-45_S-7

Date Sampled: 08/08/95

Laboratory ID: 950610-04

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 83

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	3240	8

Dry weight basis.

Reported by: _____

Approved by: Alan Chang

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-46_S-1

Date Sampled: 08/07/95

Laboratory ID: 950610-01

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 81

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	122	8

+ Dry weight basis.

Reported by: _____

Approved by: _____

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-46_S-3

Date Sampled: 08/07/95

Laboratory ID: 950610-02

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 88

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	65	9

+ Dry weight basis.

Reported by: _____

Approved by: Stan Chang

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-47_S-5

Date Sampled: 08/08/95

Laboratory ID: 950610-05

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 81

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	791	9

+ Dry weight basis.

Reported by: Douglas W. Smith

Approved by: Alan Chang

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-47_S-9

Date Sampled: 08/08/95

Laboratory ID: 950610-06

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 86

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	3330	7

Dry weight basis.

Reported by: Dwayne W. Dahl

Approved by: Alan Chang

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-48_S-5

Date Sampled: 08/09/95

Laboratory ID: 950610-07

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 89

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	831	7

+ Dry weight basis.

Reported by: _____

Approved by: _____

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-48_S-9

Date Sampled: 08/09/95

Laboratory ID: 950610-08

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 86

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	3220	8

+ Dry weight basis.

Reported by: _____ Approved by: Alan Chang

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CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-49_S-1

Date Sampled: 08/10/95

Laboratory ID: 950610-09

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 80

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	160	8

+ Dry weight basis.

Reported by: _____

Approved by: _____

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CEIMIC
Corporation

"Analytical Chemistry for Environmental Management"

TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Client Sample ID: B-49_S-3

Date Sampled: 08/10/95

Laboratory ID: 950610-10

Date Sample Received: 08/12/95

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)+

Percent Solids: 83

Target Analyte	Preparation Batch	Sample Concentration	Quantitation Limit
Nickel	0817	299	8

+ Dry weight basis.

Reported by: _____ Approved by: _____

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

LABORATORY CONTROL SAMPLE SUMMARY
TOTAL METALS
SW846 METHOD 6010

Client: Cummings Riter Consultants

Ceimic Project: 950610

Laboratory Control Spike ID: LCSS

Date Analysis Completed: 08/18/95

Matrix: Soil

Concentration in: mg/Kg (ppm)

Target Analyte	Preparation Batch	True Value	Lab Control Spike Result	Lab Control Spike Recovery(%)	QC Limits(%)
Nickel	0817	135	114	84.4	55.0 - 146

Reported by: _____

Approved by: _____

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CHAIN OF CUSTODY

CUMMINGS RITE CONSULTANTS, INC.

Chain of Custody Record

Lab Quote # _____

Project Name: Blairsville
Project Location: Blairsville PA
Project Number: 93-132
Sampled By: (print) Daniel P. Cusick

Results To: William A. Baughman
Company: Cummings / Rite
Address: 339 Haymaker Road
Monroeville PA 15146
Phone: (412) 373-5240

Invoice To:
Company:
Address:
Phone:

Lab ID	Sample Identification	Date	Time	Grab	Composite	Sample Matrix	No. of Bottles (4oz)	Nickel	Gross Alpha	Gross Beta	Total Uranium	Uranium Isotopes	Total Radium					HCL	HNO3	H2SO4	NaOH	Remarks
	B-46 S-1	8-7-95	14:00	✓		Soil	1	✓	✓	✓	✓	✓	✓									
	B-46 S-3	8-7-95	14:10	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-45 S-3	8-8-95	10:00	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-45 S-7	8-8-95	11:00	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-47 S-5	8-8-95	14:30	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-47 S-9	8-8-95	15:00	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-48 S-5	8-9-95	15:00	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-48 S-9	8-9-95	15:30	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-49 S-1	8-10-95	08:00	✓		"	1	✓	✓	✓	✓	✓	✓									
	B-49 S-3	8-10-95	08:30	✓		"	1	✓	✓	✓	✓	✓	✓									

Turnaround Time Required: Normal ✓ Rush ___

Sample Disposal: Return to Client ___ Disposal by Lab ✓

Known Hazard (flammable/toxic): Yes (comment below) ___ No ✓

	Relinquished By: (signature)	Date	Time	Received By: (signature)
1.	Daniel P. Cusick	8/10/95	1620	[signature]
2.	[signature]	8/11/95	1035	L. Kulaiowski
3.		8/12/95	10:00	[signature]

Special Instructions/Comments:

Sample Condition Upon Receipt: Cooler Temp: 13°C

CEIMIC
Corporation
"Analytical Chemistry for Environmental Management"

October 2, 1995

Mr. Bill Baughman
Cummings/Riter Consultants, Inc.
339 Haymaker Road
Parkway Building/Suite 201
Monroeville, PA 15146

Dear Mr. Baughman:

Enclosed are the radioactive isotopes results for the analyses performed in support of the Cummings Riter Consultants, Blairsville - Westinghouse Project No. 93-132. The samples were taken from the field on August 7th, 8th, 9th, and 10th, 1995 and received at Ceimic Corporation on August 12, 1995.

These samples are reported under the Ceimic Project Number 950610, which can be referenced when inquiring about this project.

If you have any questions or concerns regarding this data, please call me at the telephone number listed below.

Sincerely,

Neil Pothier, Ph.D.
Laboratory Manager

NP/jmf

Enclosures

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BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95

CEIMIC CORPORATION
10 Dean Knauss Drive
Narragansett, RI 02882

Attn:
Received: 16-Aug-95 09:55
Project: 950610 - Ceimic
PO #:

Job: 953019E
Status: Final

ANALYTICAL REPORT PACKAGE

CASE NARRATIVE.....i

ANALYTICAL RESULTS.....R-1

QUALITY CONTROL REPORT.....Q-1

BARRINGER LABORATORIES INC.
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22-Sep-95
Page: i

CEIMIC CORPORATION
10 Dean Knauss Drive
Narragansett, RI 02882

Attn:
Received: 16-Aug-95 09:55
Project: 950610 - Ceimic
PO #:

Job: 953019E
Status: Final

CASE NARRATIVE

A total of 10 Soil samples were received on 16-Aug-95. As stated in the chain of custody, the samples were run for the following analyses: Gross Alpha, Gross Beta, U-234, U-235, U-238, Radium and U. A table, to cross reference your sample ID to ours, is attached. Our procedures are summarized on the Quality Control Data Sheet.

Quality control standards for organic and inorganic analyses followed the appropriate SW-846 or EPA methodology. Quality control standards for radiochemistry followed our standard operating procedures or contractual requirements.

Signed: .....
Radiochemistry
Manager

Signed: .....
Project Review

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: ii

CEIMIC CORPORATION
10 Dean Knauss Drive
Narragansett, RI 02882

Attn:
Received: 16-Aug-95 09:55
Project: 950610 - Ceimic
PO #:

Job: 953019E
Status: Final

Lab-ID	Matrix	Client Sample ID	Sampled
953019-1	Soil	B-46 S-1	7-Aug-95
953019-2	Soil	B-46 S-3	7-Aug-95
953019-3	Soil	B-45 S-3	8-Aug-95
953019-4	Soil	B-45 S-7	8-Aug-95
953019-5	Soil	B-47 S-5	8-Aug-95
953019-6	Soil	B-47 S-9	8-Aug-95
953019-7	Soil	B-48 S-5	9-Aug-95
953019-8	Soil	B-48 S-9	9-Aug-95
953019-9	Soil	B-49 S-1	10-Aug-95
953019-10	Soil	B-49 S-3	10-Aug-95

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22-Sep-95
Page: R-1
Job: 953019E
Status: Final

CEIMIC CORPORATION

Analyte: Gross Alpha
Fraction: Total
Method: 900.0
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/15-09/21
LLD: 2

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	5.7±4.4	2
953019-2	7-Aug-95	Soil	B-46 S-3	11±5	2
953019-3	8-Aug-95	Soil	B-45 S-3	5.3±3.9	2
953019-4	8-Aug-95	Soil	B-45 S-7	7.1±4.2	2
953019-5	8-Aug-95	Soil	B-47 S-5	15±5	2
953019-6	8-Aug-95	Soil	B-47 S-9	25±6	2
953019-7	9-Aug-95	Soil	B-48 S-5	66±9	2
953019-8	9-Aug-95	Soil	B-48 S-9	22±6	2
953019-9	10-Aug-95	Soil	B-49 S-1	18±5	2
953019-10	10-Aug-95	Soil	B-49 S-3	9.0±4.1	2

Analyte: Gross Beta
Fraction: Total
Method: 900.0
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/15-09/21
LLD: 4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	12±6	4
953019-2	7-Aug-95	Soil	B-46 S-3	15±6	4
953019-3	8-Aug-95	Soil	B-45 S-3	2.2±5.0	4
953019-4	8-Aug-95	Soil	B-45 S-7	9.1±5.3	4
953019-5	8-Aug-95	Soil	B-47 S-5	18±6	4
953019-6	8-Aug-95	Soil	B-47 S-9	25±6	4
953019-7	9-Aug-95	Soil	B-48 S-5	83±8	4
953019-8	9-Aug-95	Soil	B-48 S-9	23±6	4
953019-9	10-Aug-95	Soil	B-49 S-1	16±6	4
953019-10	10-Aug-95	Soil	B-49 S-3	10±5	4

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22-Sep-95
Page: R-2
Job: 953019E
Status: Final

CEIMIC CORPORATION

Analyte: U-234
Fraction: Total
Method: 908.0
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/07-09/11
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	0.4±0.6	0.4
953019-2	7-Aug-95	Soil	B-46 S-3	2.4±1.0	0.4
953019-3	8-Aug-95	Soil	B-45 S-3	0.1±0.5	0.4
953019-4	8-Aug-95	Soil	B-45 S-7	0.4±0.6	0.4
953019-5	8-Aug-95	Soil	B-47 S-5	3.2±1.2	0.4
953019-6	8-Aug-95	Soil	B-47 S-9	3.2±1.2	0.4
953019-7	9-Aug-95	Soil	B-48 S-5	0.4±0.6	0.4
953019-8	9-Aug-95	Soil	B-48 S-9	9.9±1.9	0.4
953019-9	10-Aug-95	Soil	B-49 S-1	2.5±1.1	0.4
953019-10	10-Aug-95	Soil	B-49 S-3	0.7±0.7	0.4

Analyte: U-235
Fraction: Total
Method: 908.0
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/07-09/11
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	0.0±0.4	0.4
953019-2	7-Aug-95	Soil	B-46 S-3	0.0±0.4	0.4
953019-3	8-Aug-95	Soil	B-45 S-3	0.0±0.4	0.4
953019-4	8-Aug-95	Soil	B-45 S-7	0.0±0.4	0.4
953019-5	8-Aug-95	Soil	B-47 S-5	0.0±0.4	0.4
953019-6	8-Aug-95	Soil	B-47 S-9	0.0±0.4	0.4
953019-7	9-Aug-95	Soil	B-48 S-5	0.0±0.4	0.4
953019-8	9-Aug-95	Soil	B-48 S-9	0.0±0.6	0.4
953019-9	10-Aug-95	Soil	B-49 S-1	0.0±0.5	0.4
953019-10	10-Aug-95	Soil	B-49 S-3	0.0±0.4	0.4

BARRINGER LABORATORIES INC.
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22-Sep-95
Page: R-3
Job: 953019E
Status: Final

CEIMIC CORPORATION

Analyte: U-238
Fraction: Total
Method: 908.0
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/07-09/11
LLD: 0.4

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	0.7±0.7	0.4
953019-2	7-Aug-95	Soil	B-46 S-3	0.2±0.6	0.4
953019-3	8-Aug-95	Soil	B-45 S-3	0.4±0.6	0.4
953019-4	8-Aug-95	Soil	B-45 S-7	0.5±0.6	0.4
953019-5	8-Aug-95	Soil	B-47 S-5	1.0±0.8	0.4
953019-6	8-Aug-95	Soil	B-47 S-9	0.8±0.7	0.4
953019-7	9-Aug-95	Soil	B-48 S-5	0.4±0.6	0.4
953019-8	9-Aug-95	Soil	B-48 S-9	4.2±1.3	0.4
953019-9	10-Aug-95	Soil	B-49 S-1	1.0±0.8	0.4
953019-10	10-Aug-95	Soil	B-49 S-3	0.0±0.4	0.4

Analyte: Radium
Fraction: Total
Method: 900.1
Units: pCi/g

Project: 950610 - Ceimic
Date Analyzed: 09/07-09/19
LLD: 1

Lab Id	Date Sampled	Matrix	Sample Id	Concentration± 2σ	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	0.3±0.9	1
953019-2	7-Aug-95	Soil	B-46 S-3	1.0±1.0	1
953019-3	8-Aug-95	Soil	B-45 S-3	0.0±0.8	1
953019-4	8-Aug-95	Soil	B-45 S-7	1.0±1.0	1
953019-5	8-Aug-95	Soil	B-47 S-5	1.8±1.1	1
953019-6	8-Aug-95	Soil	B-47 S-9	2.6±1.2	1
953019-7	9-Aug-95	Soil	B-48 S-5	0.7±1.0	1
953019-8	9-Aug-95	Soil	B-48 S-9	1.0±1.0	1
953019-9	10-Aug-95	Soil	B-49 S-1	1.9±1.0	1
953019-10	10-Aug-95	Soil	B-49 S-3	1.4±1.0	1

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22-Sep-95
Page: R-4
Job: 953019E
Status: Final

CEIMIC CORPORATION

Analyte: Uranium
Fraction: Total
Method: ASTM D2907
Units: µg/g

Project: 950610 - Ceimic
Date Analyzed: 09/11-09/12
LLD: 0.3

Lab Id	Date Sampled	Matrix	Sample Id	Concentration	LLD
953019-1	7-Aug-95	Soil	B-46 S-1	2.7	0.3
953019-2	7-Aug-95	Soil	B-46 S-3	1.9	0.3
953019-3	8-Aug-95	Soil	B-45 S-3	1.2	0.3
953019-4	8-Aug-95	Soil	B-45 S-7	1.5	0.3
953019-5	8-Aug-95	Soil	B-47 S-5	3.1	0.3
953019-6	8-Aug-95	Soil	B-47 S-9	3.4	0.3
953019-7	9-Aug-95	Soil	B-48 S-5	1.9	0.3
953019-8	9-Aug-95	Soil	B-48 S-9	5.0	0.3
953019-9	10-Aug-95	Soil	B-49 S-1	1.9	0.3
953019-10	10-Aug-95	Soil	B-49 S-3	1.6	0.3

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Gross Alpha Total pCi/g	± 2σ	Gross Beta Total pCi/g	± 2σ
Duplicate	5.7	±4.4	12	±6
Duplicate	3.0	±3.9	12	±6
RER	0.45		0.02	
Std (found value)	92	±4	93	±2
Std (true value)	96		95	
Std % rec.	95		99	
Blank	0.0	±0.4	0.1	±0.4
Spike % rec.	107		97	

Sample Id	U-234 Total pCi/g	± 2σ	U-235 Total pCi/g	± 2σ
Duplicate	3.2	±1.2	0.0	±0.4
Duplicate	2.0	±1.0	0.0	±0.5
RER	0.71		0.00	
Std (found value)	176	±10	9.3	±2.4
Std (true value)	170		7.8	
Std % rec.	103		120	
Blank	0.0	±0.2	0.0	±0.2
Spike % rec.	108		111	

Sample Id	U-238 Total pCi/g	± 2σ	Radium Total pCi/g	± 2σ
Duplicate	0.8	±0.7	1.4	±1.0
Duplicate	1.0	±0.8	1.3	±1.1
RER	0.17		0.07	
Std (found value)	179	±10	114	±4
Std (true value)	170		104	
Std % rec.	105		110	
Blank	0.0	±0.2	0.5	±0.4
Spike % rec.	106		105	

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: Q-2
Job: 953019E
Status: Final

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Uranium Total µg/g
Duplicate	5.0
Duplicate	5.0
RPD	0.3
Std (found value)	532
Std (true value)	513
Std % rec.	104
Blank	U
Spike % rec.	102

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: Q-3
Job: 953019E
Status: Final

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	U-234 Total pCi/g	± 2σ	U-235 Total pCi/g	± 2σ
LCS (found)	165	±10	7.2	±2.2
LCS (true)	170		7.8	
% Rec.	97		93	

Sample Id	U-238 Total pCi/g	± 2σ
LCS (found)	160	±10
LCS (true)	170	
% Rec.	94	

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: Q-4
Job: 953019E
Status: Final

CEIMIC CORPORATION

QUALITY CONTROL REPORT

Sample Id	Uranium Total µg/g
LCS (found)	496
LCS (true)	513
% Rec.	97

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: Q-5

CEIMIC CORPORATION
10 Dean Knauss Drive
Narragansett, RI 02882

Attn:
Received: 16-Aug-95 09:55
Project: 950610 - Ceimic
PO #:

Job: 953019E
Status: Final

Abbreviations:

Parameters:

U-234	: Uranium-234
U-235	: Uranium-235
U-238	: Uranium-238

Units:

pCi/g	: picoCuries per gram
pCi/g	: picoCuries per gram as received
µg/g	: micrograms per gram

Quality codes:

U	: Undetected

BARRINGER LABORATORIES INC.
15000 W. 6TH AVE., SUITE 300 GOLDEN, CO 80401 (303) 277-1687 FAX (303) 277-1689

22-Sep-95
Page: Q-6

CEIMIC CORPORATION
10 Dean Knauss Drive
Narragansett, RI 02882

Attn:
Received: 16-Aug-95 09:55
Project: 950610 - Ceimic PO #:

Job: 953019E Status: Final

QUALITY CONTROL DATA SHEET

Received by: cs Via: UPS

Sample Container Type: 4oz gl jar
Additional Lab Preparation: 100 Mesh

Parameter	Method	Preservative	Init	Analysis Dates
Gross Alpha	900.0	None	EM	09/15-09/21
Gross Beta	900.0	None	EM	09/15-09/21
U-234	908.0	None	CR	09/07-09/11
U-235	908.0	None	CR	09/07-09/11
U-238	908.0	None	CR	09/07-09/11
Radium	900.1	None	JP	09/07-09/19
U	ASTM D2907	None	AM	09/11-09/12

Barringer Laboratories, Inc. will return or dispose of your samples 30 days from the date your final report is mailed, unless otherwise specified by contract. Barringer Laboratories, Inc. reserves the right to return samples prior to the 30 days if radioactive levels exceed our license.

953019 1901

CHAIN O. CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 950610

Project name: Ceimic

Samplers (Please print): Cummings Riter Consultants, Inc.

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers	Gross Alpha & Beta	Total Uranium	Uranium Isotopes	Total Radium					Remarks
8/7/95	14:00	G	B-46 S-1	Soil	1	✓	✓	✓	✓					
8/7/95	14:10	G	B-46 S-3		1	✓	✓	✓	✓					
8/8/95	10:00	G	B-45 S-3		1	✓	✓	✓	✓					
8/8/95	11:00	G	B-45 S-7		1	✓	✓	✓	✓					
8/8/95	14:30	G	B-47 S-5		1	✓	✓	✓	✓					
8/8/95	15:00	G	B-47 S-9		1	✓	✓	✓	✓					
8/9/95	15:00	G	B-48 S-5		1	✓	✓	✓	✓					
8/9/95	15:30	G	B-48 S-9		1	✓	✓	✓	✓					
8/10/95	08:00	G	B-49 S-1		1	✓	✓	✓	✓					
8/10/95	08:30	G	B-49 S-3		1	✓	✓	✓	✓					

Subcontracted to Laboratories Inc. Barring of

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	8/10/95 4:00	C Stephenson	08/16/95 0955
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Remarks: For Questions. Contact Carla Rodman at Ceimic (401) 782-8900

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

953019 pg 1

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 950610

Project name: Ceimic

Samplers (Please print): Cummings Riter Consultants, Inc.

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers 4oz.	Gross Alpha & Beta	Total Uranium	Uranium Isotopes	Total Radium					Remarks
8/7/95	14:00	G	B-46 S-1	Soil	1	✓	✓	✓	✓					
8/7/95	14:10	G	B-46 S-3		1	✓	✓	✓	✓					
8/8/95	10:00	G	B-45 S-3		1	✓	✓	✓	✓					
8/8/95	11:00	G	B-45 S-7		1	✓	✓	✓	✓					
8/8/95	14:30	G	B-47 S-5		1	✓	✓	✓	✓					
8/8/95	15:00	G	B-47 S-9		1	✓	✓	✓	✓					
8/8/95	15:00	G	B-48 S-5		1	✓	✓	✓	✓					
8/8/95	15:30	G	B-48 S-9		1	✓	✓	✓	✓					
8/10/95	08:00	G	B-49 S-1		1	✓	✓	✓	✓					
8/10/95	08:30	G	B-49 S-3		1	✓	✓	✓	✓					

Subcontracted to Laboratories of Barrington Inc.

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	8/10/95 4:00	C. Stephenson	08/16/95 0955
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Remarks:
For Questions:
Contact Carla Rodman at
Ceimic (401) 782-8900

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

953019

CHAIN OF CUSTODY

Original Chain of Custody goes to Laboratory

Proj. # 950610

Project name [redacted]

Samplers (Please [redacted]): Cummings Riter Consultants, Inc.

DATE	Time	Comp. / Grab.	Sample Identification	Sample Matrix	Number of containers 4oz.	Gross Alpha & Beta	Total Uranium	Uranium Isotopes	Total Radium					Remarks
8/7/95	14:00	G	B-46 S-1	Soil	1	✓	✓	✓	✓					
8/7/95	14:10	G	B-46 S-3		1	✓	✓	✓	✓					
8/8/95	10:00	G	B-45 S-3		1	✓	✓	✓	✓					
8/8/95	11:00	G	B-45 S-7		1	✓	✓	✓	✓					
8/8/95	14:30	G	B-47 S-5		1	✓	✓	✓	✓					
8/8/95	15:00	G	B-47 S-9		1	✓	✓	✓	✓					
8/8/95	15:00	G	B-48 S-5		1	✓	✓	✓	✓					
8/8/95	15:30	G	B-48 S-9		1	✓	✓	✓	✓					
8/10/95	8:00	G	B-49 S-1		1	✓	✓	✓	✓					
8/10/95	8:30	G	B-49 S-3		1	✓	✓	✓	✓					

Subcontracted to Laboratories Inc. Barrings of

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
[signature]	8/10/95 4:00	C. Stephenson	08/16/95 0955
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time

Remarks:

For Questions:
Contact Paula Rodman at
Ceimic (401) 782-8900

CEIMIC Corporation 10 Dean Knauss Drive, Narragansett, RI 02882 (401) 782-8900 FAX (401) 782-8905

Antech Ltd.

One Triangle Drive • Export, Pennsylvania 15632 • Phone: (412) 733-1161 • Fax: (412) 327-7793

RECEIVED
OCT 30 1995
ESBU
REGULATORY AFFAIRS

October 26, 1995

Mr. Irwin Dobrushin
Westinghouse Electric
P.O. Box 355
Pittsburgh, PA 15230-0353

Soil/Sludge Characterization
Blairsville D&D Project
Antech Ltd. Project No. 95-4579

Dear Mr. Dobrushin:

Enclosed are analytical results for samples submitted by Westinghouse Electric. Samples were received on October 10, 1995 and logged in for analysis on October 11, 1995.

Appropriate U.S. Environmental Protection Agency methods were used and are indicated accordingly on the data tables. Appropriate quality assurance/quality control analyses were performed in accordance with Antech Ltd.'s Statement of Qualifications. If you have any questions, please call me.

Sincerely,

Randal T. Hill
Organic Chemistry Manager

RTH:pyc

Enclosures

ANTECH LTD.
CASE NARRATIVE

I. PROJECT LOGIN INFORMATION:

A: PROJECT NUMBERS:

ANTECH LTD.: 95-4579
CLIENT:

B: SAMPLE IDENTIFICATIONS:

Antech ID	Client ID	Antech ID	Client ID
9510-1292	CP-1	9510-1293	CP-2

C: SHIPPING/RECEIVING COMMENTS:

None

II. PREPARATION/ANALYSIS COMMENTS:

A: PREPARATION:
None

B: METALS:
None

C: ORGANICS:

1. VOLATILES:
None

2. SEMIVOLATILES:
None

3. PESTICIDES/PCBS:
None

III. GENERAL COMMENTS:

Trailing zeroes and decimal places appearing on the data should not be interpreted as precision of the analytical procedure, but rather as a result of reporting format.
Please refer to the enclosed TCLP Regulatory Levels table for appropriate regulatory levels and hazardous waste numbers.

Table 1
General Data Table
Westinghouse Electric
Antech Ltd. Project No. 95-4579
Sludge Characterization
Blairsville D&D Project

Parameter	Analytical Method	Units	Sample Identification: 9510-1292 CP-1 (10/10/95)	Sample Identification: 9510-1294 Method Blank (10/10/95)
Polychlorinated Biphenyls	8080(1)	mg/kg	<1.0	<1.0
TCLP(2) Metals:				
Silver (TCLP)	6010(1)	mg/l	<0.10	<0.10
Arsenic (TCLP)	6010(1)	mg/l	<0.10	<0.10
Barium (TCLP)	6010(1)	mg/l	<10	<10
Cadmium (TCLP)	6010(1)	mg/l	<0.10	<0.10
Chromium (TCLP)	6010(1)	mg/l	<0.10	<0.10
Mercury (TCLP)	7470(1)	mg/l	<0.010	<0.010
Lead (TCLP)	6010(1)	mg/l	<0.10	<0.10
Selenium (TCLP)	7740(1)	mg/l	<0.10	<0.10
TCLP Extraction Fluid Data:				
Extraction Fluid	1311(1)	-	No.1	NO.1
pH with Deionized Water		pH units	7.80	NAP(3)
pH After Addition of 1 Normal HCL		pH units	2.00	NAP
pH of TCLP Extract		pH units	5.15	4.92
Amount of Sample Extracted		g	100	NAP

(1)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(2)TCLP = Toxicity Characteristic Leaching Procedure.
(3)NAP = Not applicable.

Table 2
TCLP[1] Organic Analyses
Westinghouse Electric
Antech Ltd. Project No. 95-4579
Sludge Characterization
Blairsville D&D Project

Parameter	CAS[2] Number	Units	Sample Identification: 9510-1292 CP-1 (10/10/95)	Sample Identification: 9510-1294 Method Blank (10/10/95)
TCLP Volatile Organic Analyses:(8260)[3]				
Benzene	71-43-2	µg/l	<50	<50
2-Butanone	78-93-3	µg/l	<5000	<5000
Carbon tetrachloride	56-23-5	µg/l	<50	<50
Chlorobenzene	108-90-7	µg/l	<1000	<1000
Chloroform	67-66-3	µg/l	<500	<500
1,2-Dichloroethane	107-06-2	µg/l	<50	<50
1,1-Dichloroethene	75-35-4	µg/l	<50	<50
Tetrachloroethene	127-18-4	µg/l	<50	<50
Trichloroethene	79-01-6	µg/l	<50	<50
Vinyl chloride	75-01-4	µg/l	<50	<50
TCLP Base/Neutral Extractables:(8270)[3]				
1,4-Dichlorobenzene	106-46-7	µg/l	<500	<500
2,4-Dinitrotoluene	121-14-2	µg/l	<50	<50
Hexachlorobutadiene	87-68-3	µg/l	<50	<50
Hexachlorobenzene	118-74-1	µg/l	<100	<100
Hexachloroethane	67-72-1	µg/l	<500	<500
Nitrobenzene	98-95-3	µg/l	<100	<100
Pyridine	110-86-1	µg/l	<500	<500
TCLP Acid Extractables:(8270)[3]				
Total Cresol (TCLP)	(4)	µg/l	<5000	<5000
Pentachlorophenol	87-86-5	µg/l	<5000	<5000
2,4,5-Trichlorophenol	95-95-4	µg/l	<5000	<5000
2,4,6-Trichlorophenol	88-06-2	µg/l	<100	<100

(1)TCLP = Toxicity Characteristic Leaching Procedure.
(2)CAS = Chemical Abstracts Services.
(3)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(4)m-Cresol 108-39-4, o-Cresol 95-48-7, and p-Cresol 106-44-5.

Table 3
General Data Table
Westinghouse Electric
Antech Ltd. Project No. 95-4579
Soil Characterization
Blairsville D&D Project

Parameter	Analytical Method	Units	Sample Identification: 9510-1293 CP-2 (10/10/95)	Sample Identification: 9510-1295 Method Blank (10/10/95)
TCLP[1] Metals:				
Silver (TCLP)	6010[2]	mg/l	<0.10	<0.10
Arsenic (TCLP)	6010[2]	mg/l	<0.10	<0.10
Barium (TCLP)	6010[2]	mg/l	<10	<10
Cadmium (TCLP)	6010[2]	mg/l	<0.10	<0.10
Chromium (TCLP)	6010[2]	mg/l	<0.10	<0.10
Mercury (TCLP)	7470[2]	mg/l	<0.010	<0.010
Lead (TCLP)	6010[2]	mg/l	<0.10	<0.10
Selenium (TCLP)	7740[2]	mg/l	<0.10	<0.10
TCLP Extraction Fluid Data:				
Extraction Fluid	1311[2]	-	No.1	No.1
pH with Deionized Water		pH units	7.73	NAP[3]
pH After Addition of 1 Normal HCL		pH units	2.06	NAP
pH of TCLP Extract		pH units	4.95	4.92
Amount of Sample Extracted		g	100	NAP

(1)TCLP - Toxicity Characteristic Leaching Procedure.
(2)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(3)NAP - Not applicable.

Table 4
TCLP[1] Organic Analyses
Westinghouse Electric
Antech Ltd. Project No. 95-4579
Soil Characterization
Blairsville D&D Project

Parameter	CAS[2] Number	Units	Sample Identification 9510-1293 CP-2 (10/10/95)	9510-1295 Method Blank (10/10/95)
TCLP Volatile Organic Analyses:(8260)[3]				
Benzene	71-43-2	µg/l	<50	<50
2-Butanone	78-93-3	µg/l	<5000	<5000
Carbon tetrachloride	56-23-5	µg/l	<50	<50
Chlorobenzene	108-90-7	µg/l	<1000	<1000
Chloroform	67-66-3	µg/l	<500	<500
1,2-Dichloroethane	107-06-2	µg/l	<50	<50
1,1-Dichloroethene	75-35-4	µg/l	<50	<50
Tetrachloroethene	127-18-4	µg/l	<50	<50
Trichloroethene	79-01-6	µg/l	<50	<50
Vinyl chloride	75-01-4	µg/l	<50	<50
TCLP Base/Neutral Extractables:(8270)[3]				
1,4-Dichlorobenzene	106-46-7	µg/l	<500	<500
2,4-Dinitrotoluene	121-14-2	µg/l	<50	<50
Hexachlorobutadiene	87-68-3	µg/l	<50	<50
Hexachlorobenzene	118-74-1	µg/l	<100	<100
Hexachloroethane	67-72-1	µg/l	<500	<500
Nitrobenzene	98-95-3	µg/l	<100	<100
Pyridine	110-86-1	µg/l	<500	<500
TCLP Acid Extractables:(8270)[3]				
Total Cresol (TCLP)	(4)	µg/l	<5000	<5000
Pentachlorophenol	87-86-5	µg/l	<5000	<5000
2,4,5-Trichlorophenol	95-95-4	µg/l	<5000	<5000
2,4,6-Trichlorophenol	88-06-2	µg/l	<100	<100

(1)TCLP = Toxicity Characteristic Leaching Procedure.
(2)CAS = Chemical Abstracts Services.
(3)U.S. Environmental Protection Agency, 1987, Test Methods for Evaluating Solid Waste, SW-846, 3rd ed., Office of Solid Waste and Emergency Response, Washington, DC.
(4)m-Cresol 108-39-4, o-Cresol 95-48-7, and p-Cresol 106-44-5.

Toxicity Characteristic Leaching Procedure (TCLP)
Regulatory Levels

Contaminant	Regulatory Level (mg/l)	USEPA Hazardous Waste Number
Arsenic	5.0	D004
Barium	100.0	D005
Cadmium	1.0	D006
Chromium	5.0	D007
Lead	5.0	D008
Mercury	0.2	D009
Selenium	1.0	D010
Silver	5.0	D011
Benzene	0.5	D018
Carbon Tetrachloride	0.5	D019
Chlorobenzene	100.0	D021
Chloroform	6.0	D022
Cresol	200.0	D026
1,4-Dichlorobenzene	7.5	D027
1,2-Dichloroethane	0.5	D028
1,1-Dichloroethene	0.7	D029
2,4-Dinitrotoluene	0.13	D030
Hexachlorobenzene	0.13	D032
Hexachlorobutadiene	0.5	D033
Hexachloroethane	3.0	D034
2-Butanone	200.0	D035
Nitrobenzene	2.0	D036
Pentachlorophenol	100.0	D037
Pyridine	5.0	D038
Tetrachloroethene	0.7	D039
Trichloroethene	0.5	D040
2,4,5-Trichlorophenol	400.0	D041
2,4,6-Trichlorophenol	2.0	D042
Vinyl chloride	0.2	D043

Antech Ltd.
Chain of Custody Record

For Laboratory Use Only

Laboratory Project No.: _____

Project Name: _____ Project No.: _____ Sampler: _____ (Printed Name) _____ (Signature)

Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:
Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:
	[illegible] /AI Nat [illegible]	10-16-95	1:20
Relinquished By: (Signature and Printed Name)	Received By: (Signature and Printed Name)	Date:	Time:

Antech Proposal No.: _____

Ship To:
Antech Ltd.
One Triangle Drive
Export, PA 15632
(412) 733-1161
FAX (412) 327-7793

Method of Shipment: _____

Shipment ID: _____

Circle Bottle Size

Sample ID Number	Sample Description: Date	Time	Description	Grab	Composite	Chemistry (500 ml, 1000 ml)	Nutrient (250 ml, 500 ml)	Total Metals (250 ml, 500 ml)	Dissolved Metals (250 ml, 500 ml)	Cyanide (1000 ml)	Phenolics (1000 ml)	TOC (125 ml)	TOX (250 ml)	Sulfide (500 ml)	Radiological (1000 ml)	Oil & Grease (1000 ml)	TPHC (1000 ml)	VOA (40 ml)	Organics (1000 ml, 2.5 liter)	Bacteriological (125 ml)	Widemouth Jar, Soil (250 ml, 500 ml, 1000 ml)	VOA Septa Jar, Soil (125 ml)	Other (Please Specify): [illegible]	[illegible]	[illegible]	[illegible]	No. of Containers	For Laboratory Use Only: Laboratory ID
CP-1	10/16/95	[illegible]	[illegible]	X																			X	X	X	X	1	10-1993
[illegible]-2				X																			X	X		X	1	↓ 1993

Please Check when VOA Vials are Collected:

- ☐ Free of Bubbles
- ☐ Bubbles Present

(Specify in Special Instructions/Comments)

Special Instructions/Comments: [illegible] 2761-8357

Sample Return/Disposal:

- ☐ Return to Client
- ☐ Disposal by Antech

Results To:

- ☑ Client Name: [illegible]
- Company: _____
- Address: _____

Invoice To:

- ☑ Client Name: _____
- Company: _____
- Address: _____

For Laboratory Use Only

Sample Condition Upon Receipt _____

Rev.: 7/20/94

APPENDIX H

MAGNETIC SURVEY FIELD DATA

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

Zircon Burn Area (ZBA)

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 1 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT G-856 Memory-MAG Proton Precession Magnetometer INSTRUMENT S/N 50531

BASE STATION LOCATION Tuned Magnetometer to 55,000 gammas / 54913 (10:46)

PROFILE NUMBER

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) M	E. COORD. (~~FT.~~) M	DRIFT CORR.	
1	54658		10:51	0	0		Gravel road
2	54815			5	0		
3	54927			10	0		
4	54899			15	0		
5	55413			20	0		Gas Line
6	54442			25	0		
7	54801			30	0		
8	55116			35	0		
9	54829			40	0		
10	55016			45	0		
11	54392			50	0		
12	55229			55	0		
13	55482			60	0		
14	55003			65	0		
15	54891			70	0		
16	54610			75	0		
17	55324			80	0		Metal at Surface
18	55014			85	0		
19	54687			90	0		
20	54840			95	0		
21	54772			100	0		Power Line
22	54796			100	5		
23	54853			95	5		
24	54862			90	5		

COMMENTS:

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blossville PROJECT NO. 93-132 PAGE 2 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION

INSTRUMENT INSTRUMENT S/N

BASE STATION LOCATION

PROFILE NUMBER

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) M	E. COORD. (~~FT.~~) M	DRIFT CORR.
25	54883		11:00	85	5	
26	54828			80	5	
27	54833			75	5	
28	54864			70	5	
29	54902			65	5	
30	54965			60	5	
31	54948			55	5	
32	54830			50	5	
33	54854			45	5	
34	54860			40	5	
35	54892			35	5	
36	54743			30	5	Pipe Line
37	55068			25	5	
38	55855			20	5	
39	55103			15	5	
40	54978			10	5	
41	54819			5	5	gravel road
42	54692			0	5	
43	55339			0	10	
44	55534			5	10	gravel road
45	55047			10	10	
46	54842			15	10	
47	55058			20	10	
48	54444			25	10	gas line

COMMENTS:

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

28A

PROJECT NAME Blanchard Hill PROJECT NO. 93-132 PAGE 3 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION

INSTRUMENT INSTRUMENT S/N

BASE STATION LOCATION

PROFILE NUMBER

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.) M	E. COORD. (FT.) M	DRIFT CORR.
49	54732		11:05	30	10	
50	54833			35	10	
51	54844			40	10	
52	54861			45	10	
53	54917			50	10	
54	54893			55	10	
55	54856			60	10	
56	54877			65	10	
57	54911			70	10	
58	54874			75	10	
59	54886			80	10	
60	54866			85	10	
61	54855			90	10	
62	54836			95	10	
63	54746			100	10	Power line
64	54822			100	15	
65	54858			95	15	
66	54879			90	15	
67	54890			85	15	
68	54899			80	15	
69	54936			75	15	
70	54884			70	15	
71	54897			65	15	
72	54903			60	15	

COMMENTS:

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blawnwille PROJECT NO. 93-132 PAGE 4 OF 27

BY DPC/WAB DATE 10-13-95 LOCATION Blawnwille PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) m	E. COORD. (~~FT.~~) m	DRIFT CORR.
73	54892		11:12	55	15	
74	54893			50	15	
75	54891			45	15	
76	54878			40	15	
77	54835			35	15	
78	54387			30	15	
79	53609			25	15	gas line
80	54184			20	15	
81	54341			15	15	
82	55028			10	15	gravel road
83	55260			5	15	
84	55134			0	15	
85	54981			0	20	
86	54999			5	20	edge gravel road
87	54940			10	20	
88	54927			15	20	
89	55199			20	20	gas line DW-5 loca
90	54358			25	20	
91	54470			30	20	
92	54834			35	20	
93	54892			40	20	
94	54876			45	20	
95	54902			50	20	
96	54880			55	20	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blanchville PROJECT NO. 93-122 PAGE 5 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION

INSTRUMENT INSTRUMENT S/N

BASE STATION LOCATION

PROFILE NUMBER

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) m	E. COORD. (~~FT.~~) m	DRIFT CORR.
97	54917		11:18	60	20	
98	54873			65	20	
99	54866			70	20	
100	54855			75	20	
101	54829			80	20	
102	54871			85	20	
103	54895			90	20	
104	54825			95	20	Power line
105	54816			100	20	
106	54784			100	25	Power line
107	54845			95	25	
108	54873			90	25	
109	54875			85	25	
110	54876			80	25	
111	54860			75	25	
112	54895			70	25	
113	54892			65	25	
114	54889			60	25	
115	54879			55	25	
116	54881			50	25	
117	54905			45	25	
118	54888			40	25	
119	54855			35	25	
120	54796			30	25	

COMMENTS:

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 6 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.) M	E. COORD. (FT.) M	DRIFT CORR.	
121	54620		11:24	25	25		gravel road
122	55049			20	25		
123	55029			15	25		
124	55017			10	25		
125	55013			5	25		
126	55000			0	25		
127	54947			0	30		
128	54993			5	30		
129	55049			10	30		gravel road
130	54999			15	30		
131	54971			20	30		
132	54597			25	30		
133	54853			30	30		shallow excavation
134	54817			35	30		
135	54873			40	30		
136	55034			45	30		
137	54898			50	30		
138	54887			55	30		
139	54966			60	30		
140	54901			65	30		
141	54918			70	30		
142	54866			75	30		
143	54915			80	30		
144	54872			85	30		exposed electric cable

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 7 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) M	E. COORD. (~~FT.~~) M	DRIFT CORR.	
145	54829		11:30	90	30		
146	54847			95	30		Power Line
147	54770			100	30		
148	55154			100	35		4x4' Metal co
149	54957			95	35		Power L
150	54856			90	35		
151	54897			85	35		
152	54882			80	35		
153	54940			75	35		
154	55193			70	35		
155	54958			65	35		
156	54907			60	35		Dirt Pile
157	54818			55	35		Metal stake
158	54827			50	35		
159	55087			45	35		
160	54923			40	35		
161	54855			35	35		
162	54965			30	35		
163	54629			25	35		gas line
164	54457			20	35		gravel road
165	54925			15	35		
166	55007			10	35		
167	55006			5	35		
168	54996			0	35		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 8 OF 27

BY DDC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) m	E. COORD. (~~FT.~~) m	DRIFT CORR.
169	55014		11:36	0	40	
170	54999			5	40	
171	55072			10	40	
172	54897			15	40	
173	53882			20	40	← grave road
174	54712			25	40	
175	54866			30	40	
176	54794			35	40	
177	55049			40	40	
178	55136			45	40	
179	55013			50	40	
180	54784			55	40	
181	54835			60	40	
182	54956			65	40	
183	55152			70	40	
184	55052			75	40	
185	54792			80	40	
186	54866			85	40	
187	54858			90	40	Power line
188	54803			95	40	
189	54791			100	40	
190	54814			100	45	
191	54825			95	45	Power line
192	54874			90	45	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

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PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 9 OF 27

BY DPC/WAP DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) m	E. COORD. (~~FT.~~) m	DRIFT CORR.
193	54874		11:40	85	45	
194	54798			80	45	
195	54124			75	45	
196	54974			70	45	
197	54985			65	45	
198	54875			60	45	
199	54956			55	45	
200	54967			50	45	
201	55201			45	45	
202	54791			40	45	
203	55043			35	45	
204	54841			30	45	
205	54891			25	45	
206	54913			20	45	gravel road
207	55247			15	45	gas m
208	55075			10	45	
209	55027			5	45	
210	55009			0	45	
211	54954			-50	50	
212	54951			-45	50	
213	54914			-40	50	
214	54962			-35	50	
215	54952			-30	50	
216	54961			-25	50	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 10 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (~~FT.~~) M	E. COORD. (~~FT.~~) M	DRIFT CORR.
217	54929		11:50	-20	50	
218	54961			-15	50	
219	54964			-10	50	
220	54981			-5	50	
221	55020			0	50	
222	55023			5	50	
223	55145			10	50	
224	55558			15	50	
225	55403			20	50	gas line
226	54733			25	50	gravel road
227	54732			30	50	
228	54865			35	50	
229	54894			40	50	
230	54648			45	50	
231	54809			50	50	
232	54878			55	50	
233	54836			60	50	
234	54888			65	50	
235	54794			70	50	
236	55830			75	50	
237	54833			80	50	
238	54873			85	50	
239	54893			90	50	Power line
240	54822			95	50	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

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PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 11 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.) m	E. COORD. (FT.) m	DRIFT CORR.	
241	54821		11:59	100	50		
242	53420			100	55		Tra[illegible] / [illegible]
243	54847			95	55		
244	54854			90	55		
245	54860			85	55		
246	54881			80	55		
247	54528			75	55		
248	54820			70	55		
249	54891			65	55		
250	54891			60	55		
251	54901			55	55		
252	54866			50	55		
253	54841			45	55		
254	54853			40	55		
255	54865			35	55		
256	54848			30	55		gravel road
257	54794			25	55		
258	54855			20	55		995 line
259	55265			15	55		
260	55084			10	55		
261	55029			5	55		
262	55000			0	55		
263	54994			-5	55		
264	54989			-10	55		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 12 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville, PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
265	54974		12:05	-15	55	
266	54970			-20	55	
267	54985			-25	55	
268	54968			-30	55	
269	54949			-35	55	
270	54964			-40	55	
271	54958			-45	55	
272	54956			-50	55	
273	54921			-50	60	
274	54958			-45	60	
275	54976			-40	60	
276	54953			-35	60	
277	54986			-30	60	
278	54950			-25	60	
279	54922			-20	60	
280	54965			-15	60	
281	54963			-10	60	
282	54972			-5	60	
283	55013			0	60	
284	55001			5	60	
285	55007			10	60	
286	54781			15	60	
287	54225			20	60	gas line
288	54750			25	60	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 13 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION 54880 (12:20) / 54890 (13:00)

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.	
289	54779		12:13	30	60		
290	54864			35	60		gravel road
291	54891			40	60		
292	54868			45	60		
293	54907			50	60		edge gravel
294	54872			55	60		
295	54911			60	60		
296	54875			65	60		
297	54942			70	60		
298	54829			75	60		
299	54823			80	60		
300	54847		13:03	80	65		Base Reading 54880
301	54880			75	65		
302	54873			70	65		
303	54893			65	65		
304	54894			60	65		
305	54898			55	65		gravel road
306	54876			50	65		
307	54899			45	65		
308	54871			40	65		
309	54846			35	65		
310	54844			30	65		
311	54778			25	65		
312	54479			20	65		gas line

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 14 OF 27

BY NPC/WKB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
313	54969		1307	15	65	
314	55005			10	65	
315	55013			5	65	
316	55001			0	65	
317	54897			-5	65	
318	54990			-10	65	
319	54989			-15	65	
320	54989			-20	65	
321	54983			-25	65	
322	54976			-30	65	
323	54988			-35	65	
324	54974			-40	65	
325	54981			-45	65	
326	54977			-50	65	
327	54937			-50	70	
328	54966			-45	70	
328	54951			-40	70	
329	54958			-35	70	
330	54958			-30	70	
331	54962			-25		
332	54955			-20		
333	54972			-15		
334	54975			-10		
335	55004			-5		

902 line

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 15 OF 27

BY DPC/WAP DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
336	54989		13 12	0	70	
337	54988			5		
338	54987			10		
339	54700			15		gas line
340	54498			20		
341	54758			25		
342	54831			30		
343	54855			35		
344	54861			40		
345	54874			45		
346	54860			50		
347	54881			55		
348	54885			60		
349	54884			65		
350	54877			70		
351	54870			75		
352	54860			80		Park road
353	54853			80	75	
354	54872			75		
355	54893			70		
356	54881			65		
357	54861			60		
358	54886			55		
359	54844			50		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

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PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 16 OF 27

BY DPC / WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
360	54904		13:18	45	75	
361	54910			40	75	
362	54889			35	75	
363	54875			30		
364	54814			25		
365	54554			20		
366	54807			15		
367	54982			10		
368	55040			5		
369	54965			0		
370	54966			-5		
371	54965			-10		
372	55001			-15		
373	54961			-20		
374	54983			-25		
375	54997			-30		
376	54993			-35		
377	54952			-40		
378	54957			-45		
379	54979			-50		
380	54936			-50	80	
381	54960			-45		
382	54982			-40		
383	54966			-35		

90e line

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 17 OF 27

BY DRC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
384	54989		13:23	-30	80	
385	54972			-25	80	
386	54999			-20	80	
387	54966			-15		
388	55004			-10		
389	55022			-5		
390	55008			0		
391	55002			5		
392	55045			10		
393	55061			15		gas line
394	54622			20		
395	54800			25		
396	54818			30		
397	54890			35		
398	54930			40		
399	54881			45		
400	54909			50		
401	54891			55		
402	54890			60		
403	54884			65		
404	54882			70		
405	54882			75		
406	54879			60	85	
407	54893			55	85	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 18 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville, PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
408	54917		13.30	50	85	
409	54902			45		
410	54887			40		
411	54896			35		
412	54893			30		
413	54832			25		
414	54860			20		
415	54665			15		gas line
416	55024			10		gas line
417	55013			5		
418	55010			0		
419	55021			-5		
420	54996			-10		
421	55002			-15		
422	54988			-20		
423	54983			-25		
424	54986			-30		
425	54976			-35		
426	54977			-40		
427	54983			-45		
428	54977			-50		
429	54986			-50	90	
430	54955			-45	90	
431	54936			-40	90	

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 19 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
432	54966		13:37	-35	90	
433	54989			-30		
434	54966			-25		
435	55002			-20		
436	54976			-15		
437	54952			-10		
438	54981			-5		
439	55030			0		
440	55018			5		
441	55007			10		
442	54488			15		
443	54684			20		
444	54848			25		
445	54848			30		
446	54882			35		
447	54846			40		
448	54800			45		
449	54979			50		
450	54914			55		
451	54862			60		
452	54887 54996			60 55	95 95	
453	55266			50		
454	55003			45		
455	54904			40		

gas line

X Anomaly?

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 20 OF 27

BY DPC / WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
456	54866		13:50	35	95	
457	54841			30		
458	54781			25		
459	54725			20		
460	54962			15		
461	55194			10		gae line
462	55050			5		
463	55002			0		
464	54997			-5		
465	54990			-10		
466	54979			-15		
467	54971			-20		
468	54970			-25		
469	54967			-30		
470	54965			-35		
471	54967			-40		
472	54959			-45		
473	54961			-50		
474	54891			60	100	
475	54673			55		
476	54671			50		
477	55142			45		
478	54907			40		
479	54888			35		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 21 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
480	54911		1400	30	100	
481	54825			25		
482	54763			20		
483	54407			15		
484	55048			10		
485	55054			5		
486	54997			0		
487	54973			-5		
488	54999			-10		
489	54954			-15		
490	54986			-20		
491	54940			-25		
492	54986			-30		
493	54951			-35		
494	54979			-40		
495	55023			-45		
496	54991			-50		
497	54997			-50	105	
498	54959			-45		
499	54958			-40		
500	54986			-35		
501	54971			-30		
502	54974			-25		
503	54976			-20		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 22 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.	
504	54988		14:09	-15	105		
505	54999			-10			
506	55015			-5			
507	55073			0			
508	54975			5			
509	55328			10			gas line
510	54783			15			
511	54757			20			
512	54828			25			
513	54855			30			
514	54885			35			
515	54900			40			
516	54886			45			
517	54866			50			
518	54871			50	110		
519	54900			45			
520	54869			40			
521	54891			35			
522	54852			30			
523	54843			25			
524	54756			20			
525	55000			15			gas line
526	55441			10			
527	55091			5			

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 23 OF ___

BY DPC/WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT ___ INSTRUMENT S/N ___

BASE STATION LOCATION ___

PROFILE NUMBER ___

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
528	55195		14:14	0	116	
529	55026			-5		
530	55042			-10		
531	55009			-15		
532	55055			-20		
533	54995			-25		
534	55021			-30		
535	54981			-35		
536	54975			-40		
537	54790			-45		
538	55653			-50		Metal CMP
539	55007			-55		
540	54979			-60		
541	54968			-60	115	
542	54966			-55	115	
543	54904			-50		
544	54906			-45		
545	54968			-40		
546	54974			-35		
547	54984			-30		
548	54989			-25		
549	54996			-20		
550	55000			-15		
551	55011			-10		

COMMENTS: ___

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blairsville PROJECT NO. 93-132 PAGE 24 OF 27

BY DPC / WAB DATE 10-18-95 LOCATION Blairsville PA

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.	
552	55028		1417	-5	115		
553	55039			0			
554	55035			5			
555	54920			10			
556	54530			15			gas line
557	54771			20			
558	54844			25			
559	54863			30			
560	54892			35			
561	54895			40			
562	54901			45			
563	54913			50			
564	54947			50	120		
565	54917			45			
566	54913			40			
567	54886			35			
568	54934			30			
569	54862			25			
570	54756			20			
571	54424			15			
572	54763			10			
573	55027			5			gas line
574	55023			0			
575	55034			-5			

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blainsville PROJECT NO. 93-132 PAGE 25 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blainsville

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
576	55020			-10	120	
577	55017			-15		
578	55003			-20		
579	54993			-25		
580	54981			-30		
581	54981			-35		
582	54965			-40		
583	54972			-45		
584	54989			-50		
585	54976			-25	125	
586	54996			-20		
587	55007			-15		
588	55020			-10		
589	55034			-5		
590	55050			0		
591	55002			5		
592	54330			10		gas line
593	54535			15		
594	54791			20		
595	54853			25		
596	54893			30		
597	54873			35		
598	54889			40		
599	54891			45		

COMMENTS: 54900

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blainville PROJECT NO. 93-132 PAGE 26 OF 27

BY DPC/WAB DATE 10-18-95 LOCATION Blainville

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION _____

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
600	54899		14:23	50	125	
601	54922			50	130	
602	54828			45	130	
603	54960			40		
604	54893			35		
605	54899			30		
606	54845			25		
607	54808			20		
608	54629			15		
609	54633			10		gas line
610	54147			5		
611	55143			0		
612	55072			-5		
613	55070			-10		
614	55025			-15		
615	54986			-20		
616	55059			-10	135	
617	55122			-5		
618	55261			0		
619	55604			5		
620	55978			10		gas line
621	54870			15		
622	54800			20		
623	54830			25		

COMMENTS: _____

f42/corp

CUMMINGS RITER CONSULTANTS, INC.

MAGNETIC SURVEY FIELD DATA SHEET

ZBA

PROJECT NAME Blanchard U. PROJECT NO. 93-132 PAGE 27 OF 27

BY DPC/WMB DATE 10-18-95 LOCATION Blanchard

INSTRUMENT _____ INSTRUMENT S/N _____

BASE STATION LOCATION 54906 (14:46)

PROFILE NUMBER _____

STATION NO.	READING (GAMMAS)	SCALE (GAMMAS)	TIME	N. COORD. (FT.)	E. COORD. (FT.)	DRIFT CORR.
624	54864		14:40	30	135	
625	54876			35		
626	54884			40		
627	54897			45		
628	54890			50		
629	54965			50	140	
630	54903			45		
631	54858			40		
632	54885			35		
633	54856			30		
634	54840			25		
635	54782			20		
636	55109			15		
637	57165			10		gas line
638	56171			5		
639	55394			0	140	
						gas line

COMMENTS: _____

f42/corp

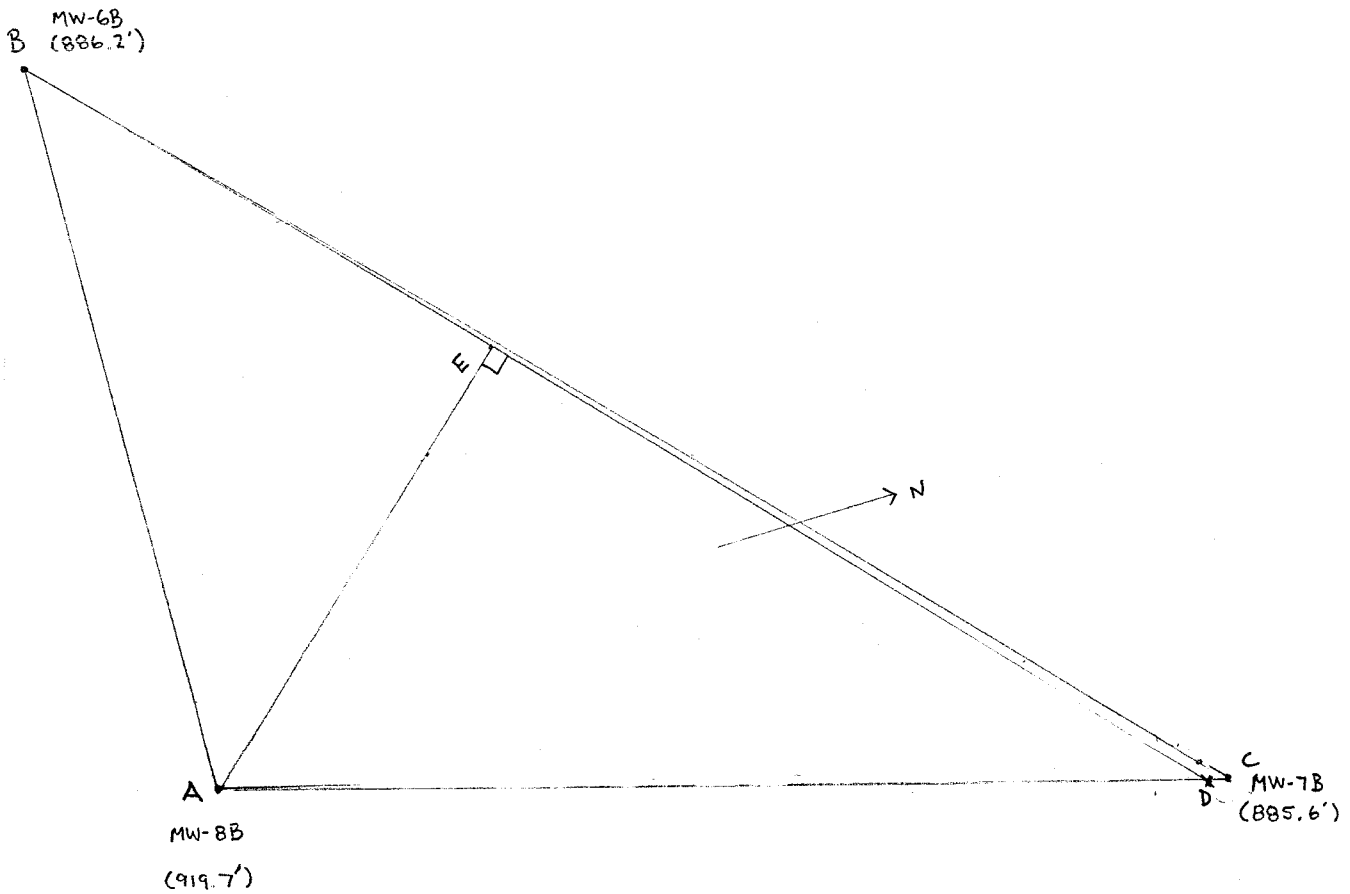
APPENDIX I

THREE POINT PROBLEM CALCULATION

CUMMINGS RITER CONSULTANTS, INC.

By DPC Date 10-20-95 Subject Specialty Metals Plant, Blairsville Sheet No. 1 of 2

Chkd. By WAR Date 10-24-95 Three point problem Proj. No. 93-132



Scale: 1" = 250'

Strike:

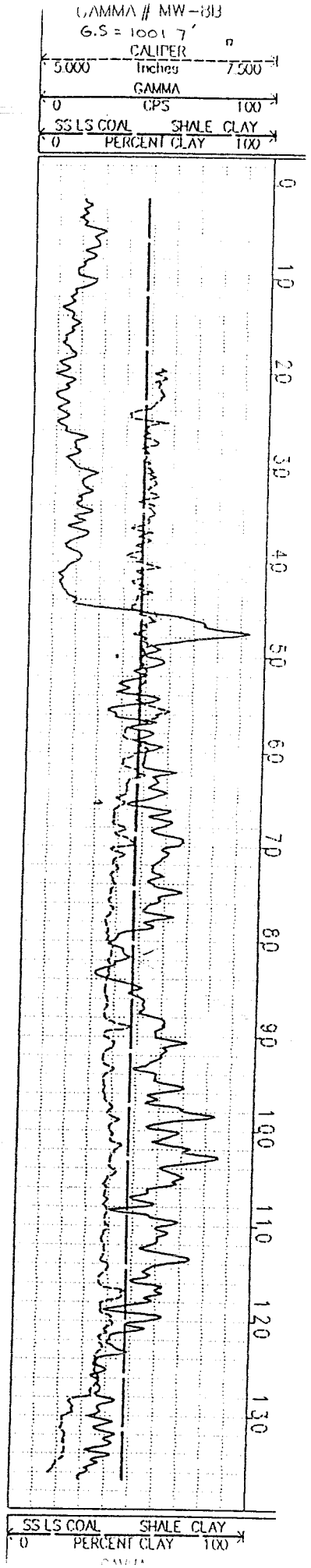
$$AD = AC \frac{\text{difference in elevation between A and B}}{\text{difference in elevation between A and C}} = (1330') \frac{(919.7' - 886.2')}{(919.7' - 885.6')} = 1306.6'$$

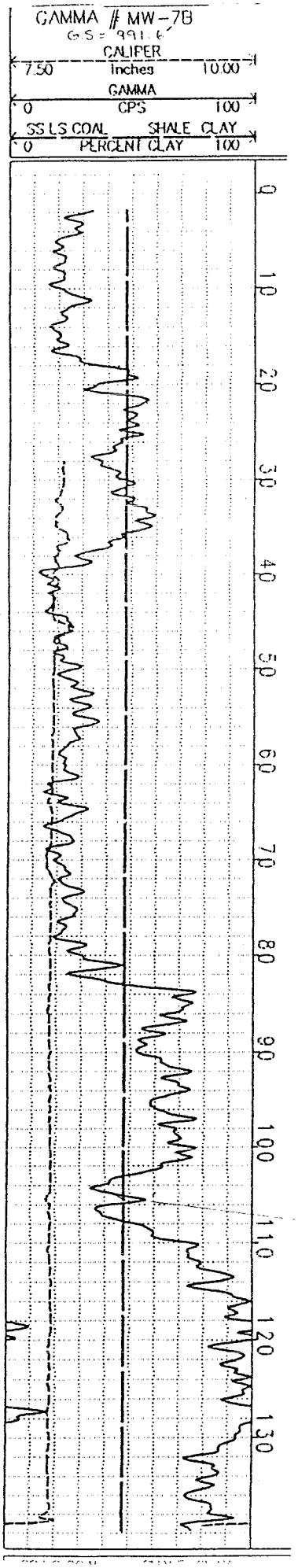
$\boxed{\text{strike} = N45^\circ E}$

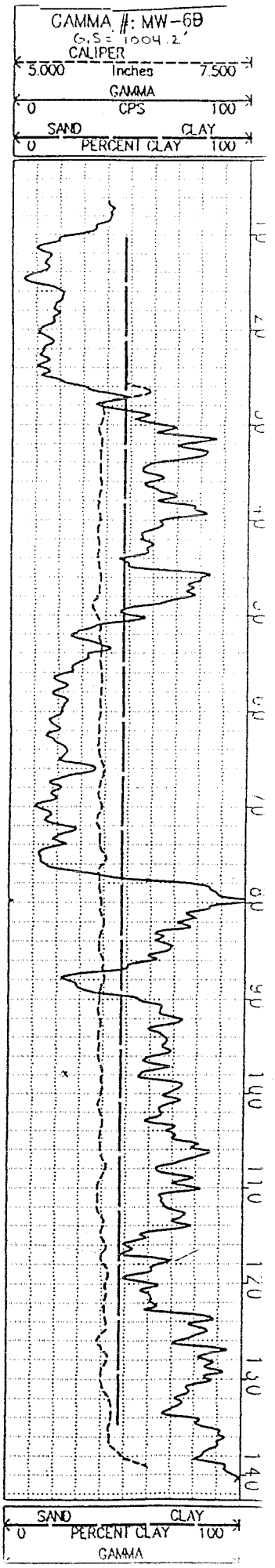
Dip:

$$\text{tangent of the angle of dip} = \frac{\text{difference in elevation between A and B}}{AE} = \frac{(919.7' - 886.2')}{(680')} = 0.049$$

$\tan \alpha = 0.049 \Rightarrow \boxed{\alpha = 2.8^\circ NW}$


GAMMA # MW-8B
G.S = 1001.7'
CALIPER
5.000 Inches 7.500
GAMMA
0 CPS 100
SS LS COAL SHALE CLAY
0 PERCENT CLAY 100
0 10 20 30 40 50 60 70 80 90 100 110 120 130
SS LS COAL SHALE CLAY
0 PERCENT CLAY 100


GAMMA # MW-7B
G.S = 991.6'
CALIPER
7.50 Inches 10.00
GAMMA
0 CPS 100
SS LS COAL SHALE CLAY
0 PERCENT CLAY 100
0 10 20 30 40 50 60 70 80 90 100 110 120 130

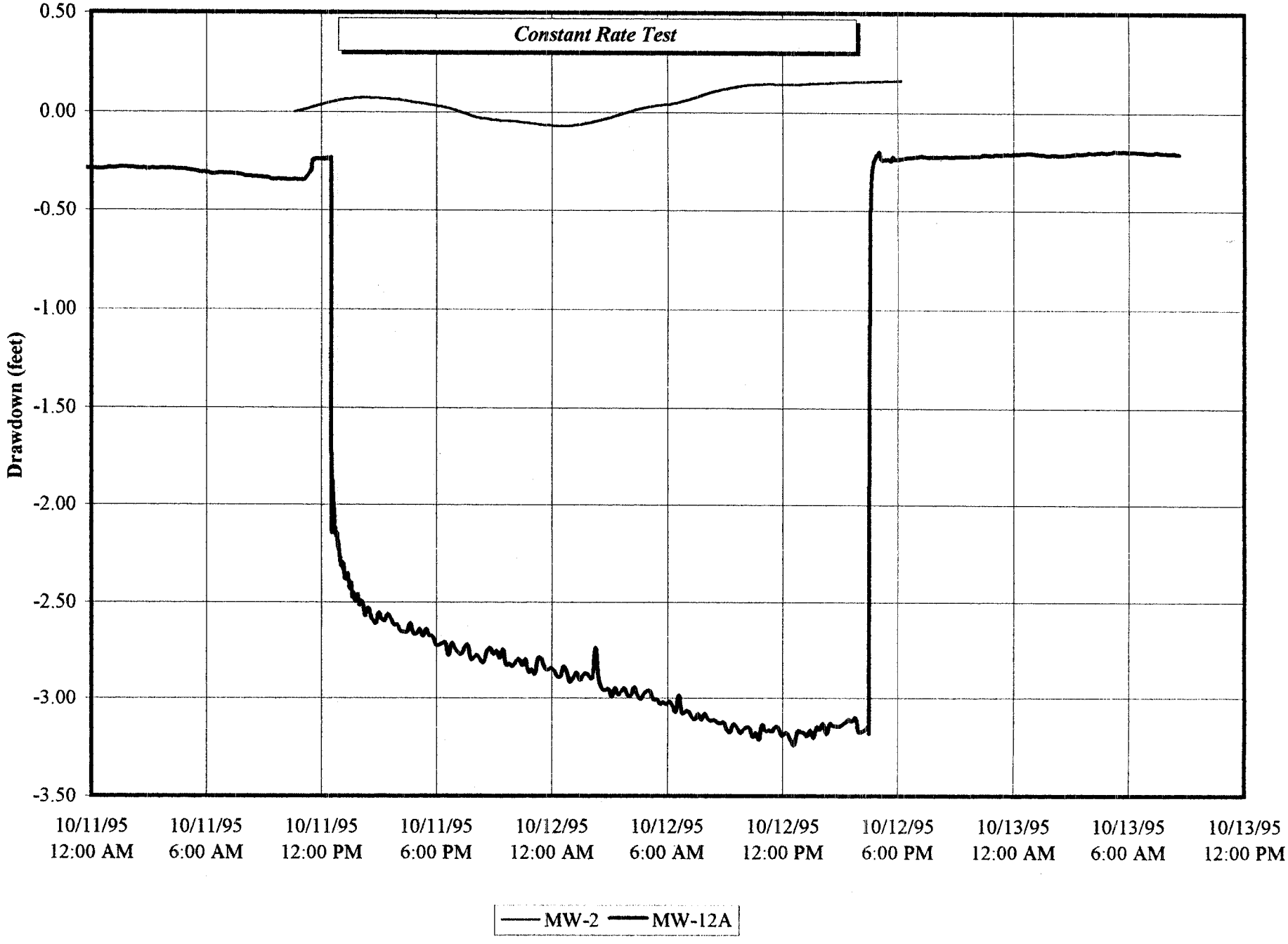

GAMMA #: MW-6B
G.S = 1004.2'
CALIPER
5.000 Inches 7.500
GAMMA
0 CPS 100
SAND CLAY
0 PERCENT CLAY 100
SAND CLAY
0 PERCENT CLAY 100
GAMMA

APPENDIX J

PUMP TEST RESULTS

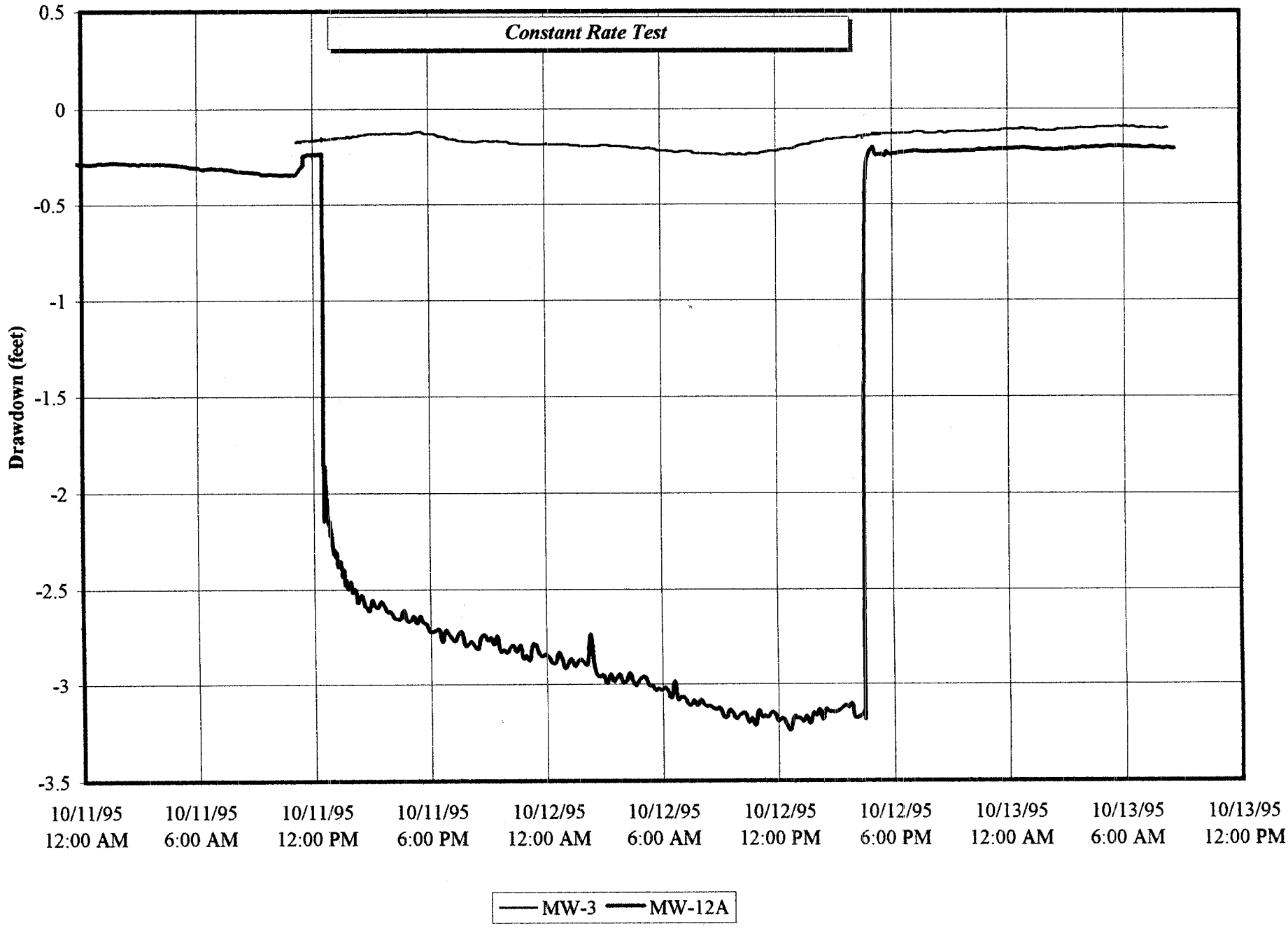
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-2



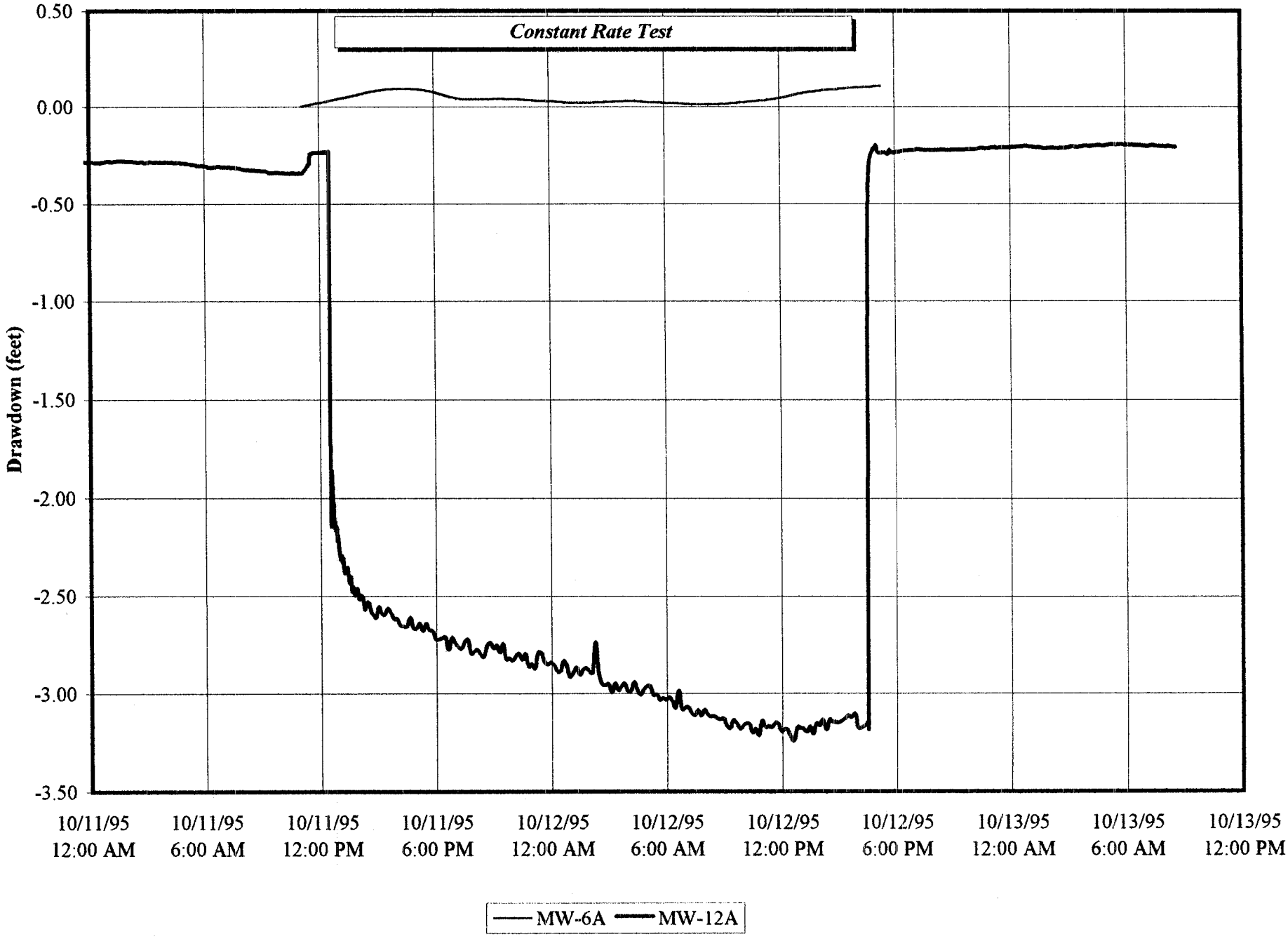
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-3



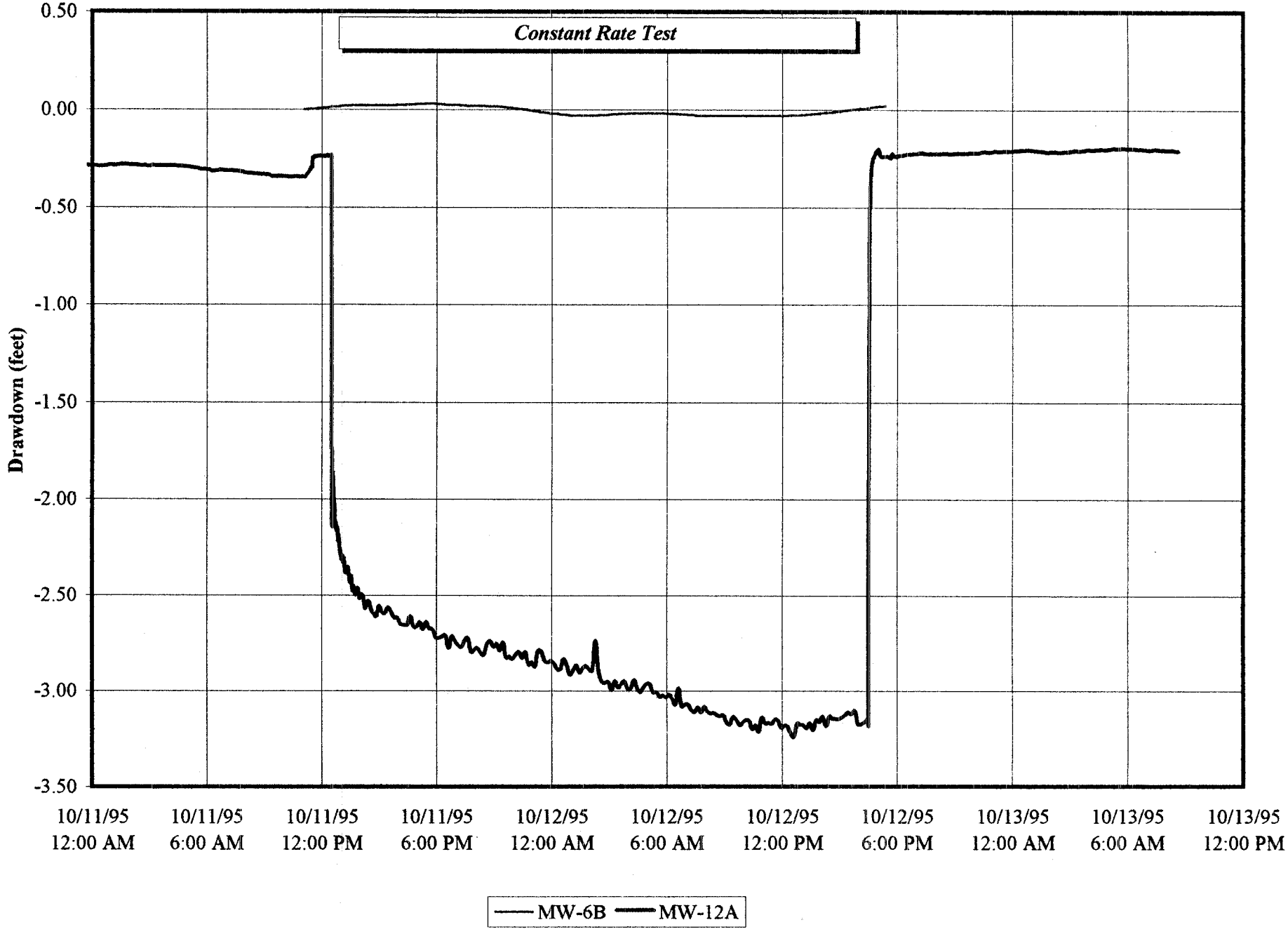
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-6A



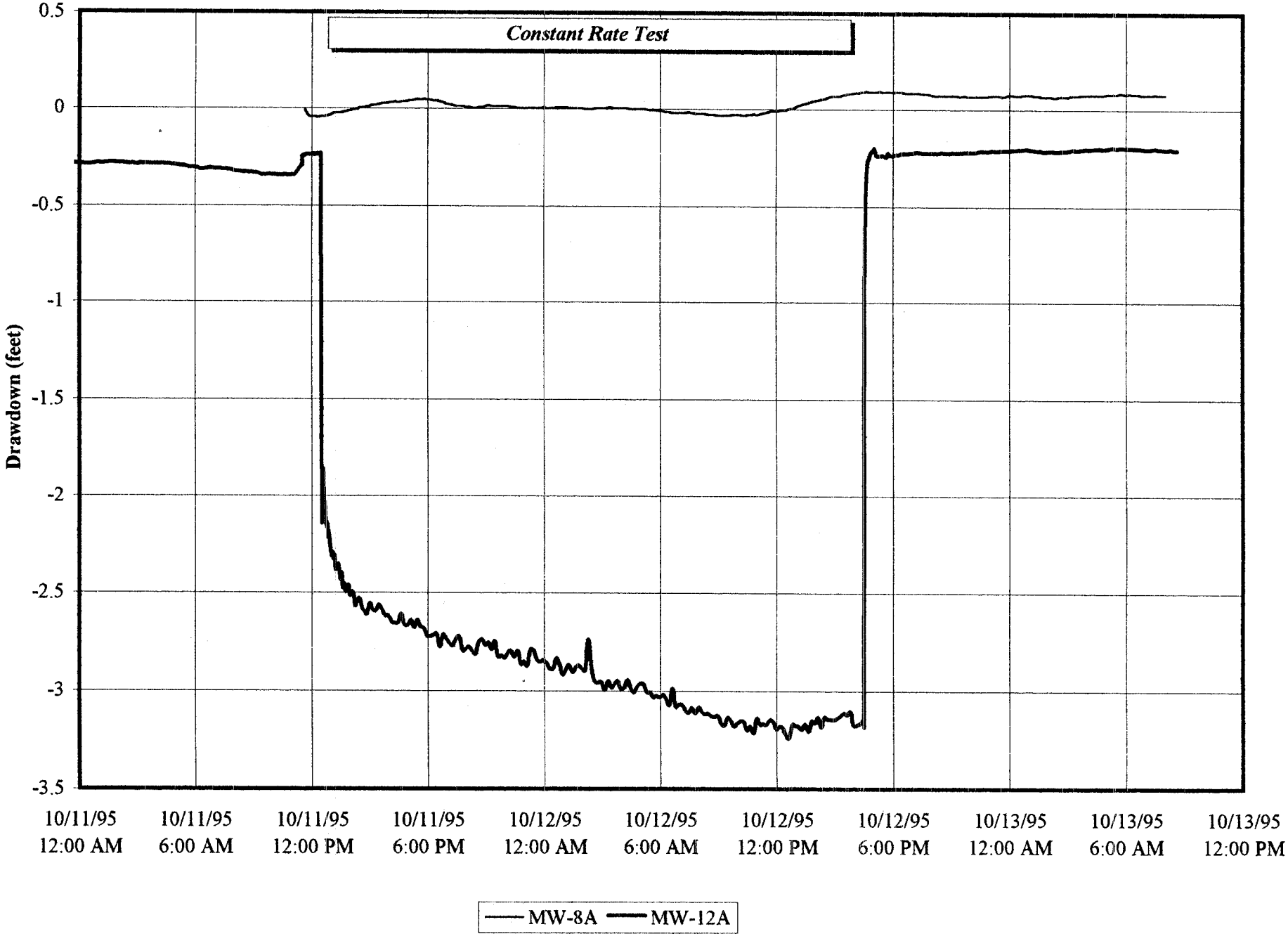
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-6B



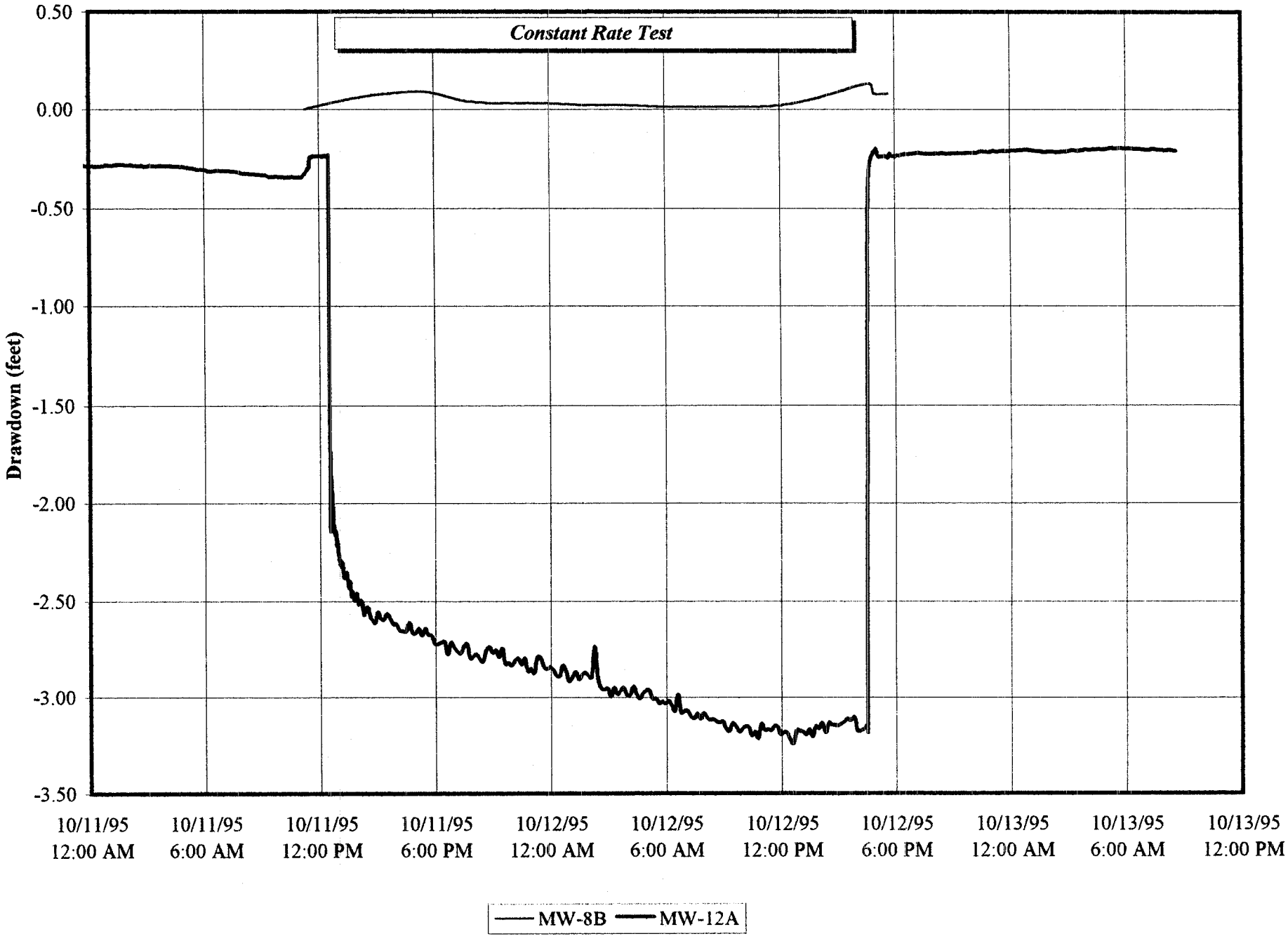
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-8A



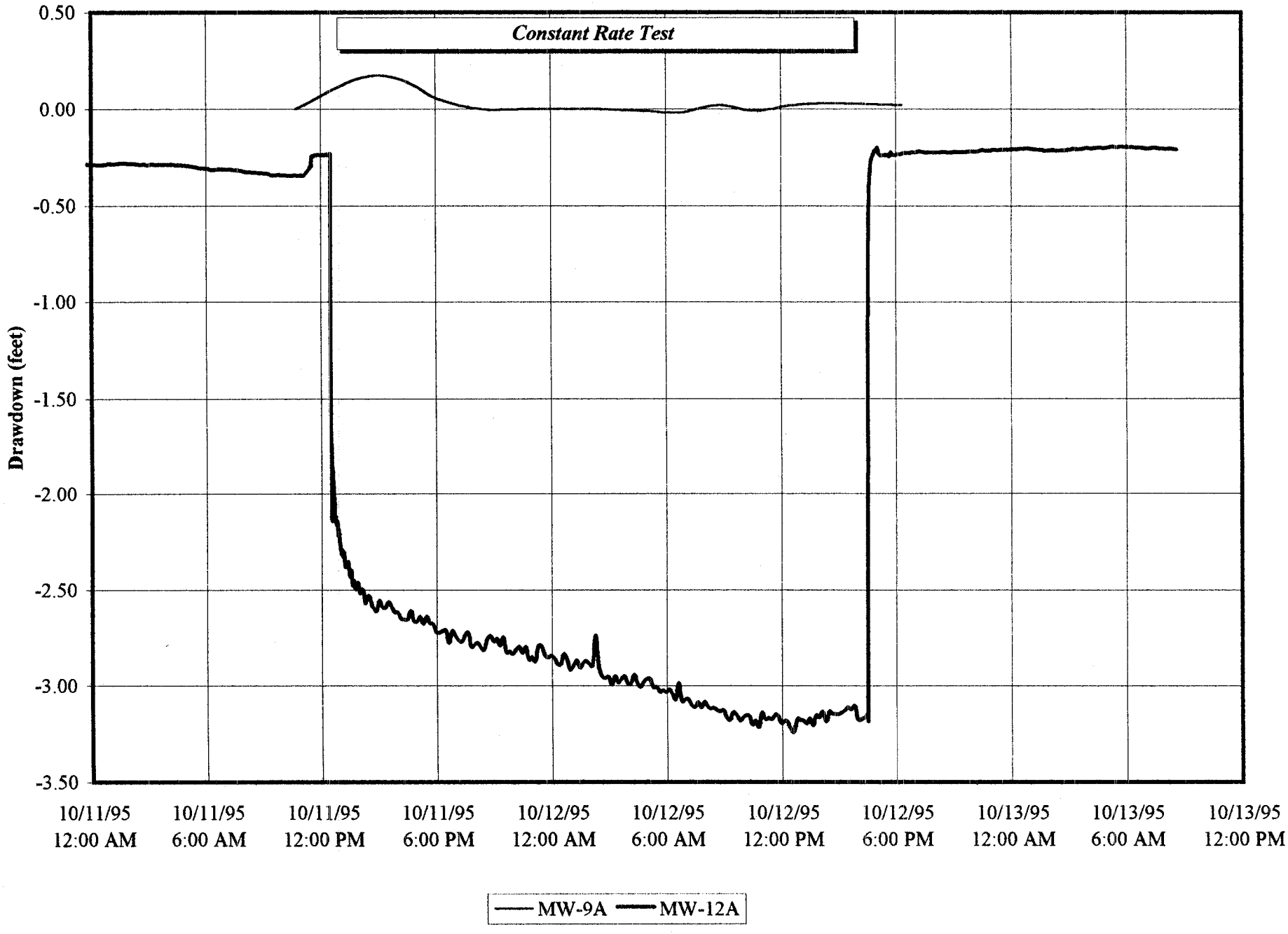
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-8B



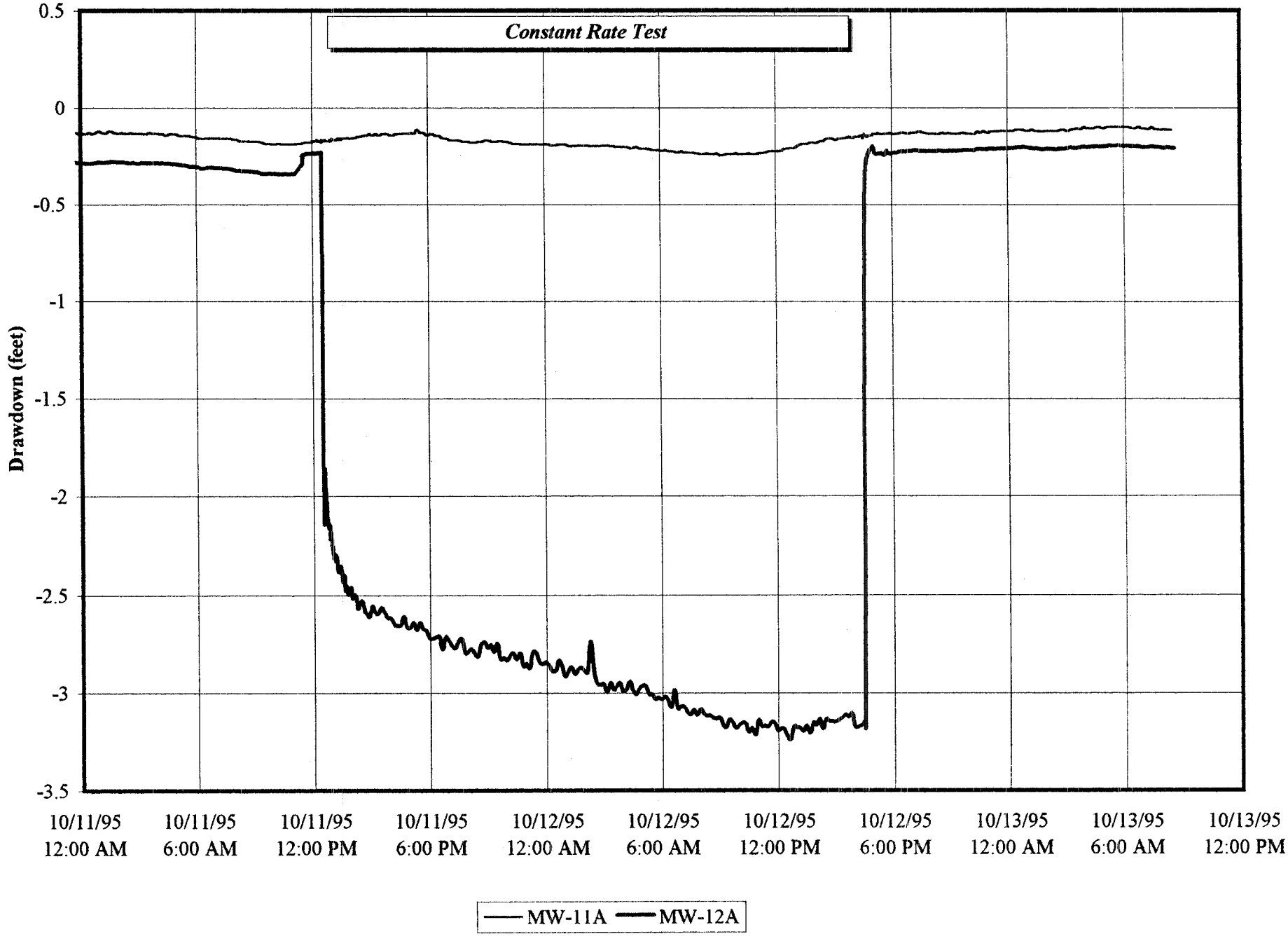
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-9A



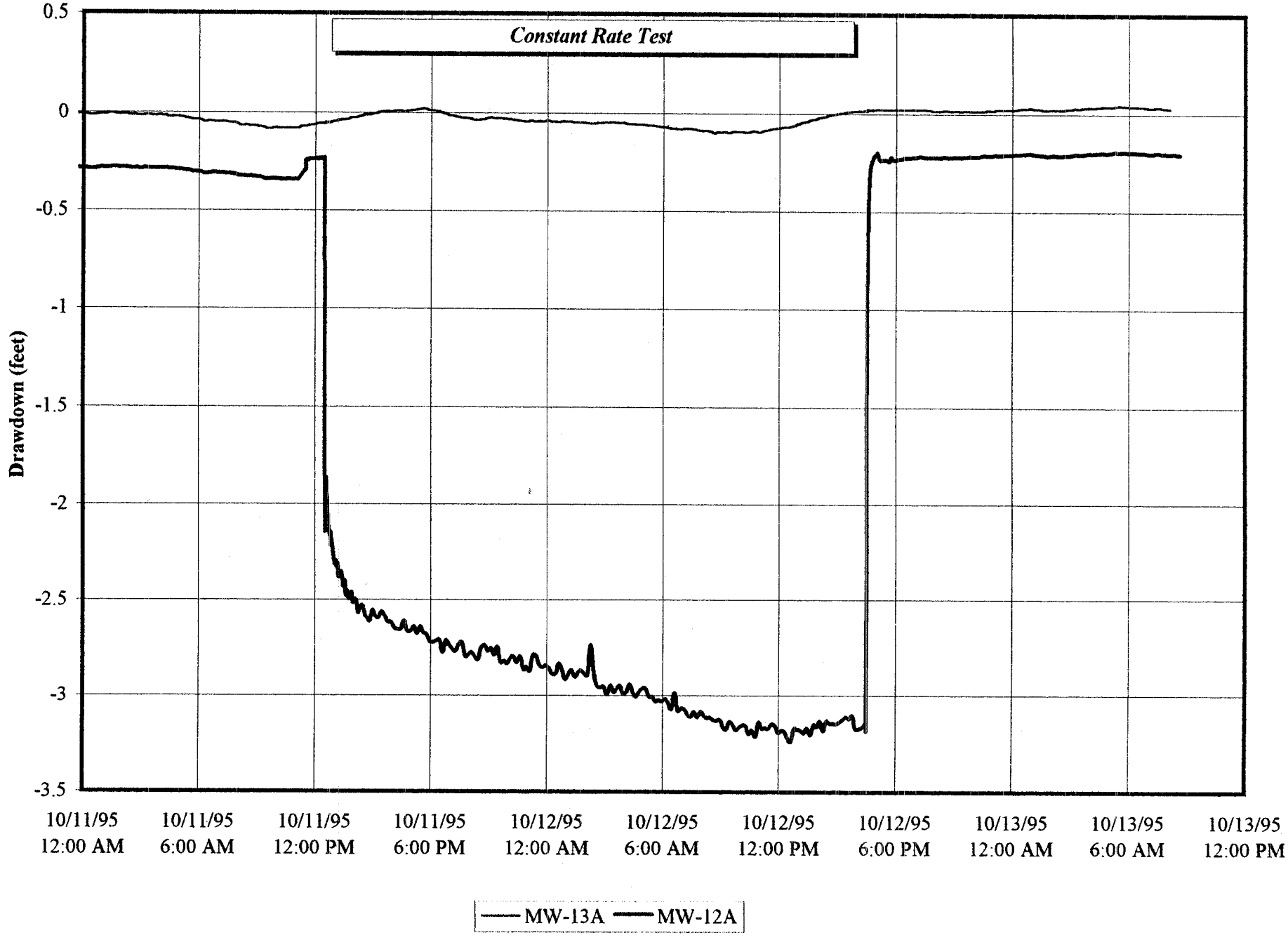
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-11A



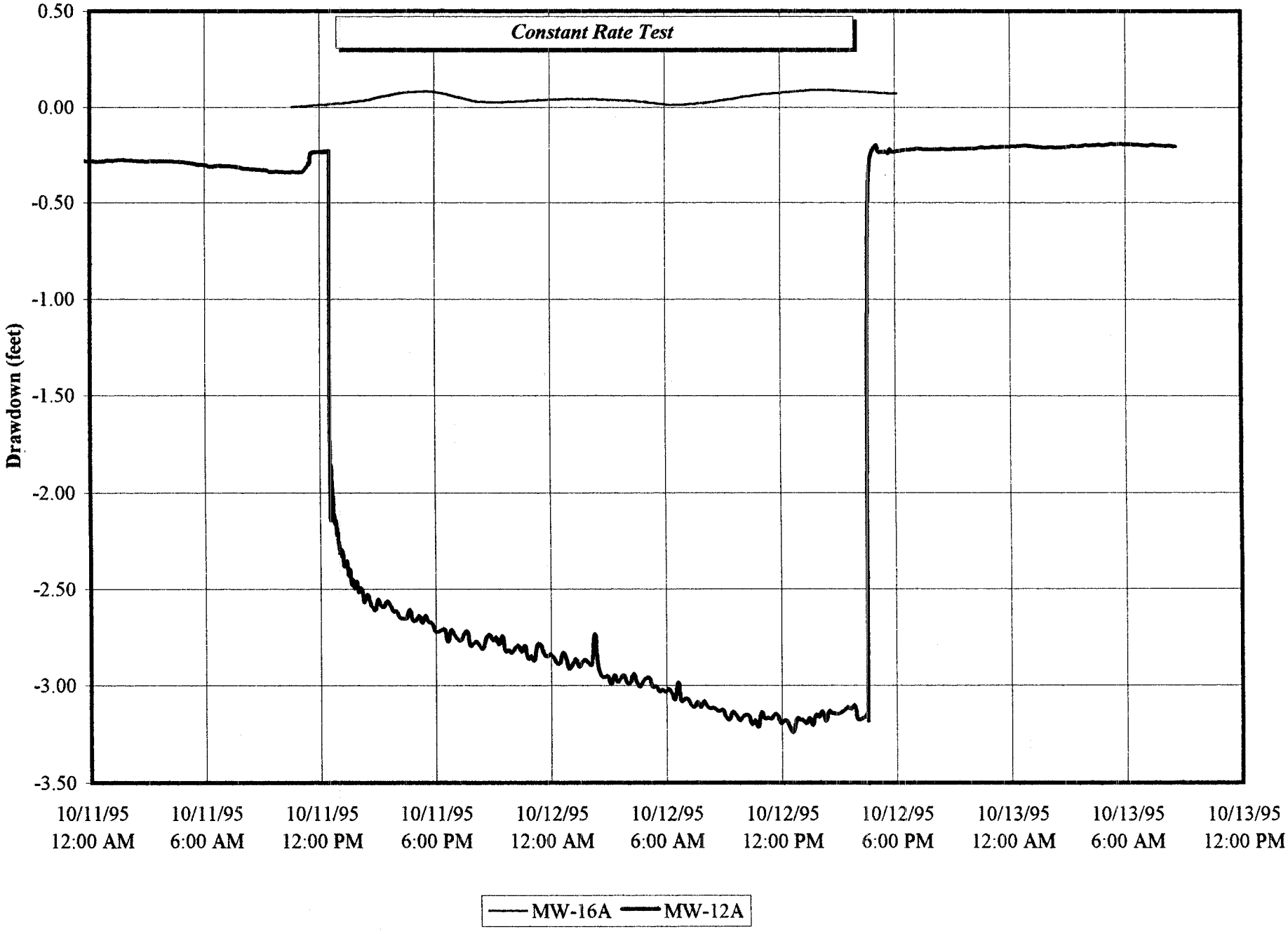
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-13A



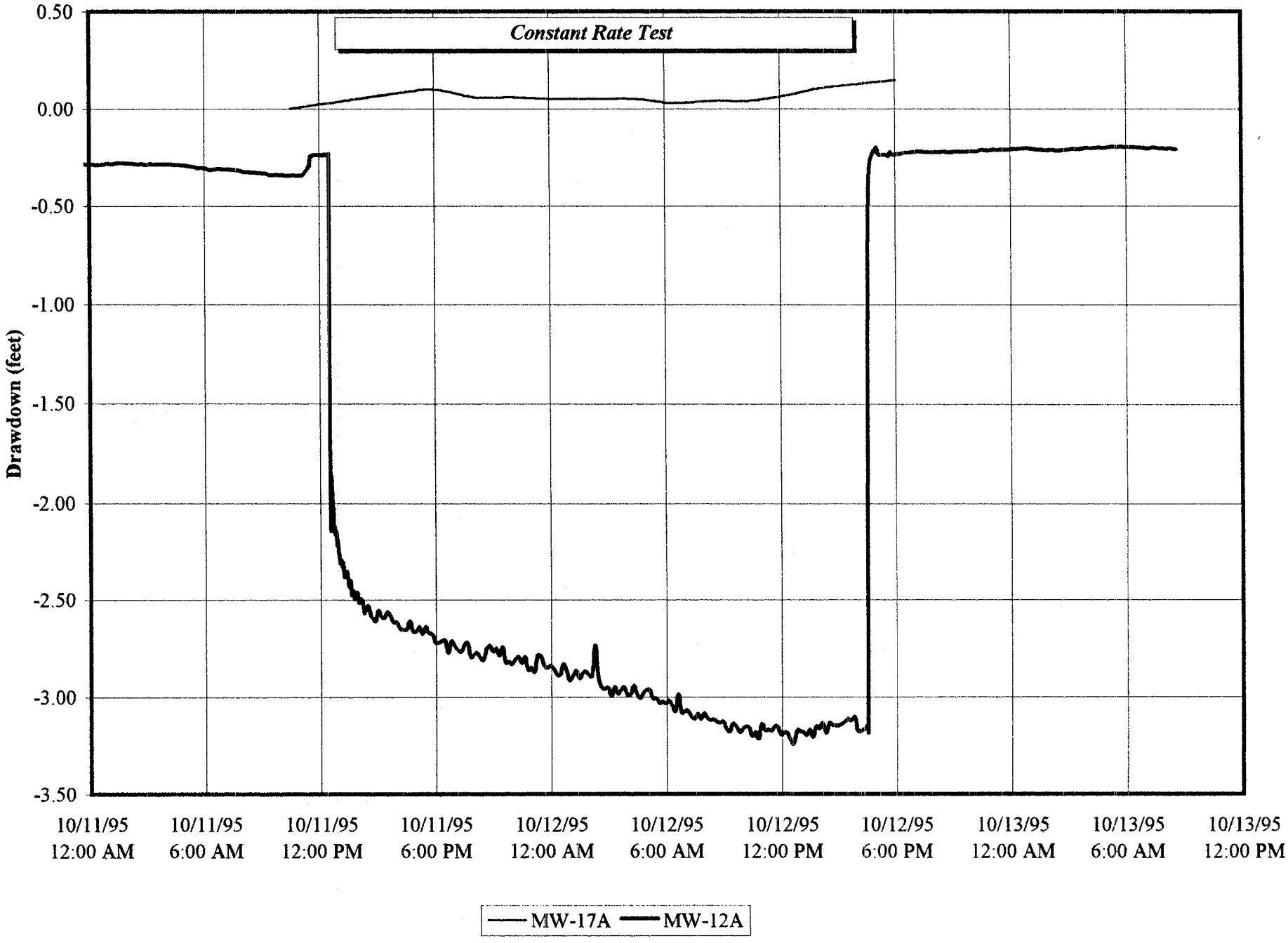
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-16A



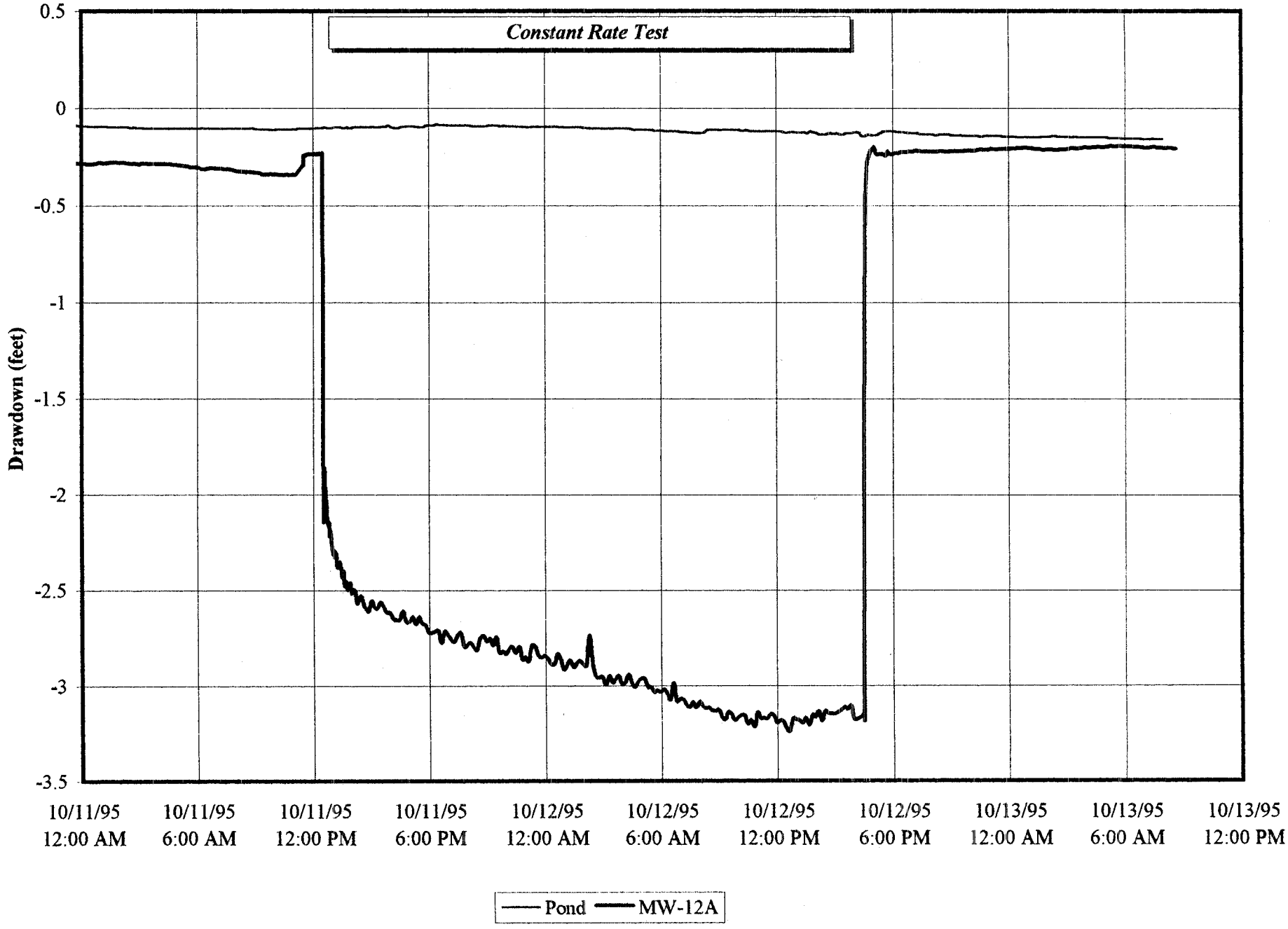
CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and Monitoring Well MW-17A



CONSTANT RATE PUMP TEST

Drawdown in Pumping Well MW-12A and the Pond



WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-2

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	6.87	14:03	
10/11/95	8.07	16:12	
10/11/95	6.91	18:06	
10/11/95	6.97	20:20	
10/11/95	6.99	22:19	
10/12/95	7.01	00:35	
10/12/95	6.98	2:34	
10/12/95	6.92	4:44	
10/12/95	6.89	6:40	
10/12/95	6.83	8:40	
10/12/95	6.80	10:33	
10/12/95	6.80	12:35	
10/12/95	6.79	14:29	
10/12/95	6.78	18:10	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-3

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	9.51	12:38	
10/11/95	9.52	12:46	
10/11/95	9.51	12:53	
10/11/95	9.50	13:02	
10/11/95	9.51	13:10	
10/11/95	9.51	13:16	
10/11/95	9.51	13:47	
10/11/95	9.50	14:42	
10/11/95	9.49	15:35	
10/11/95	9.49	16:38	
10/11/95	9.48	17:35	
10/11/95	9.51	18:27	
10/11/95	9.54	19:58	
10/11/95	9.54	21:07	
10/11/95	9.54	22:04	
10/11/95	9.56	23:13	
10/12/95	9.55	00:17	
10/12/95	9.56	1:19	
10/12/95	9.57	2:15	
10/12/95	9.56	3:26	
10/12/95	9.57	4:23	
10/12/95	9.57	5:29	
10/12/95	9.58	6:22	
10/12/95	9.60	8:10	
10/12/95	9.60	9:08	
10/12/95	9.60	10:02	
10/12/95	9.60	11:07	
10/12/95	9.57	12:04	
10/12/95	9.57	13:13	
10/12/95	9.54	14:02	
10/12/95	9.52	15:07	
10/12/95	9.50	16:36	(RECOVERY)
10/12/95	9.50	16:52	(RECOVERY)
10/12/95	9.50	16:10	(RECOVERY)
10/12/95	9.49	17:36	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-6A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	12.39	13:29	
10/11/95	12.35	15:24	
10/11/95	12.35	17:22	
10/11/95	12.40	19:25	
10/11/95	12.40	21:40	
10/11/95	12.41	23:53	
10/12/95	12.42	1:51	
10/12/95	12.41	4:00	
10/12/95	12.42	6:00	
10/12/95	12:43	7:59	
10/12/95	12.42	9:49	
10/12/95	12.40	11:50	
10/12/95	12.36	13:48	
10/12/95	12.33	17:17	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-6B

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	12.79	13:30	
10/11/95	12.79	15:25	
10/11/95	12.78	17:24	
10/11/95	12.79	19:28	
10/11/95	12.80	21:42	
10/11/95	12.83	23:55	
10/12/95	12.84	1:53	
10/12/95	12.83	4:01	
10/12/95	12.83	6:02	
10/12/95	12.84	8:00	
10/12/95	12.84	9:51	
10/12/95	12.84	11:52	
10/12/95	12.83	13:51	
10/12/95	12.79	17:22	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-8A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	13.34	13:37	
10/11/95	13.30	15:42	
10/11/95	13.28	17:41	
10/11/95	13.32	19:44	
10/11/95	13.33	21:54	
10/12/95	13.34	00:07	
10/12/95	13.34	2:05	
10/12/95	13.34	4:12	
10/12/95	13.35	6:13	
10/12/95	13.36	8:16	
10/12/95	13.36	10:07	
10/12/95	13.29	12:09	
10/12/95	13.28	14:08	
10/12/95	13.24	16:42	(RECOVERY)
10/12/95	13.24	16:58	(RECOVERY)
10/12/95	13.23	17:43	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-8B

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	14.42	13:36	
10/11/95	14.39	15:40	
10/11/95	14.38	17:39	
10/11/95	14.43	19:41	
10/11/95	14.44	21:52	
10/12/95	14.44	00:05	
10/12/95	14.45	2:03	
10/12/95	14.45	4:10	
10/12/95	14.46	6:11	
10/12/95	14.46	8:13	
10/12/95	14.46	10:05	
10/12/95	14.45	12:07	
10/12/95	14.41	14:05	
10/12/95	14.34	16:40	(RECOVERY)
10/12/95	14.39	16:56	(RECOVERY)
10/12/95	14.39	17:39	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-9A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	19.59	14:07	
10/11/95	19.60	16:17	
10/11/95	19.70	18:10	
10/11/95	19.75	20:23	
10/11/95	19.75	22:22	
10/12/95	19.75	00:38	
10/12/95	19.75	2:36	
10/12/95	19.76	4:48	
10/12/95	19.77	6:43	
10/12/95	19.73	8:44	
10/12/95	19.76	10:39	
10/12/95	19.73	12:40	
10/12/95	19.72	14:32	
10/12/95	19.73	18:18	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-11A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	10.73	12:35	
10/11/95	10.73	12:41	
10/11/95	10.73	12:48	
10/11/95	10.73	12:56	
10/11/95	10.73	13:05	
10/11/95	10.73	13:13	
10/11/95	10.73	13:19	
10/11/95	10.72	14:35	
10/11/95	10.70	15:30	
10/11/95	10.71	16:33	
10/11/95	10.70	17:28	
10/11/95	10.72	18:32	
10/11/95	10.75	19:34	
10/11/95	10.75	20:55	
10/11/95	10.75	21:46	
10/11/95	10.77	23:00	
10/12/95	10.76	24:00:00	
10/12/95	10.77	1:04	
10/12/95	10.77	1:58	
10/12/95	10.78	3:11	
10/12/95	10.78	4:05	
10/12/95	10.79	5:17	
10/12/95	10.80	6:06	
10/12/95	10.81	8:04	
10/12/95	10.81	9:02	
10/12/95	10.81	9:55	
10/12/95	10.80	11:03	
10/12/95	10.77	11:57	
10/12/95	10.78	13:00	
10/12/95	10.73	13:55	
10/12/95	10.73	15:00	
10/12/95	10.72	16:01	
10/12/95	10.72	16:31	(RECOVERY)
10/12/95	10.71	16:46	(RECOVERY)
10/12/95	10.70	16:02	(RECOVERY)
10/12/95	10.70	17:31	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-11A

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-12A

DATE	WATER LEVEL (TOR,ft)	TIME
10/11/95	9.96	14:10
10/11/95	10.02	15:00
10/11/95	10.12	16:00
10/11/95	10.13	17:00
10/11/95	10.18	18:00
10/11/95	10.22	19:00
10/11/95	10.26	20:00
10/11/95	10.25	21:00
10/11/95	10.31	22:00
10/11/95	10.30	23:00
10/11/95	10.33	24:00:00
10/12/95	10.32	1:00
10/12/95	10.33	2:00
10/12/95	10.38	3:00
10/12/95	10.42	4:00
10/12/95	10.43	5:00
10/12/95	10.44	6:00
10/12/95	10.50	7:00
10/12/95	10.63	8:00
10/12/95	10.67	9:00
10/12/95	10.70	10:00
10/12/95	10.70	11:00
10/12/95	10.70	12:00
10/12/95	10.70	13:00
10/12/95	10.69	14:00
10/12/95	10.69	15:00
10/12/95	10.69	16:00

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-13A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	10.33	12:37	
10/11/95	10.33	12:43	
10/11/95	10.33	12:50	
10/11/95	10.33	12:59	
10/11/95	10.32	13:07	
10/11/95	10.33	13:14	
10/11/95	10.32	13:21	
10/11/95	10.29	14:39	
10/11/95	10.28	15:33	
10/11/95	10.28	16:35	
10/11/95	10.26	17:31	
10/11/95	10.28	18:34	
10/11/95	10:31	19:37	
10/11/95	10.31	20:57	
10/11/95	10.32	21:49	
10/11/95	10.34	23:02	
10/12/95	10.33	0:02:00	
10/12/95	10.34	1:07	
10/12/95	10.34	2:00	
10/12/95	10.34	3:14	
10/12/95	10.35	4:07	
10/12/95	10.36	5:19	
10/12/95	10.36	6:09	
10/12/95	10.37	8:07	
10/12/95	10.33	9:05	
10/12/95	10.37	9:58	
10/12/95	10.37	11:05	
10/12/95	10.35	12:01	
10/12/95	10.34	13:02	
10/12/95	10.30	13:59	
10/12/95	10.27	15:05	
10/12/95	10.26	16:04	
10/12/95	10.26	16:34	(RECOVERY)
10/12/95	10.26	16:49	(RECOVERY)
10/12/95	10.25	16:06	(RECOVERY)
10/12/95	10.26	17:33	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-13A

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-16A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	5.45	14:00	
10/11/95	5.41	16:07	
10/11/95	5.40	17:57	
10/11/95	5.45	20:14	
10/11/95	5.45	22:15	
10/12/95	5.44	00:32	
10/12/95	5.44	2:31	
10/12/95	5.45	4:41	
10/12/95	5.47	6:35	
10/12/95	5.45	8:36	
10/12/95	5.42	10:30	
10/12/95	5.40	12:32	
10/12/95	5.39	14:25	
10/12/95	5.41	18:06	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
POND

DATE	WATER LEVEL (TOR/BM, ft)	TIME	
10/11/95	8.90/2.64	13:42	
10/11/95	7.90/2.74	15:47	
10/11/95	7.91/2.75	16:45	
10/11/95	7.90/2.75	17:45	
10/11/95	7.90/2.75	13:44	
10/11/95	7.91/2.67	19:51	
10/11/95	7.91/2.70	21:03	
10/11/95	7.90/2.69	21:58	
10/11/95	7.91/2.67	23:07	
10/12/95	7.91/2.67	00:11	
10/12/95	7.91/2.68	1:12:00	
10/12/95	7.91/2.65	2:09	
10/12/95	7.91/2.66	3:19	
10/12/95	7.92/2.68	4:16	
10/12/95	7.92/2.67	5:24	
10/12/95	7.92/2.67	6:16	
10/12/95	7.92/2.76	8:21	
10/12/95	7.89/2.73	9:12	
10/12/95	7.93/2.77	10:12	
10/12/95	7.93/2.76	11:14	
10/12/95	7.92/2.68	12:14	
10/12/95	7.92/2.68	13:08	
10/12/95	7.93/2.77	14:14	
10/12/95	7.93/2.76	15:12	
10/12/95	7.93/2.76	16:12	
10/12/95	2.75	17:48	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
BAROMETER

DATE	BAROMETER READING (psi)	TIME	
10/11/95	29.00	13:23	
10/11/95	28.95	15:18	
10/11/95	28.9	18:00	
10/11/95	28.8	20:00	
10/11/95	28.8	21:35	
10/11/95	28.8	23:47	
10/12/95	28.8	1:46	
10/12/95	28.8	3:54	
10/12/95	28.90	8:00	
10/12/95	28.9	10:00	
10/12/95	29.2	12:00	
10/12/95	29.2	13:00	
10/12/95	29.0	13:57	
10/12/95	28.9	15:00	
10/12/95	28.9	16:30	(RECOVERY)
10/12/95	28.9	16:02	(RECOVERY)
10/12/95	28.9	16:47	(RECOVERY)
10/12/95	28.9	17:30	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
MW-17A

DATE	WATER LEVEL (TOR,ft)	TIME	
10/11/95	12.55	13:57	
10/11/95	12.52	16:02	
10/11/95	12.50	17:59	
10/11/95	12.54	20:08	
10/11/95	12.54	22:11	
10/12/95	12.55	00:28	
10/12/95	12.55	2:27	
10/12/95	12.55	4:36	
10/12/95	12.57	6:32	
10/12/95	12.56	8:32	
10/12/95	12.56	10:25	
10/12/95	12.53	12:27	
10/12/95	12.49	14:20	
10/12/95	12.45	18:02	(RECOVERY)

WESTINGHOUSE ELECTRIC CORPORATION
SPECIALTY METALS PLANT
BLAIRSVILLE, PENNSYLVANIA
WATER LEVEL MEASUREMENTS FROM CONSTANT RATE TEST
RAIN GAGE

DATE	WATER LEVEL IN RAIN GAGE (in.)	TIME	
10/11/95	0	15:30	
10/11/95	0	17:30	
10/11/95	0	20:02	
10/11/95	0	21:40	
10/11/95	0	23:48	
10/12/95	0	1:47	
10/12/95	0	4:16	
10/12/95	0	8:00	
10/12/95	0	10:00	
10/12/95	0	12:00	
10/12/95	0	13:15	
10/12/95	0	13:56	
10/12/95	0	15:00	
10/12/95	0	17:30	(RECOVERY)

CUMMINGS RITER CONSULTANTS, INC.

By DPC Date 10-25-95 Subject Blairsville Sheet No. 1 of 2

Chkd. By WAB Date 10-31-95 Transmissivity Calculation - Drawdown Proj. No. 93-132

For Transmissivity,

$$T = \frac{264\,Q}{\Delta S}$$

(Driscoll, Groundwater and Wells, pg 220-222)

where

T = coefficient of Transmissivity, in gpd/ft

Q = pumping rate in gpm

ΔS = slope of the time drawdown graph expressed as the change in drawdown between any two times on the log scale whose ratio is 10 (one log cycle)

For pumping well MW-12A

$$T = \frac{264\,Q}{\Delta S}$$

T = ?

Q = 1.0 gpm

ΔS = 0.46 ft (From Time-drawdown graph)

$$T = \frac{(264)(1.0\,gpm)}{(0.46\,ft)} = \boxed{573.9\ gpd/ft}$$

For Hydraulic Conductivity (Driscoll, Groundwater and Wells, pg 76)

$$T = bK \Rightarrow K = \frac{T}{b} = \frac{(573.9\ gpd/ft)}{(12.0\,ft)} = \boxed{47.8\ gpd/ft^2}$$

where

T = coefficient of Transmissivity in gpd/ft

b = saturated thickness of the aquifer (ft)

K = hydraulic conductivity (gpd/ft^2)