

Analytical Sequence

Client: First Environment, Inc.

SDG No.: Q2814

Project: USACE018-44 DOD

Instrument ID: ECD_O

GC Column: ZB-MR1

ID: 0.32 (mm)

Inst. Calib. Date(s): 07/23/2025 07/23/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	07/23/2025	11:14	PO112413.D	8.69	3.67
AR1660ICC1000	AR1660ICC1000	07/23/2025	11:32	PO112414.D	8.70	3.67
AR1660ICC750	AR1660ICC750	07/23/2025	11:50	PO112415.D	8.69	3.67
AR1660ICC500	AR1660ICC500	07/23/2025	12:08	PO112416.D	8.69	3.67
AR1660ICC250	AR1660ICC250	07/23/2025	12:27	PO112417.D	8.69	3.67
AR1660ICC050	AR1660ICC050	07/23/2025	12:45	PO112418.D	8.69	3.67
AR1221ICC500	AR1221ICC500	07/23/2025	13:03	PO112419.D	8.69	3.67
AR1232ICC500	AR1232ICC500	07/23/2025	13:22	PO112420.D	8.69	3.67
AR1242ICC1000	AR1242ICC1000	07/23/2025	13:40	PO112421.D	8.69	3.67
AR1242ICC750	AR1242ICC750	07/23/2025	13:59	PO112422.D	8.69	3.67
AR1242ICC500	AR1242ICC500	07/23/2025	14:17	PO112423.D	8.69	3.67
AR1242ICC250	AR1242ICC250	07/23/2025	14:36	PO112424.D	8.69	3.67
AR1242ICC050	AR1242ICC050	07/23/2025	14:54	PO112425.D	8.70	3.67
AR1248ICC1000	AR1248ICC1000	07/23/2025	15:13	PO112426.D	8.69	3.67
AR1248ICC750	AR1248ICC750	07/23/2025	15:31	PO112427.D	8.69	3.67
AR1248ICC500	AR1248ICC500	07/23/2025	15:48	PO112428.D	8.69	3.67
AR1248ICC250	AR1248ICC250	07/23/2025	16:07	PO112429.D	8.70	3.67
AR1248ICC050	AR1248ICC050	07/23/2025	16:25	PO112430.D	8.69	3.67
AR1254ICC1000	AR1254ICC1000	07/23/2025	16:44	PO112431.D	8.69	3.67
AR1254ICC750	AR1254ICC750	07/23/2025	17:02	PO112432.D	8.69	3.67
AR1254ICC500	AR1254ICC500	07/23/2025	17:21	PO112433.D	8.70	3.67
AR1254ICC250	AR1254ICC250	07/23/2025	17:39	PO112434.D	8.69	3.67
AR1254ICC050	AR1254ICC050	07/23/2025	17:57	PO112435.D	8.69	3.67
AR1262ICC500	AR1262ICC500	07/23/2025	18:16	PO112436.D	8.70	3.67
AR1268ICC1000	AR1268ICC1000	07/23/2025	18:34	PO112437.D	8.70	3.67
AR1268ICC750	AR1268ICC750	07/23/2025	18:53	PO112438.D	8.70	3.67
AR1268ICC500	AR1268ICC500	07/23/2025	19:11	PO112439.D	8.70	3.67
AR1268ICC250	AR1268ICC250	07/23/2025	19:28	PO112440.D	8.69	3.67
AR1268ICC050	AR1268ICC050	07/23/2025	19:47	PO112441.D	8.70	3.67
AR1660CCC500	AR1660CCC500	08/13/2025	15:57	PO112911.D	8.69	3.67
IBLK	IBLK	08/13/2025	17:07	PO112915.D	8.69	3.66
FB	Q2814-16	08/13/2025	17:24	PO112916.D	8.69	3.67
TW-84SB-E	Q2814-01	08/13/2025	17:41	PO112917.D	8.69	3.67
TW-17M-W	Q2814-03	08/13/2025	18:33	PO112920.D	8.69	3.67
AR1660CCC500	AR1660CCC500	08/13/2025	20:35	PO112924.D	8.69	3.67
IBLK	IBLK	08/13/2025	22:19	PO112928.D	8.69	3.67
AR1660CCC500	AR1660CCC500	08/14/2025	08:33	PO112930.D	8.69	3.67
AR1254CCC500	AR1254CCC500	08/14/2025	09:28	PO112933.D	8.69	3.67
IBLK	IBLK	08/14/2025	09:46	PO112934.D	8.69	3.67
TW-518R-S	Q2814-17	08/14/2025	10:23	PO112936.D	8.69	3.67
AR1660CCC500	AR1660CCC500	08/14/2025	15:27	PO112945.D	8.69	3.67
AR1254CCC500	AR1254CCC500	08/14/2025	16:20	PO112948.D	8.69	3.67

Analytical Sequence

LBLK	LBLK	08/14/2025	16:37	PO112949.D	8.68	3.67
LBLK	LBLK	08/01/2025	11:49	PP074167.D	10.44	4.66
AR1660ICC1000	AR1660ICC1000	08/01/2025	12:05	PP074168.D	10.44	4.66
AR1660ICC750	AR1660ICC750	08/01/2025	12:22	PP074169.D	10.44	4.66
AR1660ICC500	AR1660ICC500	08/01/2025	12:38	PP074170.D	10.44	4.66
AR1660ICC250	AR1660ICC250	08/01/2025	12:54	PP074171.D	10.44	4.66
AR1660ICC050	AR1660ICC050	08/01/2025	13:42	PP074172.D	10.44	4.66
AR1221ICC500	AR1221ICC500	08/01/2025	13:58	PP074173.D	10.44	4.66
AR1232ICC500	AR1232ICC500	08/01/2025	14:15	PP074174.D	10.44	4.66
AR1242ICC1000	AR1242ICC1000	08/01/2025	14:31	PP074175.D	10.44	4.66
AR1242ICC750	AR1242ICC750	08/01/2025	14:47	PP074176.D	10.44	4.66
AR1242ICC500	AR1242ICC500	08/01/2025	15:03	PP074177.D	10.43	4.66
AR1242ICC250	AR1242ICC250	08/01/2025	15:19	PP074178.D	10.44	4.66
AR1242ICC050	AR1242ICC050	08/01/2025	15:36	PP074179.D	10.43	4.66
AR1248ICC500	AR1248ICC500	08/01/2025	16:57	PP074182.D	10.43	4.66
AR1254ICC1000	AR1254ICC1000	08/01/2025	18:02	PP074185.D	10.43	4.66
AR1254ICC750	AR1254ICC750	08/01/2025	18:18	PP074186.D	10.43	4.66
AR1254ICC500	AR1254ICC500	08/01/2025	18:34	PP074187.D	10.43	4.66
AR1254ICC250	AR1254ICC250	08/01/2025	18:50	PP074188.D	10.43	4.66
AR1254ICC050	AR1254ICC050	08/01/2025	19:23	PP074189.D	10.43	4.66
AR1262ICC500	AR1262ICC500	08/01/2025	19:39	PP074190.D	10.43	4.66
AR1268ICC500	AR1268ICC500	08/01/2025	20:28	PP074193.D	10.43	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	15:54	PP074348.D	10.44	4.66
LBLK	LBLK	08/13/2025	16:42	PP074351.D	10.45	4.66
PB169224BL	PB169224BL	08/13/2025	16:59	PP074352.D	10.44	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	20:30	PP074362.D	10.44	4.66
LBLK	LBLK	08/13/2025	21:52	PP074365.D	10.44	4.66
AR1660CCC500	AR1660CCC500	08/14/2025	08:27	PP074373.D	10.44	4.66
LBLK	LBLK	08/14/2025	09:17	PP074376.D	10.44	4.66
PB169224BS	PB169224BS	08/14/2025	09:49	PP074378.D	10.44	4.66
PB169224BSD	PB169224BSD	08/14/2025	10:06	PP074379.D	10.44	4.66
AR1660CCC500	AR1660CCC500	08/14/2025	14:22	PP074387.D	10.44	4.66
LBLK	LBLK	08/14/2025	15:11	PP074390.D	10.44	4.66

Analytical Sequence

Client: First Environment, Inc.

SDG No.: Q2814

Project: USACE018-44 DOD

Instrument ID: ECD_O

GC Column: ZB-MR2

ID: 0.32 (mm)

Inst. Calib. Date(s): 07/23/2025

07/23/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

CLIENT ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
IBLK	IBLK	07/23/2025	11:14	PO112413.D	8.64	3.66
AR1660ICC1000	AR1660ICC1000	07/23/2025	11:32	PO112414.D	8.64	3.66
AR1660ICC750	AR1660ICC750	07/23/2025	11:50	PO112415.D	8.64	3.66
AR1660ICC500	AR1660ICC500	07/23/2025	12:08	PO112416.D	8.64	3.66
AR1660ICC250	AR1660ICC250	07/23/2025	12:27	PO112417.D	8.64	3.66
AR1660ICC050	AR1660ICC050	07/23/2025	12:45	PO112418.D	8.64	3.66
AR1221ICC500	AR1221ICC500	07/23/2025	13:03	PO112419.D	8.64	3.66
AR1232ICC500	AR1232ICC500	07/23/2025	13:22	PO112420.D	8.64	3.66
AR1242ICC1000	AR1242ICC1000	07/23/2025	13:40	PO112421.D	8.64	3.66
AR1242ICC750	AR1242ICC750	07/23/2025	13:59	PO112422.D	8.64	3.66
AR1242ICC500	AR1242ICC500	07/23/2025	14:17	PO112423.D	8.64	3.66
AR1242ICC250	AR1242ICC250	07/23/2025	14:36	PO112424.D	8.64	3.66
AR1242ICC050	AR1242ICC050	07/23/2025	14:54	PO112425.D	8.64	3.66
AR1248ICC1000	AR1248ICC1000	07/23/2025	15:13	PO112426.D	8.64	3.66
AR1248ICC750	AR1248ICC750	07/23/2025	15:31	PO112427.D	8.64	3.66
AR1248ICC500	AR1248ICC500	07/23/2025	15:48	PO112428.D	8.64	3.66
AR1248ICC250	AR1248ICC250	07/23/2025	16:07	PO112429.D	8.64	3.66
AR1248ICC050	AR1248ICC050	07/23/2025	16:25	PO112430.D	8.64	3.66
AR1254ICC1000	AR1254ICC1000	07/23/2025	16:44	PO112431.D	8.64	3.66
AR1254ICC750	AR1254ICC750	07/23/2025	17:02	PO112432.D	8.64	3.66
AR1254ICC500	AR1254ICC500	07/23/2025	17:21	PO112433.D	8.64	3.66
AR1254ICC250	AR1254ICC250	07/23/2025	17:39	PO112434.D	8.64	3.66
AR1254ICC050	AR1254ICC050	07/23/2025	17:57	PO112435.D	8.64	3.66
AR1262ICC500	AR1262ICC500	07/23/2025	18:16	PO112436.D	8.64	3.66
AR1268ICC1000	AR1268ICC1000	07/23/2025	18:34	PO112437.D	8.64	3.66
AR1268ICC750	AR1268ICC750	07/23/2025	18:53	PO112438.D	8.64	3.66
AR1268ICC500	AR1268ICC500	07/23/2025	19:11	PO112439.D	8.64	3.66
AR1268ICC250	AR1268ICC250	07/23/2025	19:28	PO112440.D	8.64	3.66
AR1268ICC050	AR1268ICC050	07/23/2025	19:47	PO112441.D	8.64	3.66
AR1660CCC500	AR1660CCC500	08/13/2025	15:57	PO112911.D	8.63	3.66
IBLK	IBLK	08/13/2025	17:07	PO112915.D	8.63	3.66
FB	Q2814-16	08/13/2025	17:24	PO112916.D	8.63	3.66
TW-84SB-E	Q2814-01	08/13/2025	17:41	PO112917.D	8.63	3.66
TW-17M-W	Q2814-03	08/13/2025	18:33	PO112920.D	8.63	3.66
AR1660CCC500	AR1660CCC500	08/13/2025	20:35	PO112924.D	8.63	3.66
IBLK	IBLK	08/13/2025	22:19	PO112928.D	8.63	3.66
AR1660CCC500	AR1660CCC500	08/14/2025	08:33	PO112930.D	8.63	3.66
AR1254CCC500	AR1254CCC500	08/14/2025	09:28	PO112933.D	8.63	3.66
IBLK	IBLK	08/14/2025	09:46	PO112934.D	8.63	3.66
TW-518R-S	Q2814-17	08/14/2025	10:23	PO112936.D	8.63	3.66
AR1660CCC500	AR1660CCC500	08/14/2025	15:27	PO112945.D	8.63	3.66
AR1254CCC500	AR1254CCC500	08/14/2025	16:20	PO112948.D	8.63	3.66

Analytical Sequence

IBLK	IBLK	08/14/2025	16:37	PO112949.D	8.63	3.66
IBLK	IBLK	08/01/2025	11:49	PP074167.D	8.83	3.80
AR1660ICC1000	AR1660ICC1000	08/01/2025	12:05	PP074168.D	8.83	3.81
AR1660ICC750	AR1660ICC750	08/01/2025	12:22	PP074169.D	8.83	3.80
AR1660ICC500	AR1660ICC500	08/01/2025	12:38	PP074170.D	8.83	3.81
AR1660ICC250	AR1660ICC250	08/01/2025	12:54	PP074171.D	8.83	3.81
AR1660ICC050	AR1660ICC050	08/01/2025	13:42	PP074172.D	8.83	3.80
AR1221ICC500	AR1221ICC500	08/01/2025	13:58	PP074173.D	8.83	3.80
AR1232ICC500	AR1232ICC500	08/01/2025	14:15	PP074174.D	8.83	3.80
AR1242ICC1000	AR1242ICC1000	08/01/2025	14:31	PP074175.D	8.83	3.80
AR1242ICC750	AR1242ICC750	08/01/2025	14:47	PP074176.D	8.82	3.80
AR1242ICC500	AR1242ICC500	08/01/2025	15:03	PP074177.D	8.83	3.81
AR1242ICC250	AR1242ICC250	08/01/2025	15:19	PP074178.D	8.82	3.81
AR1242ICC050	AR1242ICC050	08/01/2025	15:36	PP074179.D	8.82	3.80
AR1248ICC500	AR1248ICC500	08/01/2025	16:57	PP074182.D	8.82	3.81
AR1254ICC1000	AR1254ICC1000	08/01/2025	18:02	PP074185.D	8.82	3.81
AR1254ICC750	AR1254ICC750	08/01/2025	18:18	PP074186.D	8.82	3.80
AR1254ICC500	AR1254ICC500	08/01/2025	18:34	PP074187.D	8.82	3.80
AR1254ICC250	AR1254ICC250	08/01/2025	18:50	PP074188.D	8.82	3.80
AR1254ICC050	AR1254ICC050	08/01/2025	19:23	PP074189.D	8.82	3.80
AR1262ICC500	AR1262ICC500	08/01/2025	19:39	PP074190.D	8.82	3.80
AR1268ICC500	AR1268ICC500	08/01/2025	20:28	PP074193.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/13/2025	15:54	PP074348.D	8.82	3.80
IBLK	IBLK	08/13/2025	16:42	PP074351.D	8.82	3.80
PB169224BL	PB169224BL	08/13/2025	16:59	PP074352.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/13/2025	20:30	PP074362.D	8.82	3.80
IBLK	IBLK	08/13/2025	21:52	PP074365.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/14/2025	08:27	PP074373.D	8.82	3.80
IBLK	IBLK	08/14/2025	09:17	PP074376.D	8.82	3.80
PB169224BS	PB169224BS	08/14/2025	09:49	PP074378.D	8.82	3.80
PB169224BSD	PB169224BSD	08/14/2025	10:06	PP074379.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/14/2025	14:22	PP074387.D	8.82	3.80
IBLK	IBLK	08/14/2025	15:11	PP074390.D	8.82	3.80