

Analytical Sequence

Client: First Environment, Inc.

SDG No.: Q2820

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	08/12/2025	08:54	PO112850.D	8.69	3.67
IBLK	IBLK	08/12/2025	10:05	PO112854.D	8.69	3.66
SOIL-DUP-2	Q2820-10	08/12/2025	14:38	PO112864.D	8.69	3.67
AR1660CCC500	AR1660CCC500	08/12/2025	15:50	PO112865.D	8.69	3.67
IBLK	IBLK	08/12/2025	17:00	PO112869.D	8.69	3.67
22M-S	Q2820-24	08/12/2025	17:19	PO112870.D	8.69	3.67
AR1660CCC500	AR1660CCC500	08/12/2025	21:09	PO112880.D	8.69	3.67
IBLK	IBLK	08/12/2025	22:56	PO112884.D	8.69	3.67
IBLK	IBLK	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

Analytical Sequence

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	08/12/2025	09:51	PP074302.D	10.43	4.66
I.BLK	I.BLK	08/12/2025	10:43	PP074305.D	10.44	4.66
PB169205BL	PB169205BL	08/12/2025	12:48	PP074308.D	10.44	4.66
PB169205BS	PB169205BS	08/12/2025	13:05	PP074309.D	10.44	4.66
BIN0009-DRIVEWAY-TP-SOUTH-EAST	Q2830-01MS	08/12/2025	13:37	PP074311.D	10.44	4.66
BIN0009-DRIVEWAY-TP-SOUTH-EAST	Q2830-01MSD	08/12/2025	13:53	PP074312.D	10.44	4.66
AR1660CCC500	AR1660CCC500	08/12/2025	15:48	PP074316.D	10.44	4.66
I.BLK	I.BLK	08/12/2025	16:53	PP074319.D	10.43	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	09:04	PP074334.D	10.44	4.66
I.BLK	I.BLK	08/13/2025	10:07	PP074337.D	10.44	4.66
PB169227BS	PB169227BS	08/13/2025	12:55	PP074340.D	10.44	4.66
TG-S02MS	Q2832-03MS	08/13/2025	14:00	PP074344.D	10.44	4.66
TG-S02MSD	Q2832-03MSD	08/13/2025	14:16	PP074345.D	10.45	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	15:54	PP074348.D	10.44	4.66
I.BLK	I.BLK	08/13/2025	16:42	PP074351.D	10.45	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	20:30	PP074362.D	10.44	4.66
I.BLK	I.BLK	08/13/2025	21:52	PP074365.D	10.44	4.66
PB169227BL	PB169227BL	08/13/2025	22:08	PP074366.D	10.44	4.66
705R-S	Q2820-09	08/13/2025	22:24	PP074367.D	10.44	4.66
AR1660CCC500	AR1660CCC500	08/13/2025	23:30	PP074368.D	10.44	4.66
I.BLK	I.BLK	08/14/2025	00:51	PP074371.D	10.44	4.66

Analytical Sequence

Client: First Environment, Inc.

SDG No.: Q2820

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	08/12/2025	08:54	PO112850.D	8.63	3.66
IBLK	IBLK	08/12/2025	10:05	PO112854.D	8.63	3.66
SOIL-DUP-2	Q2820-10	08/12/2025	14:38	PO112864.D	8.63	3.66
AR1660CCC500	AR1660CCC500	08/12/2025	15:50	PO112865.D	8.63	3.66
IBLK	IBLK	08/12/2025	17:00	PO112869.D	8.63	3.66
22M-S	Q2820-24	08/12/2025	17:19	PO112870.D	8.63	3.66
AR1660CCC500	AR1660CCC500	08/12/2025	21:09	PO112880.D	8.63	3.66
IBLK	IBLK	08/12/2025	22:56	PO112884.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

Analytical Sequence

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	08/12/2025	09:51	PP074302.D	8.82	3.80
IBLK	IBLK	08/12/2025	10:43	PP074305.D	8.82	3.81
PB169205BL	PB169205BL	08/12/2025	12:48	PP074308.D	8.82	3.80
PB169205BS	PB169205BS	08/12/2025	13:05	PP074309.D	8.82	3.80
BIN0009-DRIVEWAY-TP-SOUTH-EAST	Q2830-01MS	08/12/2025	13:37	PP074311.D	8.82	3.80
BIN0009-DRIVEWAY-TP-SOUTH-EAST	Q2830-01MSD	08/12/2025	13:53	PP074312.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/12/2025	15:48	PP074316.D	8.82	3.80
IBLK	IBLK	08/12/2025	16:53	PP074319.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/13/2025	09:04	PP074334.D	8.82	3.80
IBLK	IBLK	08/13/2025	10:07	PP074337.D	8.82	3.80
PB169227BS	PB169227BS	08/13/2025	12:55	PP074340.D	8.82	3.80
TG-S02MS	Q2832-03MS	08/13/2025	14:00	PP074344.D	8.82	3.80
TG-S02MSD	Q2832-03MSD	08/13/2025	14:16	PP074345.D	8.83	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
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
PB169227BL	PB169227BL	08/13/2025	22:08	PP074366.D	8.82	3.80
705R-S	Q2820-09	08/13/2025	22:24	PP074367.D	8.82	3.80
AR1660CCC500	AR1660CCC500	08/13/2025	23:30	PP074368.D	8.82	3.80
IBLK	IBLK	08/14/2025	00:51	PP074371.D	8.82	3.80