Attachment 5: X2 Results (CalSim 3)

The following results of the CalSim 3 model are included for X2 position conditions for the following scenarios:

- Baseline Conditions (082624)

- Proposed Project (082624)

- ITP Spring Outflow (082924)

- March VA Fallowing Flows (082924)

Title	Model Parameter	Table Numbers	Figure Numbers
X2 Position	X2_PRV	4K-5-1-1a to 4K-5-1-1c	4K-5-1a to 4K-5-1r

Report formats:

- Monthly tables comparing two scenarios (exceedance values, long-term average, and average by water year type).

- Monthly pattern charts (long-term average and average by water year type) including all scenarios.

- Monthly exceedance charts (all months) including all scenarios.

Table 4K-5-1-1a. X2 Position, Baseline Conditions 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.7	86.0	79.8	77.4	78.6	82.1	87.0	90.1	91.8	92.9
20% Exceedance	92.4	91.9	89.0	83.3	74.4	71.6	75.6	78.6	82.3	85.6	89.1	91.6
30% Exceedance	91.8	90.7	87.4	81.1	68.0	66.0	71.5	76.6	81.2	85.2	88.3	90.4
40% Exceedance	91.0	90.1	86.4	73.2	65.1	64.0	67.9	72.8	80.6	83.3	87.1	89.8
50% Exceedance	89.5	88.0	84.5	69.4	60.8	61.7	64.0	69.0	77.7	82.5	85.8	88.5
60% Exceedance	80.1	85.4	80.0	65.2	57.0	57.4	61.5	65.9	76.2	80.2	83.9	80.1
70% Exceedance	80.0	84.5	72.0	59.0	54.3	55.3	60.1	62.8	70.2	78.3	82.5	80.0
80% Exceedance	80.0	83.5	63.4	53.9	52.7	52.9	55.0	58.3	64.4	75.4	82.0	79.9
90% Exceedance	79.9	77.0	56.9	52.2	51.7	51.8	53.0	54.8	59.7	72.3	80.4	79.7
Full Simulation Period Average[a]	86.1	86.1	78.3	69.1	63.3	62.5	65.6	69.1	75.0	80.9	85.2	85.6
Wet Water Years (32%)	84.0	82.5	67.8	56.6	53.2	53.5	56.2	58.9	64.5	73.1	79.7	78.0
Above Normal Water Years (9%)	85.6	86.3	78.1	61.4	57.0	56.7	60.5	63.9	70.7	78.0	83.1	80.0
Below Normal Water Years (20%)	85.5	86.8	82.2	71.8	63.4	61.4	64.6	68.4	76.9	82.2	85.8	88.5
Dry Water Years (21%)	86.4	87.0	82.5	77.9	69.6	68.0	71.8	75.8	81.1	85.2	88.4	90.8
Critical Water Years (18%)	90.2	90.7	87.7	82.0	76.9	76.2	78.7	82.8	86.6	89.6	91.8	92.9

Table 4K-5-1-1b. X2 Position, Proposed Project 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.8	85.8	79.9	76.5	78.8	82.3	87.1	90.2	91.9	92.8
20% Exceedance	92.6	91.8	89.1	83.4	74.2	71.0	74.6	78.1	81.9	85.7	89.2	91.7
30% Exceedance	91.9	90.7	87.7	81.3	68.1	65.4	71.2	76.9	81.0	85.2	88.5	90.8
40% Exceedance	91.0	89.7	86.5	73.2	64.6	63.5	67.7	72.9	80.5	83.3	86.4	89.8
50% Exceedance	89.6	88.2	84.4	69.3	60.7	61.5	64.2	69.5	77.9	82.0	85.4	88.7
60% Exceedance	80.1	85.2	79.5	65.0	57.0	57.4	61.8	66.6	76.3	80.1	83.4	80.1
70% Exceedance	80.0	84.5	71.3	58.9	54.3	55.2	60.1	63.6	69.7	78.0	82.7	80.0
80% Exceedance	80.0	83.6	63.6	53.9	52.7	52.9	55.2	58.5	64.0	74.6	82.3	79.9
90% Exceedance	79.9	78.0	57.0	52.3	51.7	51.8	53.1	54.9	59.5	71.9	81.6	79.8
Full Simulation Period Average[a]	86.2	86.1	78.3	69.2	63.1	62.2	65.5	69.4	74.9	80.7	85.3	85.8
Wet Water Years (32%)	84.1	82.5	67.6	56.5	53.2	53.6	56.4	59.3	64.3	73.0	80.1	78.4
Above Normal Water Years (9%)	85.6	86.3	78.3	61.8	57.0	56.5	60.5	64.4	70.4	76.8	82.7	79.9
Below Normal Water Years (20%)	85.7	86.8	82.2	71.8	63.3	60.9	64.4	69.1	77.0	81.6	85.4	88.8
Dry Water Years (21%)	86.3	87.0	82.6	78.0	69.6	67.4	71.2	75.6	80.9	85.3	88.6	91.0
Critical Water Years (18%)	90.4	90.7	87.7	82.0	76.4	76.0	78.8	82.9	86.7	89.7	91.9	92.9

Table 4K-5-1-1c. X2 Position, Proposed Project 082624 minus Baseline Conditions 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	0.1	-0.2	0.1	-0.9	0.2	0.2	0.1	0.1	0.0	0.0
20% Exceedance	0.1	0.0	0.1	0.1	-0.3	-0.6	-1.0	-0.5	-0.3	0.1	0.1	0.1
30% Exceedance	0.0	0.0	0.2	0.2	0.0	-0.6	-0.3	0.3	-0.1	0.1	0.3	0.3
40% Exceedance	0.1	-0.5	0.0	0.0	-0.5	-0.5	-0.2	0.1	-0.1	0.0	-0.6	0.0
50% Exceedance	0.2	0.2	-0.1	-0.1	-0.1	-0.2	0.2	0.4	0.2	-0.6	-0.4	0.2
60% Exceedance	0.0	-0.1	-0.5	-0.2	-0.1	0.0	0.3	0.7	0.1	-0.1	-0.5	0.0
70% Exceedance	0.0	-0.1	-0.7	-0.1	0.0	-0.1	0.0	0.8	-0.4	-0.3	0.2	-0.1
80% Exceedance	0.0	0.1	0.2	0.0	0.0	0.0	0.3	0.2	-0.4	-0.8	0.3	0.0
90% Exceedance	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.2	-0.3	-0.5	1.2	0.1
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.1	-0.3	-0.1	0.3	-0.1	-0.2	0.1	0.2
Wet Water Years (32%)	0.2	0.0	-0.2	-0.1	0.0	0.0	0.2	0.4	-0.2	-0.1	0.4	0.4
Above Normal Water Years (9%)	0.0	0.0	0.2	0.4	-0.1	-0.1	0.0	0.6	-0.2	-1.2	-0.3	-0.1
Below Normal Water Years (20%)	0.1	0.0	0.0	0.0	-0.1	-0.4	-0.2	0.7	0.0	-0.6	-0.4	0.3
Dry Water Years (21%)	-0.1	0.0	0.1	0.1	-0.1	-0.5	-0.6	-0.2	-0.1	0.0	0.2	0.2
Critical Water Years (18%)	0.2	0.0	0.1	0.0	-0.5	-0.2	0.0	0.1	0.1	0.1	0.0	0.0

[a] Based on the 100-year simulation period.
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Table 4K-5-1-2a. X2 Position, Baseline Conditions 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.7	86.0	79.8	77.4	78.6	82.1	87.0	90.1	91.8	92.9
20% Exceedance	92.4	91.9	89.0	83.3	74.4	71.6	75.6	78.6	82.3	85.6	89.1	91.6
30% Exceedance	91.8	90.7	87.4	81.1	68.0	66.0	71.5	76.6	81.2	85.2	88.3	90.4
40% Exceedance	91.0	90.1	86.4	73.2	65.1	64.0	67.9	72.8	80.6	83.3	87.1	89.8
50% Exceedance	89.5	88.0	84.5	69.4	60.8	61.7	64.0	69.0	77.7	82.5	85.8	88.5
60% Exceedance	80.1	85.4	80.0	65.2	57.0	57.4	61.5	65.9	76.2	80.2	83.9	80.1
70% Exceedance	80.0	84.5	72.0	59.0	54.3	55.3	60.1	62.8	70.2	78.3	82.5	80.0
80% Exceedance	80.0	83.5	63.4	53.9	52.7	52.9	55.0	58.3	64.4	75.4	82.0	79.9
90% Exceedance	79.9	77.0	56.9	52.2	51.7	51.8	53.0	54.8	59.7	72.3	80.4	79.7
Full Simulation Period Average[a]	86.1	86.1	78.3	69.1	63.3	62.5	65.6	69.1	75.0	80.9	85.2	85.6
Wet Water Years (32%)	84.0	82.5	67.8	56.6	53.2	53.5	56.2	58.9	64.5	73.1	79.7	78.0
Above Normal Water Years (9%)	85.6	86.3	78.1	61.4	57.0	56.7	60.5	63.9	70.7	78.0	83.1	80.0
Below Normal Water Years (20%)	85.5	86.8	82.2	71.8	63.4	61.4	64.6	68.4	76.9	82.2	85.8	88.5
Dry Water Years (21%)	86.4	87.0	82.5	77.9	69.6	68.0	71.8	75.8	81.1	85.2	88.4	90.8
Critical Water Years (18%)	90.2	90.7	87.7	82.0	76.9	76.2	78.7	82.8	86.6	89.6	91.8	92.9

Table 4K-5-1-2b. X2 Position, ITP Spring Outflow 082924, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.8	85.8	79.5	77.2	78.6	82.1	87.0	90.1	91.9	92.8
20% Exceedance	92.6	91.7	89.1	83.6	74.2	71.4	75.4	78.7	82.2	85.8	89.3	91.7
30% Exceedance	91.9	90.6	87.5	81.5	68.1	66.0	71.6	76.5	81.1	85.4	88.6	90.8
40% Exceedance	90.9	89.7	86.5	73.2	64.7	63.8	67.9	72.8	80.5	83.5	86.1	89.8
50% Exceedance	89.4	88.1	84.5	69.3	60.7	61.6	63.9	69.1	77.8	82.0	85.3	88.4
60% Exceedance	80.1	85.2	79.6	65.0	57.0	57.5	61.6	65.9	76.1	79.9	83.5	80.1
70% Exceedance	80.0	84.5	71.3	58.9	54.3	55.4	60.1	62.8	69.6	78.2	82.7	79.9
80% Exceedance	80.0	83.6	63.6	53.9	52.7	52.9	54.9	58.3	63.9	74.6	82.2	79.9
90% Exceedance	79.9	78.0	57.0	52.3	51.7	51.8	53.1	54.9	59.5	71.8	81.5	79.8
Full Simulation Period Average[a]	86.1	86.1	78.2	69.1	63.1	62.4	65.6	69.1	74.9	80.7	85.3	85.8
Wet Water Years (32%)	84.1	82.5	67.6	56.6	53.2	53.6	56.2	58.9	64.2	73.1	80.1	78.4
Above Normal Water Years (9%)	85.6	86.3	78.3	61.4	56.9	56.7	60.5	63.9	70.4	77.0	82.8	79.9
Below Normal Water Years (20%)	85.6	86.8	82.2	71.8	63.3	61.2	64.5	68.6	76.9	81.7	85.3	88.6
Dry Water Years (21%)	86.3	87.0	82.6	78.0	69.5	67.8	71.8	75.8	81.1	85.4	88.7	91.0
Critical Water Years (18%)	90.3	90.7	87.7	82.0	76.3	75.9	78.7	82.6	86.5	89.6	91.8	92.9

Table 4K-5-1-2c. X2 Position, ITP Spring Outflow 082924 minus Baseline Conditions 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	0.1	-0.2	-0.3	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
20% Exceedance	0.1	-0.1	0.1	0.3	-0.3	-0.2	-0.1	0.1	0.0	0.2	0.2	0.1
30% Exceedance	0.0	0.0	0.1	0.4	0.1	0.0	0.1	0.0	0.0	0.2	0.3	0.4
40% Exceedance	-0.1	-0.5	0.0	0.0	-0.4	-0.2	0.0	0.0	-0.1	0.2	-1.0	0.0
50% Exceedance	-0.1	0.1	0.0	0.0	-0.1	-0.1	0.0	0.1	0.1	-0.6	-0.5	-0.1
60% Exceedance	0.0	-0.2	-0.4	-0.2	-0.1	0.2	0.0	0.0	-0.1	-0.3	-0.4	0.0
70% Exceedance	0.0	0.0	-0.7	-0.1	0.0	0.1	0.0	0.0	-0.6	-0.1	0.2	-0.1
80% Exceedance	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.5	-0.8	0.2	0.0
90% Exceedance	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.1	-0.3	-0.5	1.1	0.0
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.2	-0.1	0.0	0.0	-0.1	-0.2	0.0	0.2
Wet Water Years (32%)	0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	-0.3	-0.1	0.4	0.4
Above Normal Water Years (9%)	0.0	0.1	0.2	0.0	-0.1	0.0	0.0	0.1	-0.3	-1.1	-0.3	-0.1
Below Normal Water Years (20%)	0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	0.2	0.0	-0.5	-0.5	0.1
Dry Water Years (21%)	-0.1	-0.1	0.1	0.1	-0.1	-0.1	0.0	0.1	0.0	0.1	0.3	0.2
Critical Water Years (18%)	0.1	-0.1	0.0	0.0	-0.6	-0.3	-0.1	-0.2	-0.1	0.0	0.0	0.0

[a] Based on the 100-year simulation period.
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

Table 4K-5-1-3a. X2 Position, Baseline Conditions 082624, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.7	86.0	79.8	77.4	78.6	82.1	87.0	90.1	91.8	92.9
20% Exceedance	92.4	91.9	89.0	83.3	74.4	71.6	75.6	78.6	82.3	85.6	89.1	91.6
30% Exceedance	91.8	90.7	87.4	81.1	68.0	66.0	71.5	76.6	81.2	85.2	88.3	90.4
40% Exceedance	91.0	90.1	86.4	73.2	65.1	64.0	67.9	72.8	80.6	83.3	87.1	89.8
50% Exceedance	89.5	88.0	84.5	69.4	60.8	61.7	64.0	69.0	77.7	82.5	85.8	88.5
60% Exceedance	80.1	85.4	80.0	65.2	57.0	57.4	61.5	65.9	76.2	80.2	83.9	80.1
70% Exceedance	80.0	84.5	72.0	59.0	54.3	55.3	60.1	62.8	70.2	78.3	82.5	80.0
80% Exceedance	80.0	83.5	63.4	53.9	52.7	52.9	55.0	58.3	64.4	75.4	82.0	79.9
90% Exceedance	79.9	77.0	56.9	52.2	51.7	51.8	53.0	54.8	59.7	72.3	80.4	79.7
Full Simulation Period Average[a]	86.1	86.1	78.3	69.1	63.3	62.5	65.6	69.1	75.0	80.9	85.2	85.6
Wet Water Years (32%)	84.0	82.5	67.8	56.6	53.2	53.5	56.2	58.9	64.5	73.1	79.7	78.0
Above Normal Water Years (9%)	85.6	86.3	78.1	61.4	57.0	56.7	60.5	63.9	70.7	78.0	83.1	80.0
Below Normal Water Years (20%)	85.5	86.8	82.2	71.8	63.4	61.4	64.6	68.4	76.9	82.2	85.8	88.5
Dry Water Years (21%)	86.4	87.0	82.5	77.9	69.6	68.0	71.8	75.8	81.1	85.2	88.4	90.8
Critical Water Years (18%)	90.2	90.7	87.7	82.0	76.9	76.2	78.7	82.8	86.6	89.6	91.8	92.9

Table 4K-5-1-3b. X2 Position, March VA Fallowing Flows 082924, Monthly Distance (Km)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93.9	92.7	90.8	85.8	79.6	76.5	78.8	82.3	87.1	90.2	91.9	92.8
20% Exceedance	92.6	91.8	89.1	83.6	74.2	71.2	74.7	78.6	82.1	85.7	89.3	91.7
30% Exceedance	91.9	90.7	87.7	81.3	68.1	65.5	71.1	77.2	81.1	85.2	88.6	90.8
40% Exceedance	91.0	89.7	86.6	73.2	64.6	63.5	68.0	73.2	80.3	83.3	86.3	89.8
50% Exceedance	89.5	88.1	84.3	69.3	60.7	61.4	64.2	69.3	78.0	82.1	85.4	88.7
60% Exceedance	80.1	85.2	79.6	65.0	57.0	57.3	61.8	66.6	76.3	80.1	83.4	80.1
70% Exceedance	80.0	84.5	71.2	58.9	54.3	55.3	60.1	63.6	69.7	78.0	82.7	80.0
80% Exceedance	80.0	83.6	63.6	53.9	52.7	52.9	55.1	58.4	64.0	74.6	82.3	79.9
90% Exceedance	79.9	78.0	57.0	52.3	51.7	51.8	53.1	54.9	59.5	71.9	81.6	79.8
Full Simulation Period Average[a]	86.2	86.1	78.3	69.2	63.1	62.2	65.5	69.5	74.9	80.7	85.3	85.8
Wet Water Years (32%)	84.1	82.5	67.6	56.5	53.2	53.6	56.4	59.3	64.3	73.0	80.1	78.4
Above Normal Water Years (9%)	85.6	86.2	78.3	61.8	56.9	56.6	60.5	64.4	70.4	76.9	82.8	79.9
Below Normal Water Years (20%)	85.7	86.8	82.2	71.8	63.3	60.9	64.4	69.2	77.0	81.6	85.4	88.8
Dry Water Years (21%)	86.3	87.0	82.6	78.0	69.6	67.3	71.3	75.9	81.0	85.3	88.6	91.0
Critical Water Years (18%)	90.4	90.7	87.7	82.0	76.3	75.9	78.8	82.9	86.7	89.7	91.9	92.9

Table 4K-5-1-3c. X2 Position, March VA Fallowing Flows 082924 minus Baseline Conditions 082624, Monthly Distance (Km)

| Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0.0	0.0	0.1	-0.2	-0.2	-0.9	0.2	0.2	0.1	0.1	0.0	0.0
20% Exceedance	0.1	0.0	0.1	0.2	-0.3	-0.4	-0.8	0.0	-0.2	0.1	0.2	0.2
30% Exceedance	0.0	0.1	0.2	0.2	0.0	-0.5	-0.3	0.6	0.0	0.0	0.3	0.4
40% Exceedance	0.1	-0.5	0.1	0.0	-0.5	-0.6	0.1	0.4	-0.3	0.0	-0.7	0.0
50% Exceedance	0.1	0.2	-0.1	-0.1	-0.1	-0.3	0.2	0.3	0.3	-0.5	-0.4	0.2
60% Exceedance	0.0	-0.2	-0.4	-0.2	-0.1	0.0	0.3	0.7	0.1	-0.1	-0.5	0.0
70% Exceedance	0.0	-0.1	-0.7	-0.1	0.0	-0.1	0.0	0.8	-0.4	-0.3	0.2	0.0
80% Exceedance	0.0	0.1	0.2	0.0	0.0	0.0	0.2	0.1	-0.4	-0.8	0.3	0.0
90% Exceedance	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.2	-0.3	-0.5	1.2	0.1
Full Simulation Period Average[a]	0.1	0.0	0.0	0.0	-0.2	-0.3	-0.1	0.4	-0.1	-0.2	0.1	0.2
Wet Water Years (32%)	0.1	0.0	-0.2	-0.1	0.0	0.0	0.2	0.4	-0.2	-0.1	0.4	0.4
Above Normal Water Years (9%)	0.0	0.0	0.2	0.4	-0.1	-0.1	0.0	0.5	-0.3	-1.2	-0.3	-0.1
Below Normal Water Years (20%)	0.1	0.0	0.0	0.0	-0.1	-0.4	-0.1	0.8	0.0	-0.6	-0.4	0.3
Dry Water Years (21%)	-0.1	0.0	0.1	0.1	-0.1	-0.7	-0.6	0.1	0.0	0.0	0.2	0.2
Critical Water Years (18%)	0.2	0.0	0.1	0.0	-0.6	-0.3	0.0	0.1	0.1	0.1	0.0	0.0

[a] Based on the 100-year simulation period.
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* Water Year Types defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* Water Year Types results are displayed with water year - year type sorting.

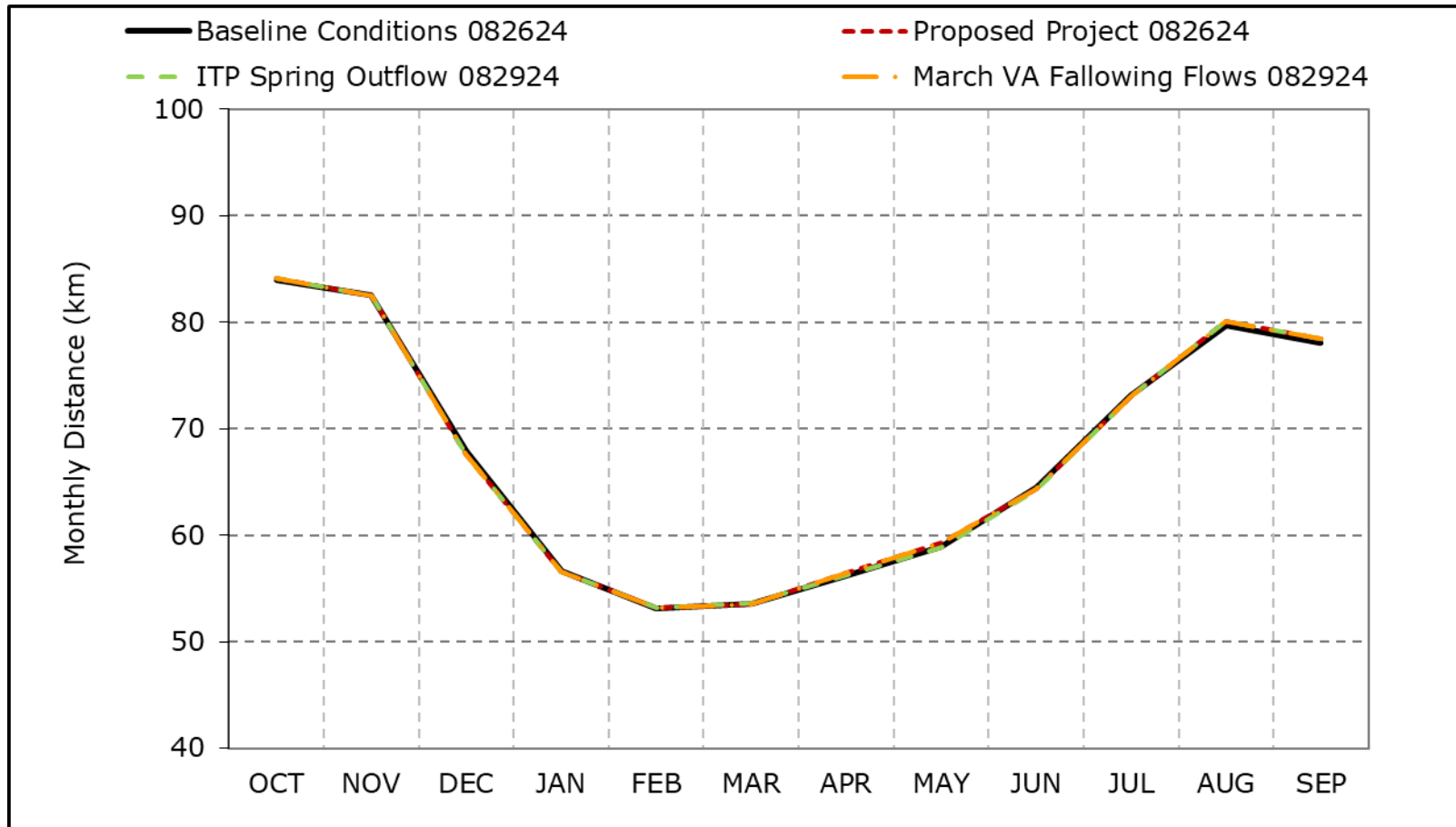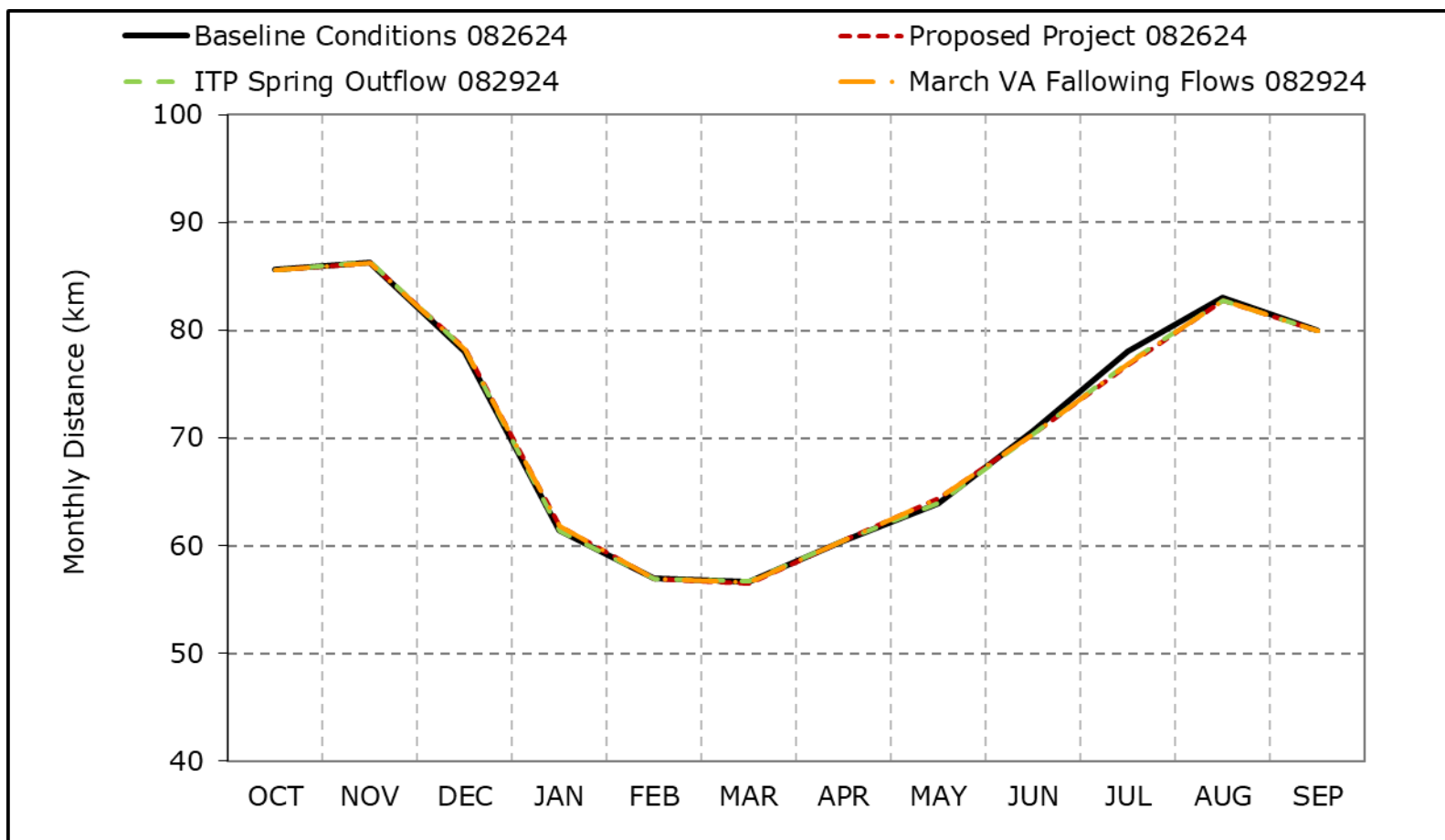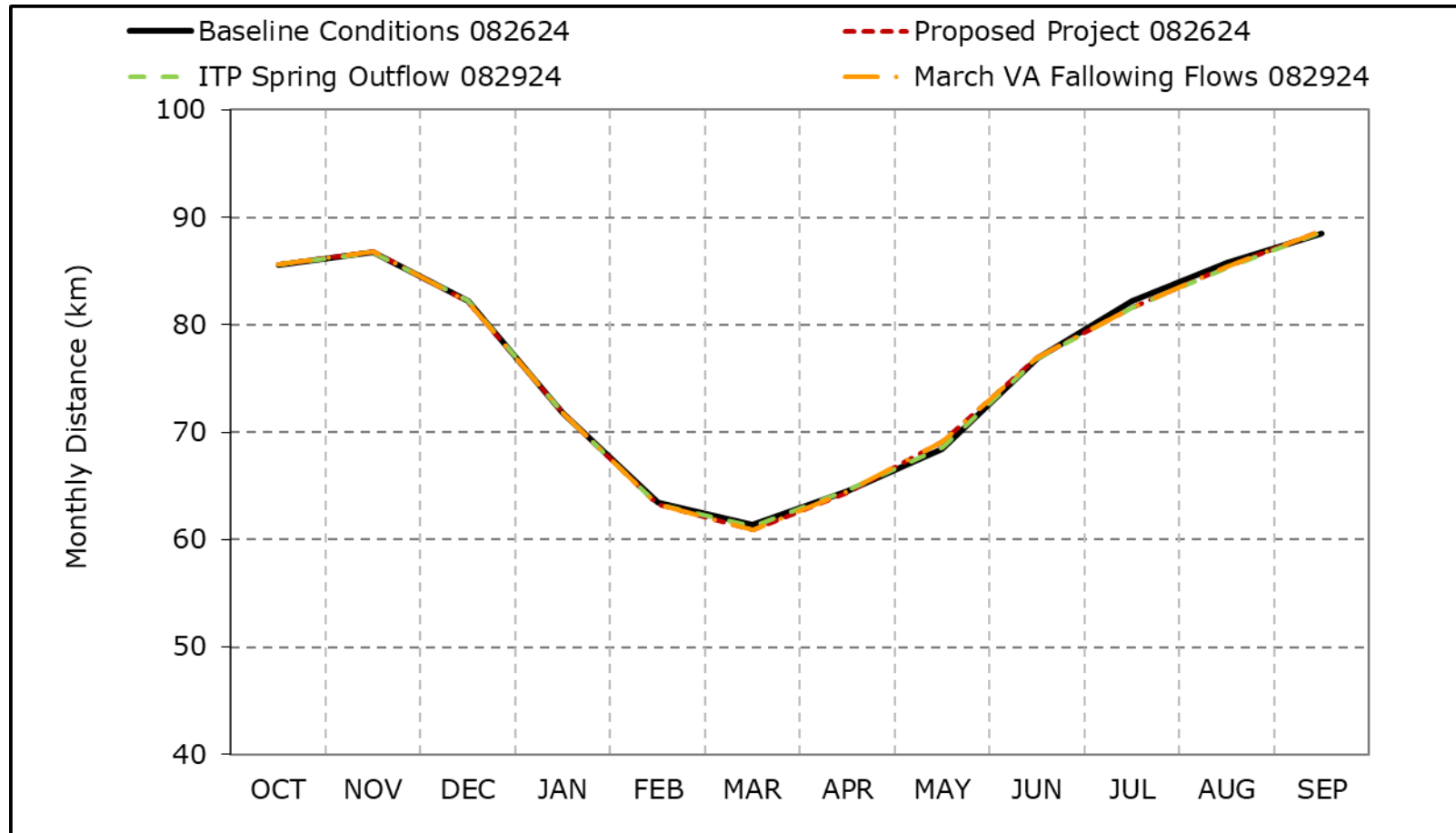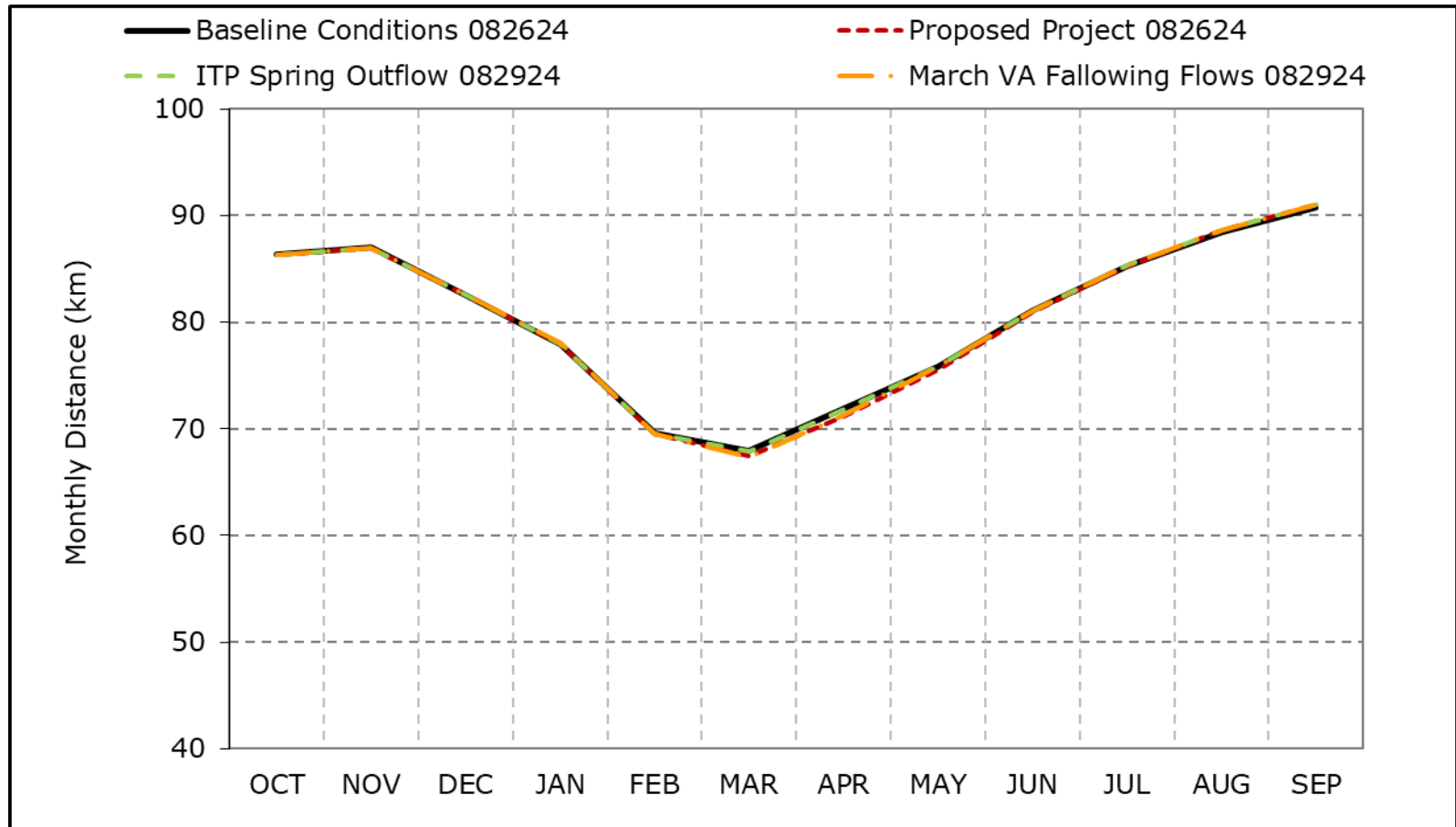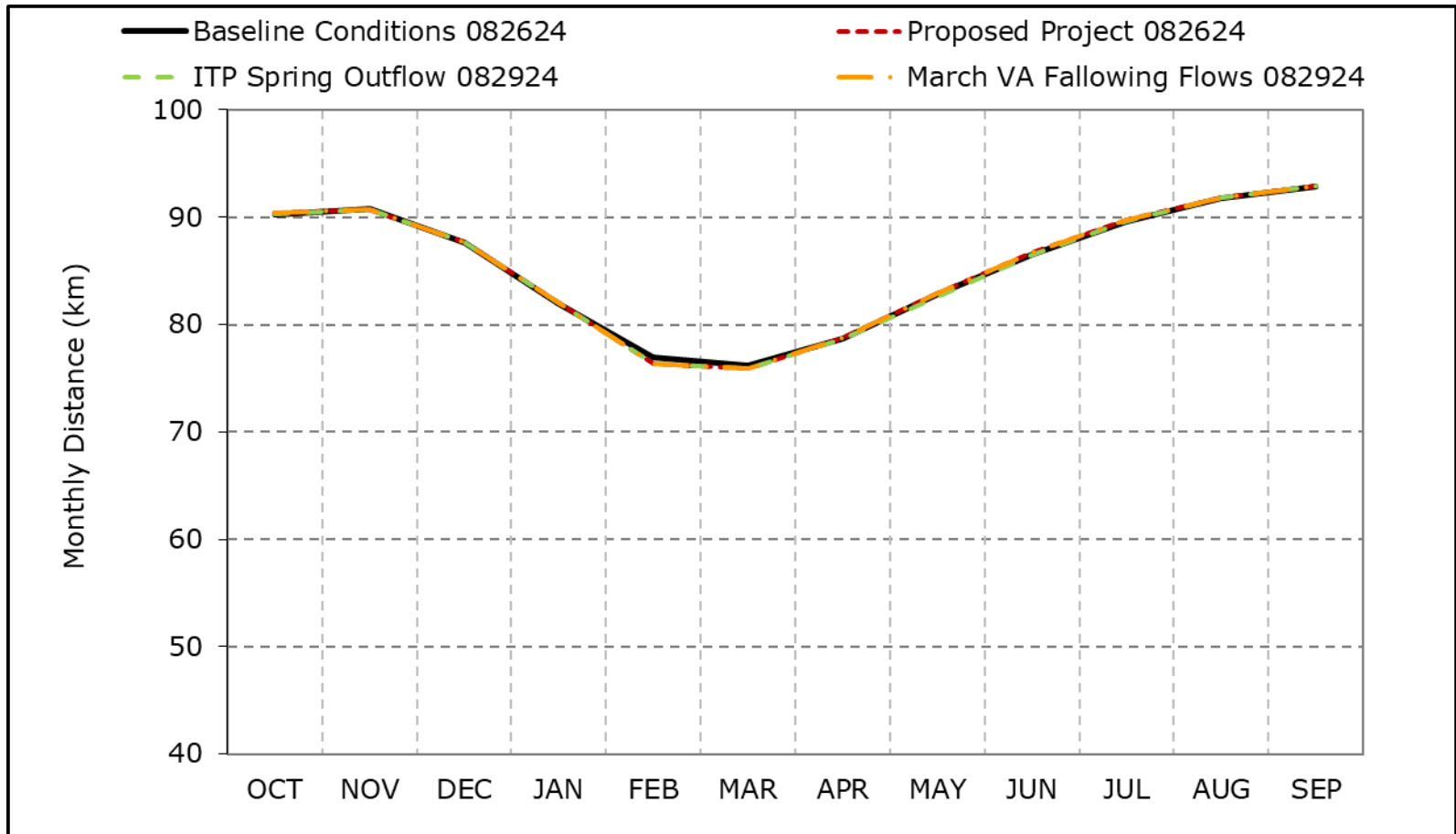# Figure 4K-5-1a. X2 Position, Long-Term Average Distance
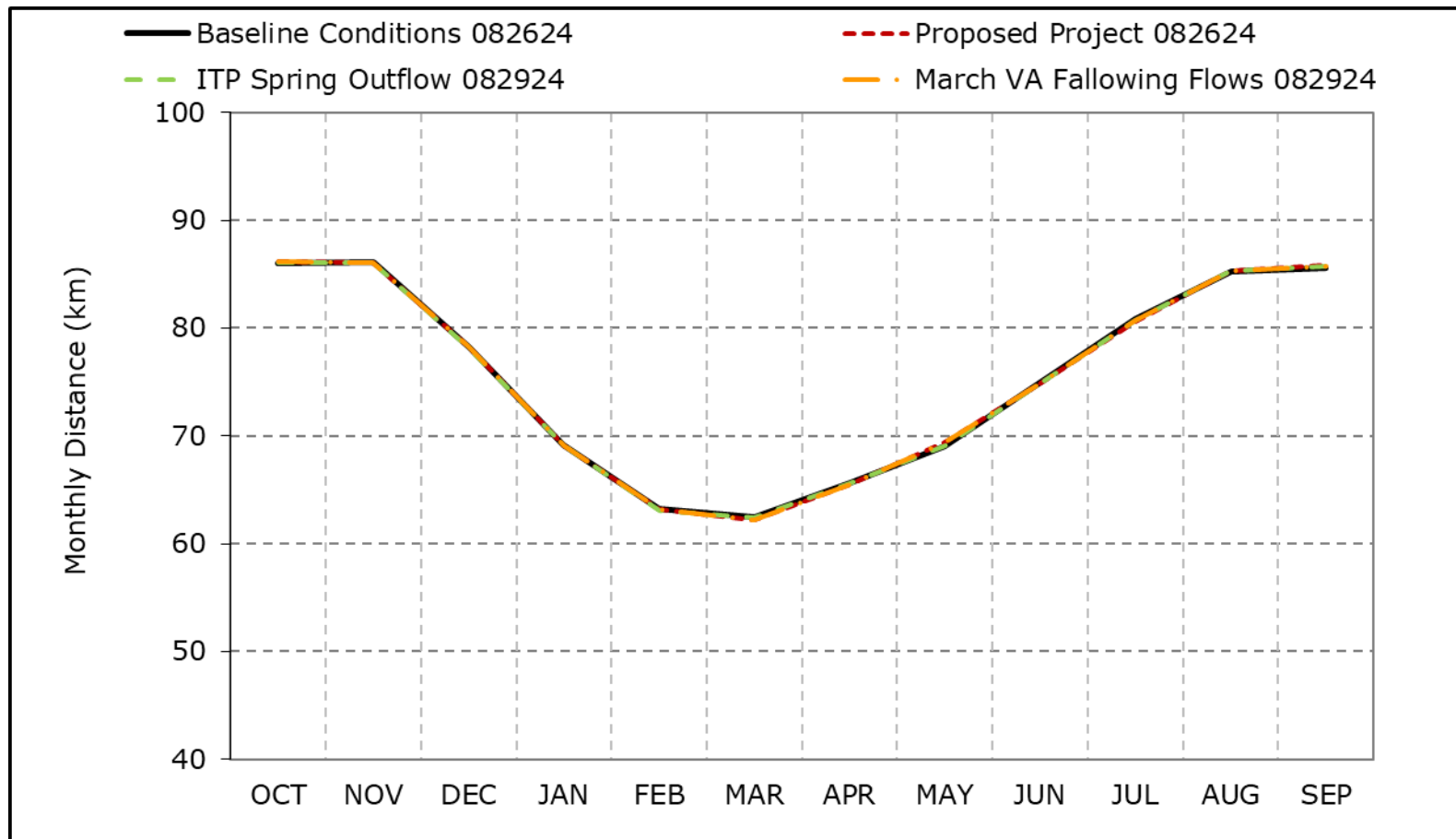
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with water year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1b. X2 Position, Wet Year Average Distance

Legend:
- Baseline Conditions 082624
- Proposed Project 082624
- ITP Spring Outflow 082924
- March VA Fallowing Flows 082924

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
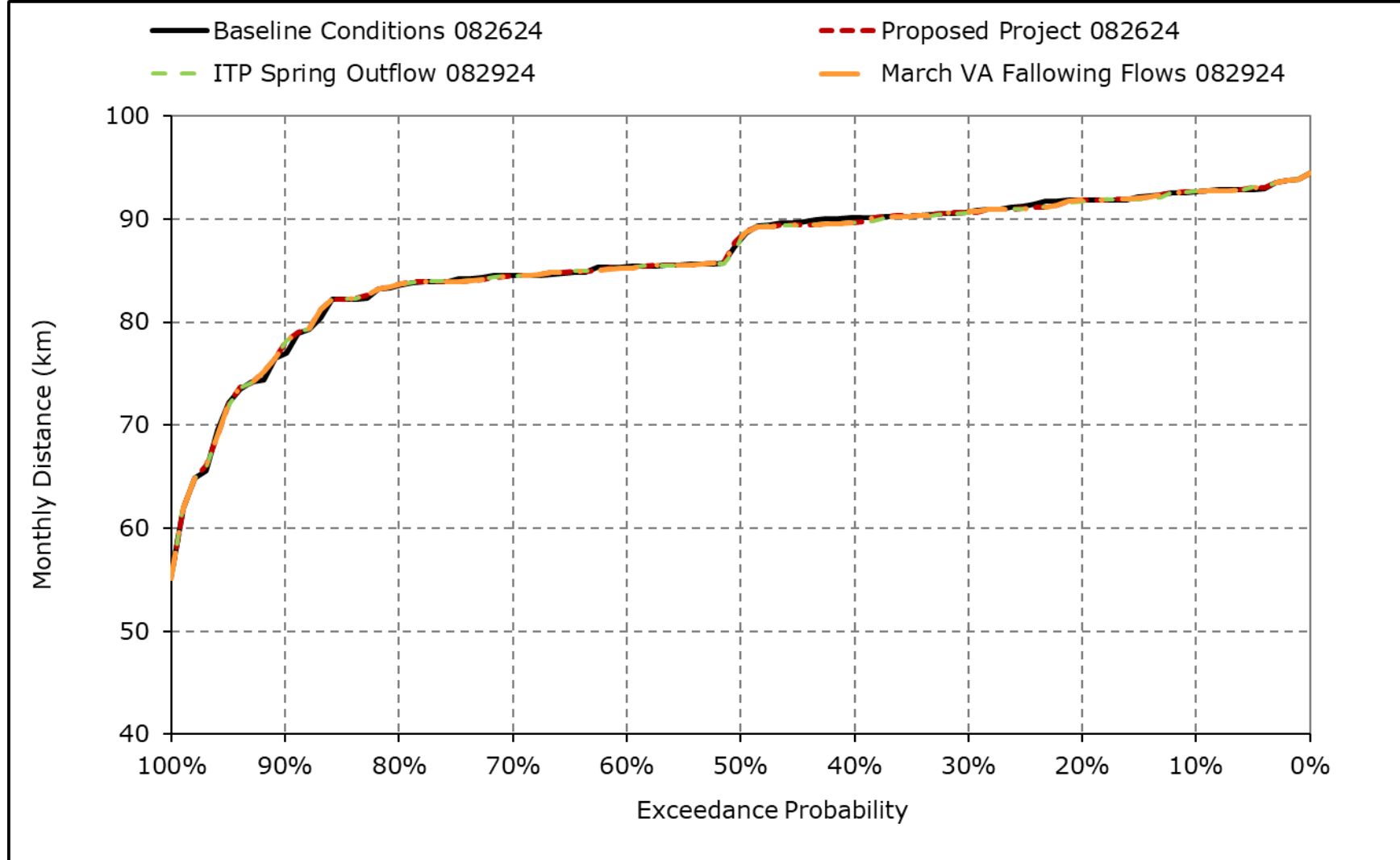*These results are displayed with water year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1c. X2 Position, Above Normal Year Average Distance

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with water year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.
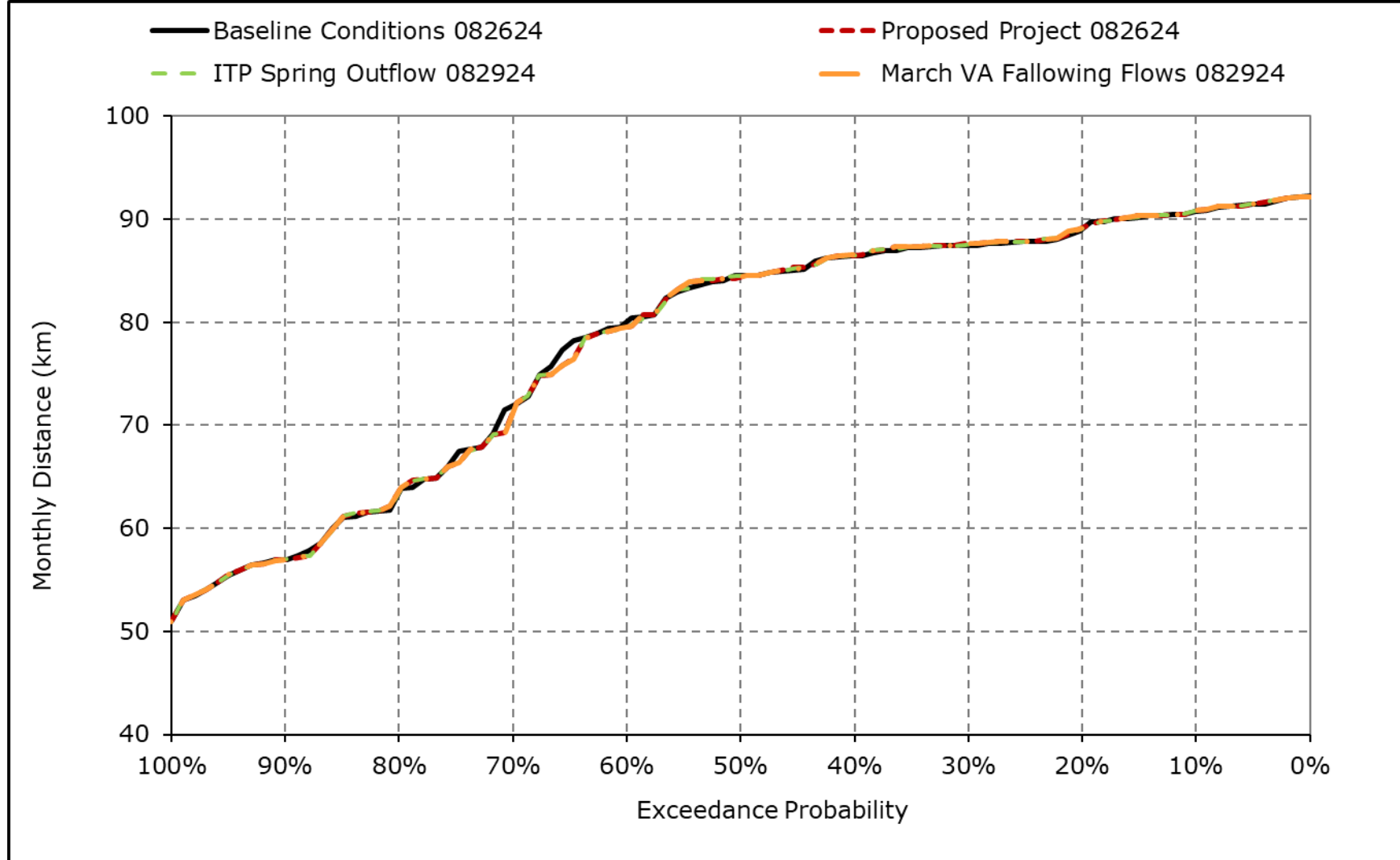
Figure 4K-5-1d. X2 Position, Below Normal Year Average Distance

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with water year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1e. X2 Position, Dry Year Average Distance

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with water year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1f. X2 Position, Critical Year Average Distance

*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with water year - year type sorting.
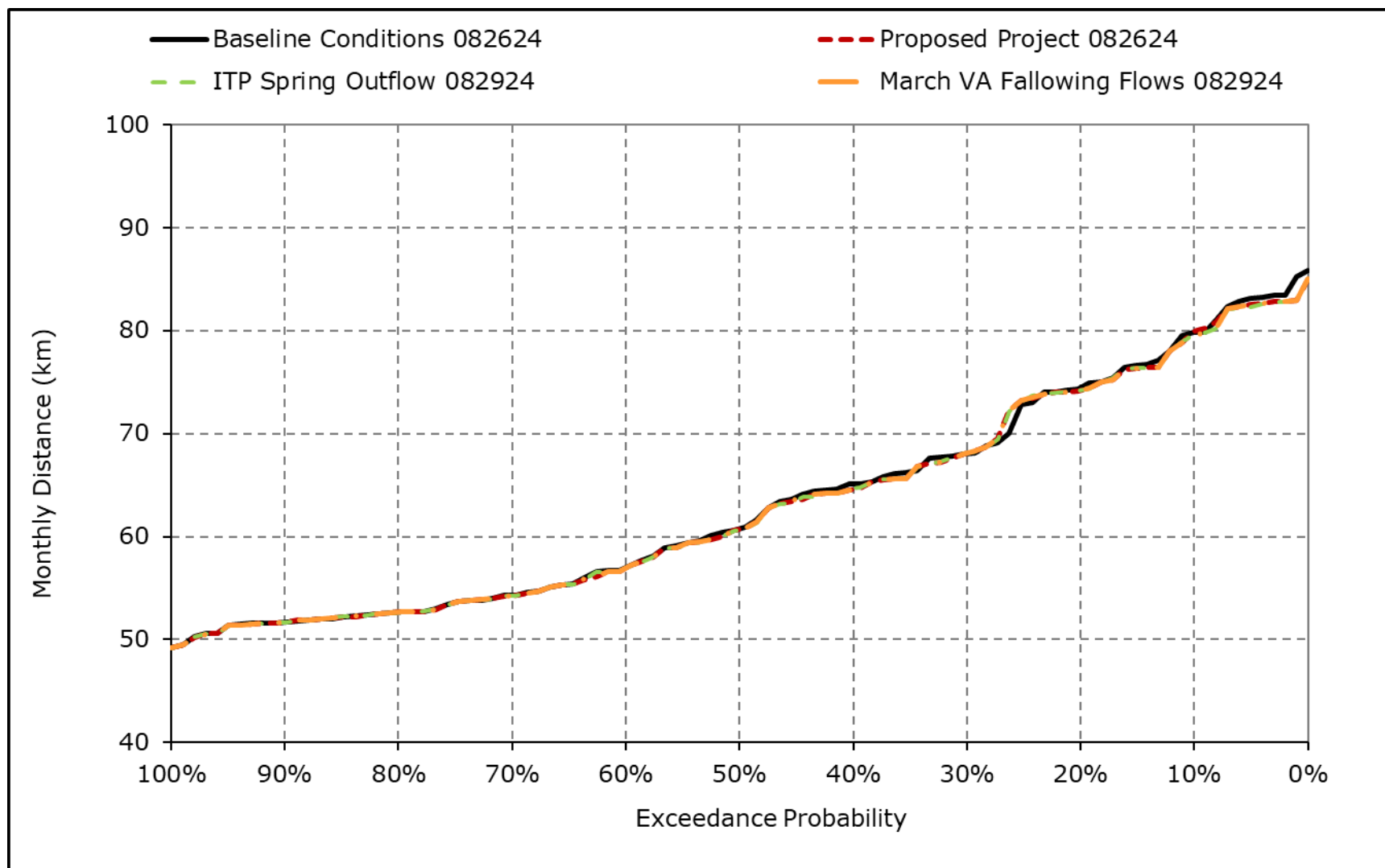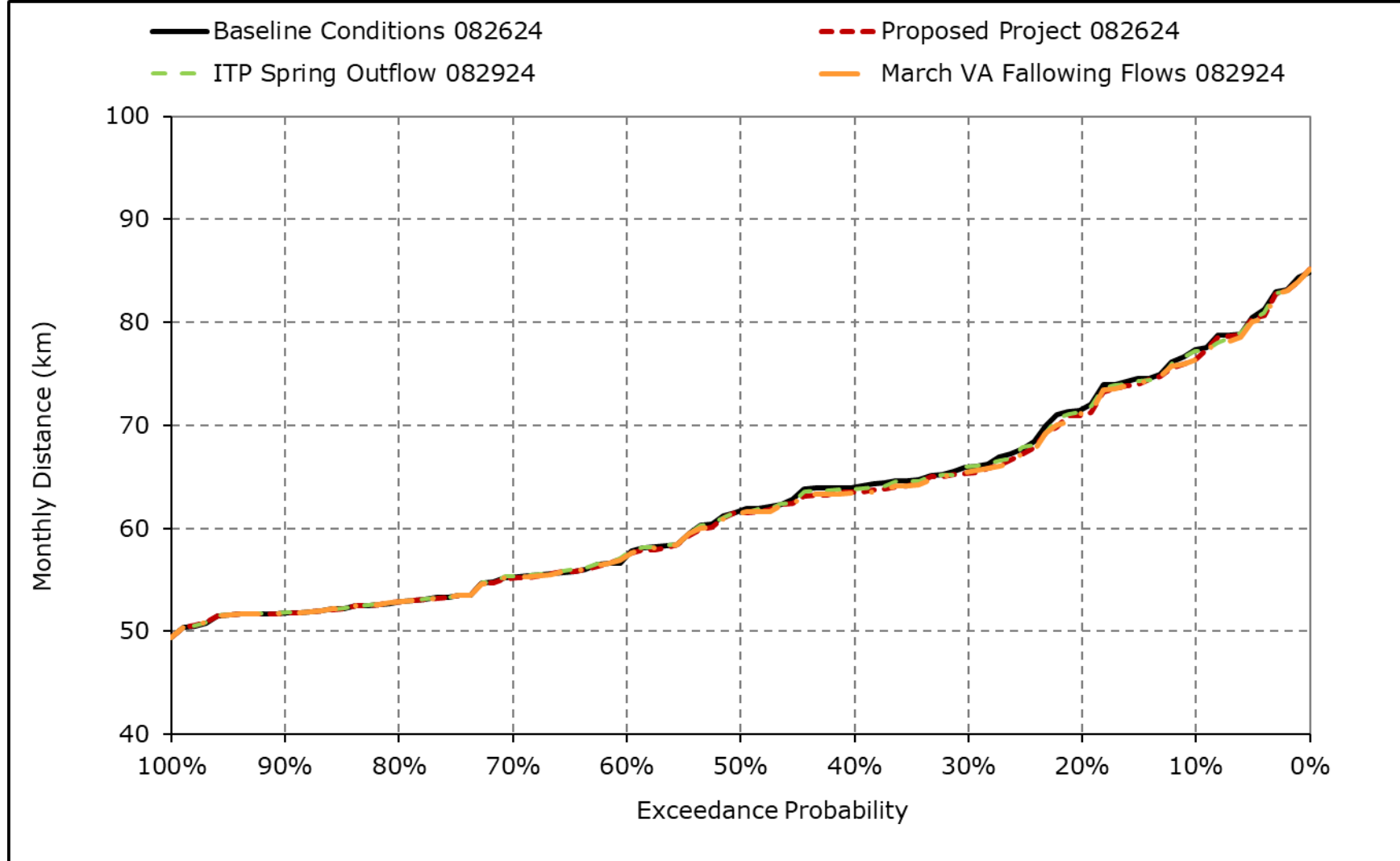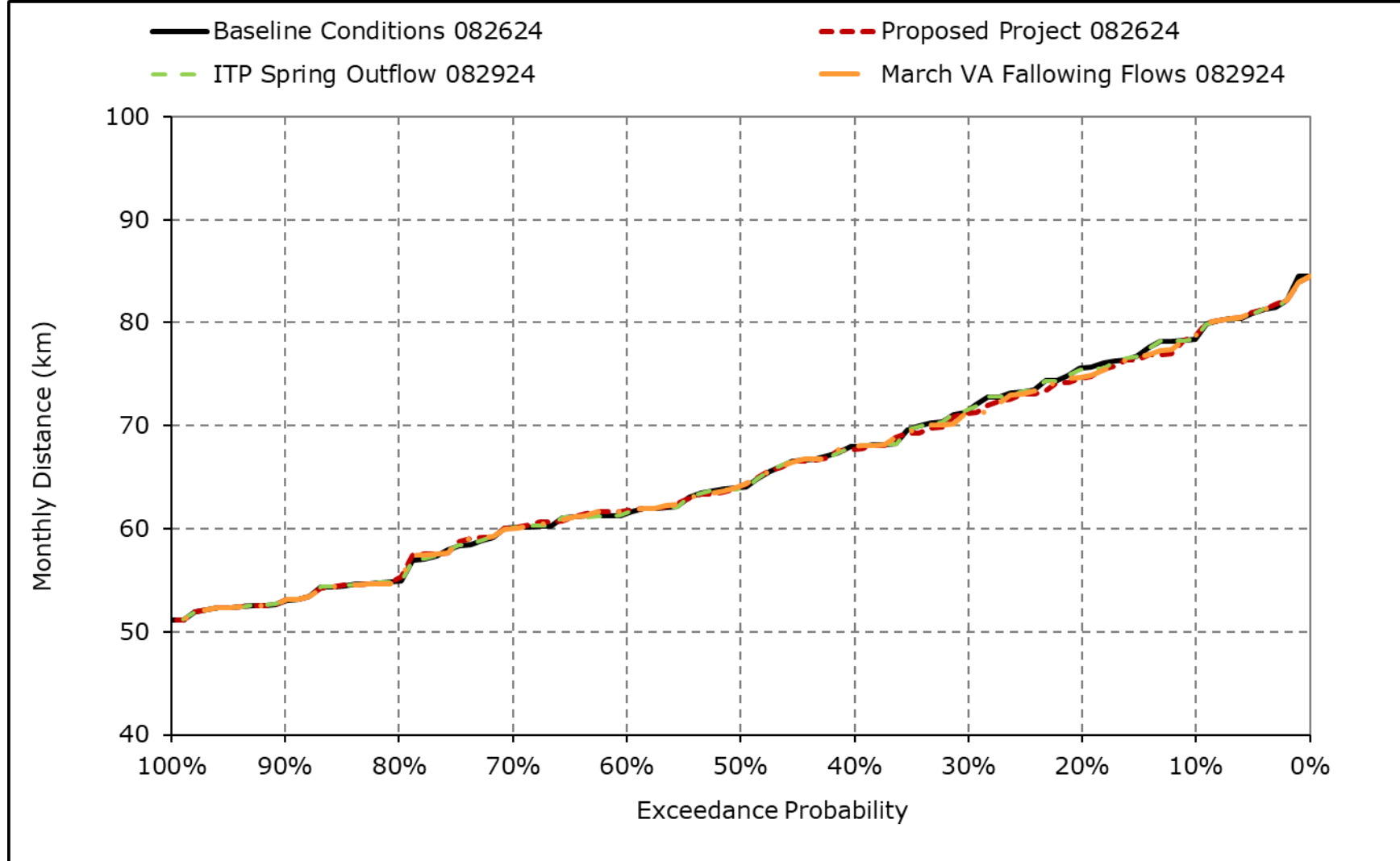*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1g. X2 Position, October
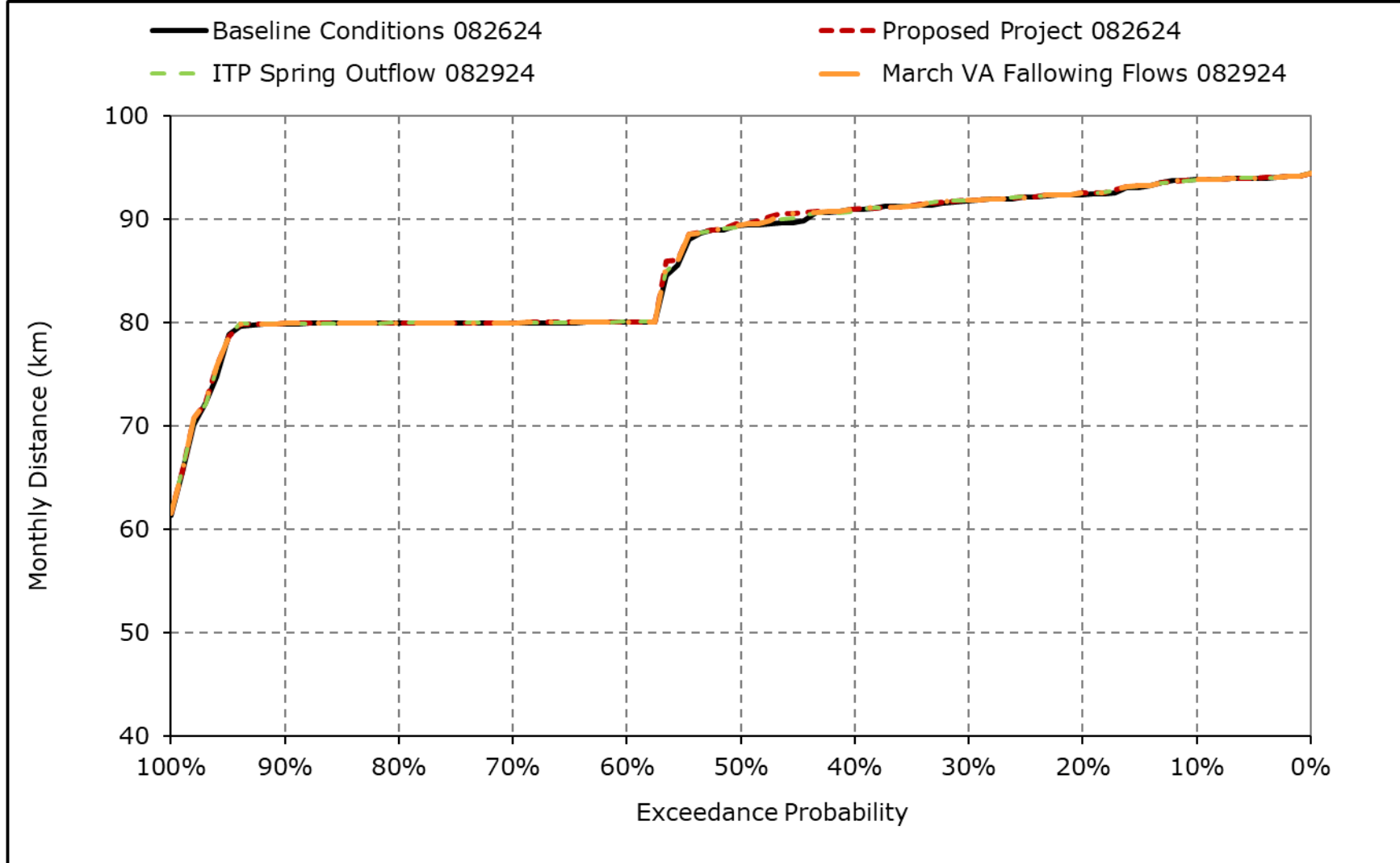
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1h. X2 Position, November

Legend: Baseline Conditions 082624; Proposed Project 082624; ITP Spring Outflow 082924; March VA Fallowing Flows 082924

X-axis: Exceedance Probability

Y-axis: Monthly Distance (km)

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1i. X2 Position, December

Legend:
- Baseline Conditions 082624
- Proposed Project 082624
- ITP Spring Outflow 082924
- March VA Fallowing Flows 082924

Y-axis: Monthly Distance (km)
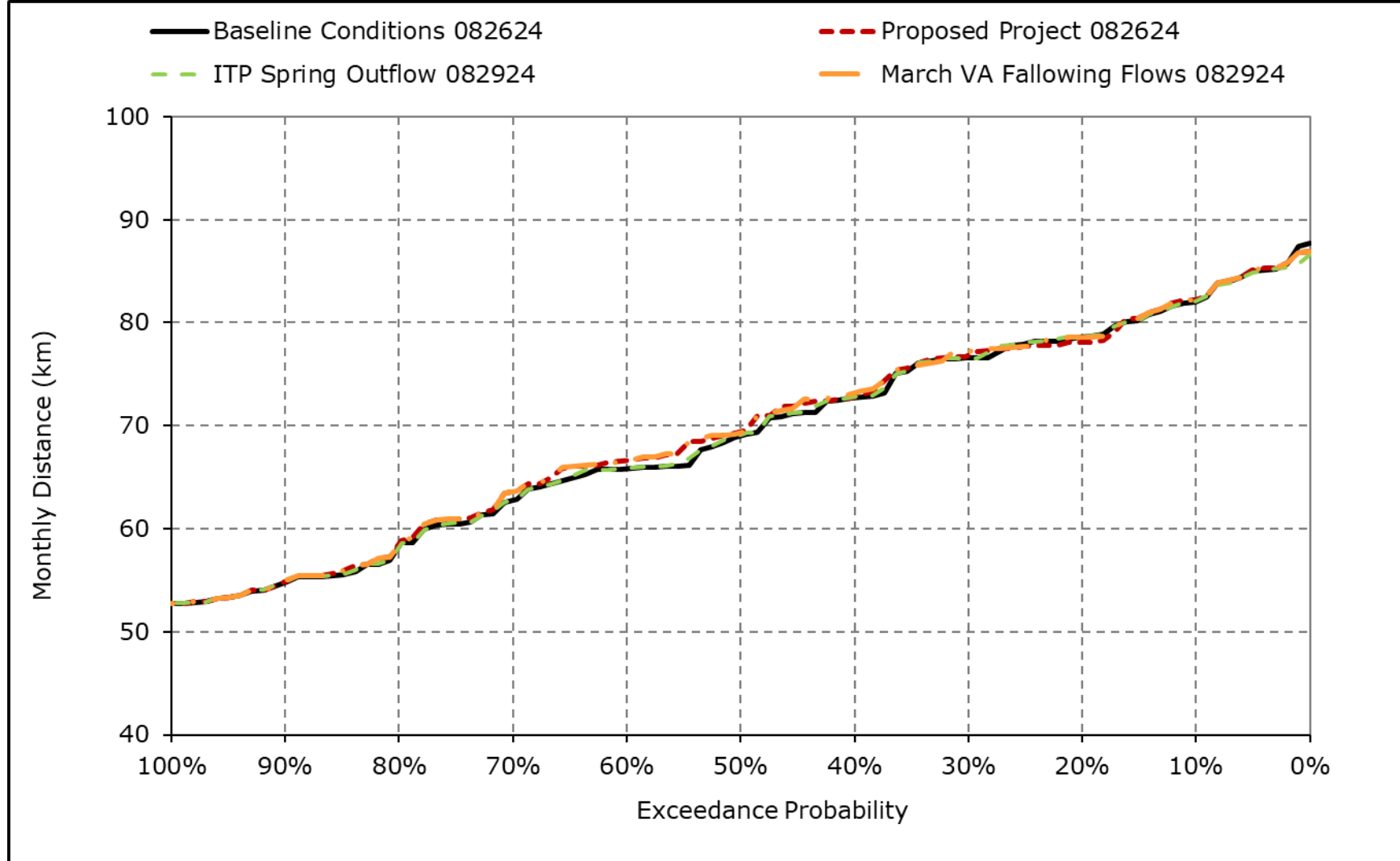
X-axis: Exceedance Probability

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1j. X2 Position, January
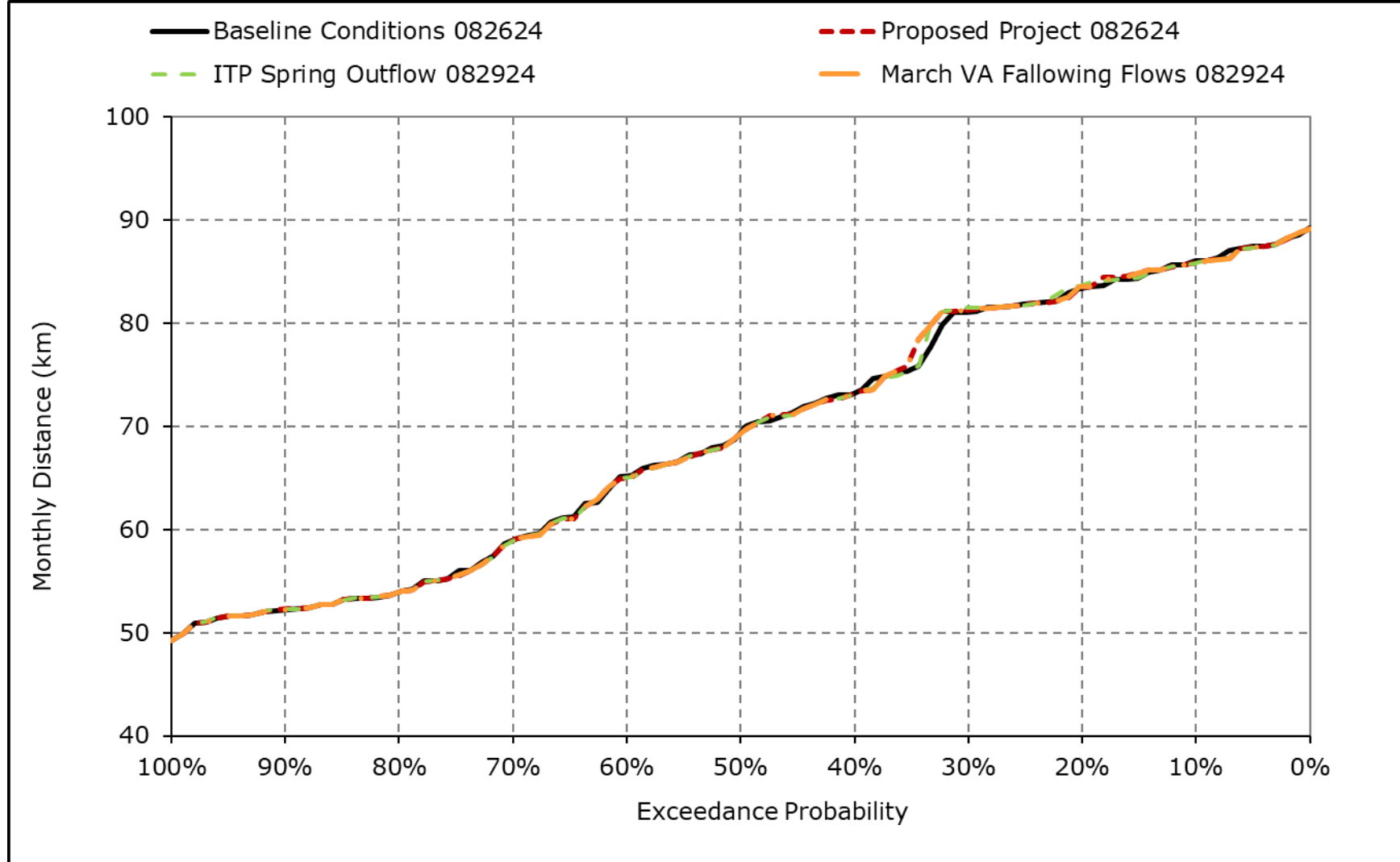
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1k. X2 Position, February

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1l. X2 Position, March

*All scenarios are simulated at current climate condition and 0 cm sea level rise.
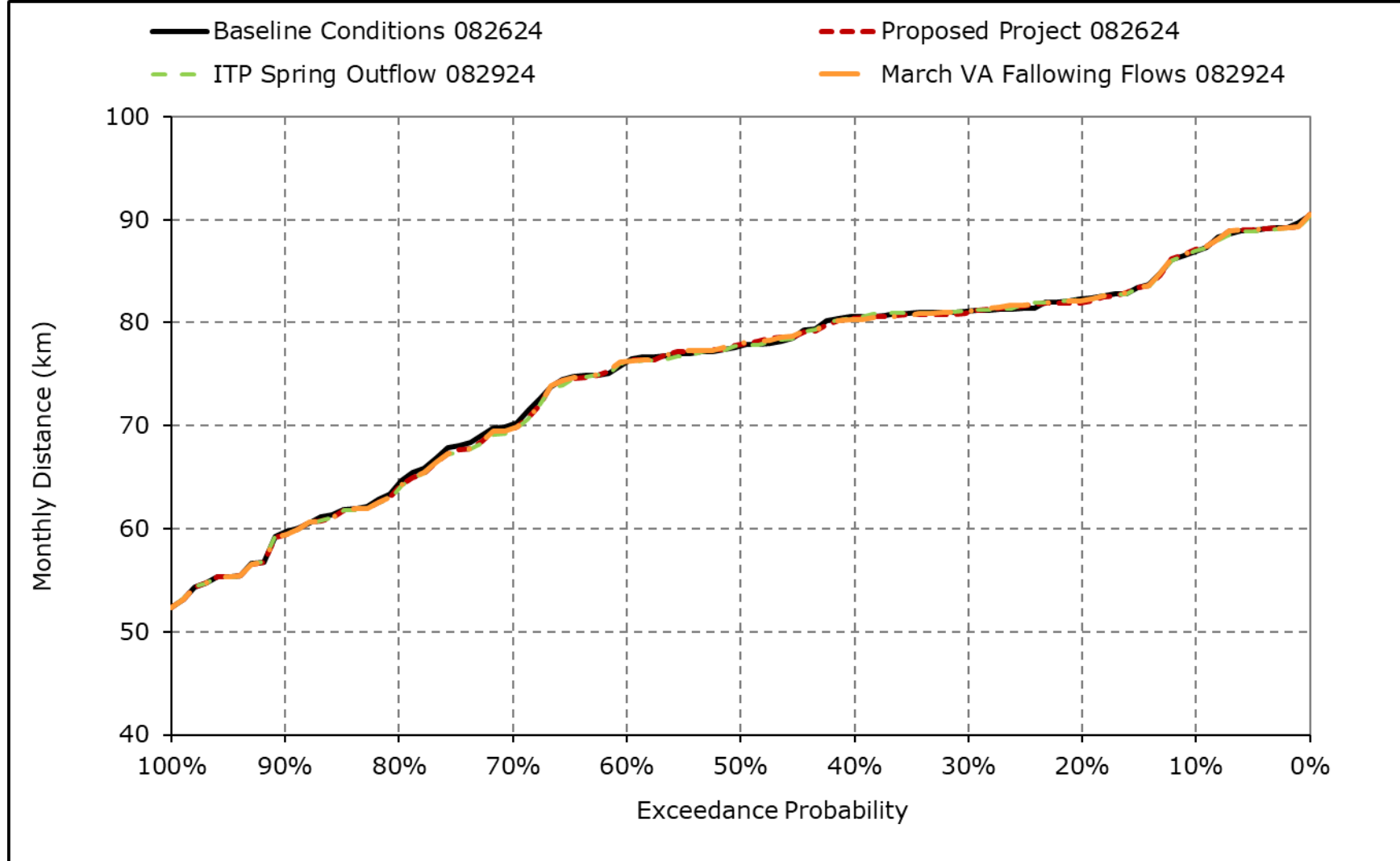
Figure 4K-5-1m. X2 Position, April

*All scenarios are simulated at current climate condition and 0 cm sea level rise.
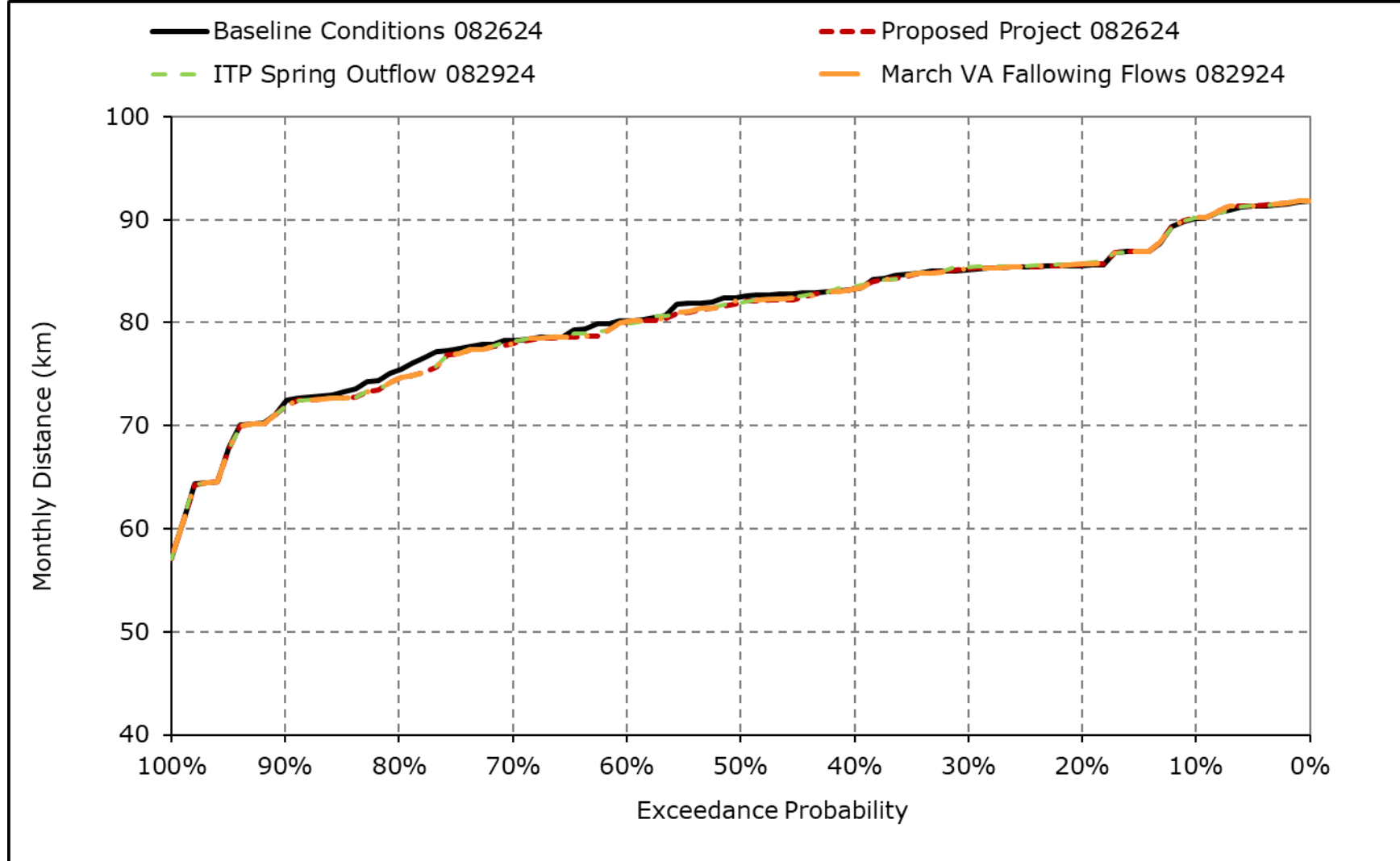
Figure 4K-5-1n. X2 Position, May

*All scenarios are simulated at current climate condition and 0 cm sea level rise.
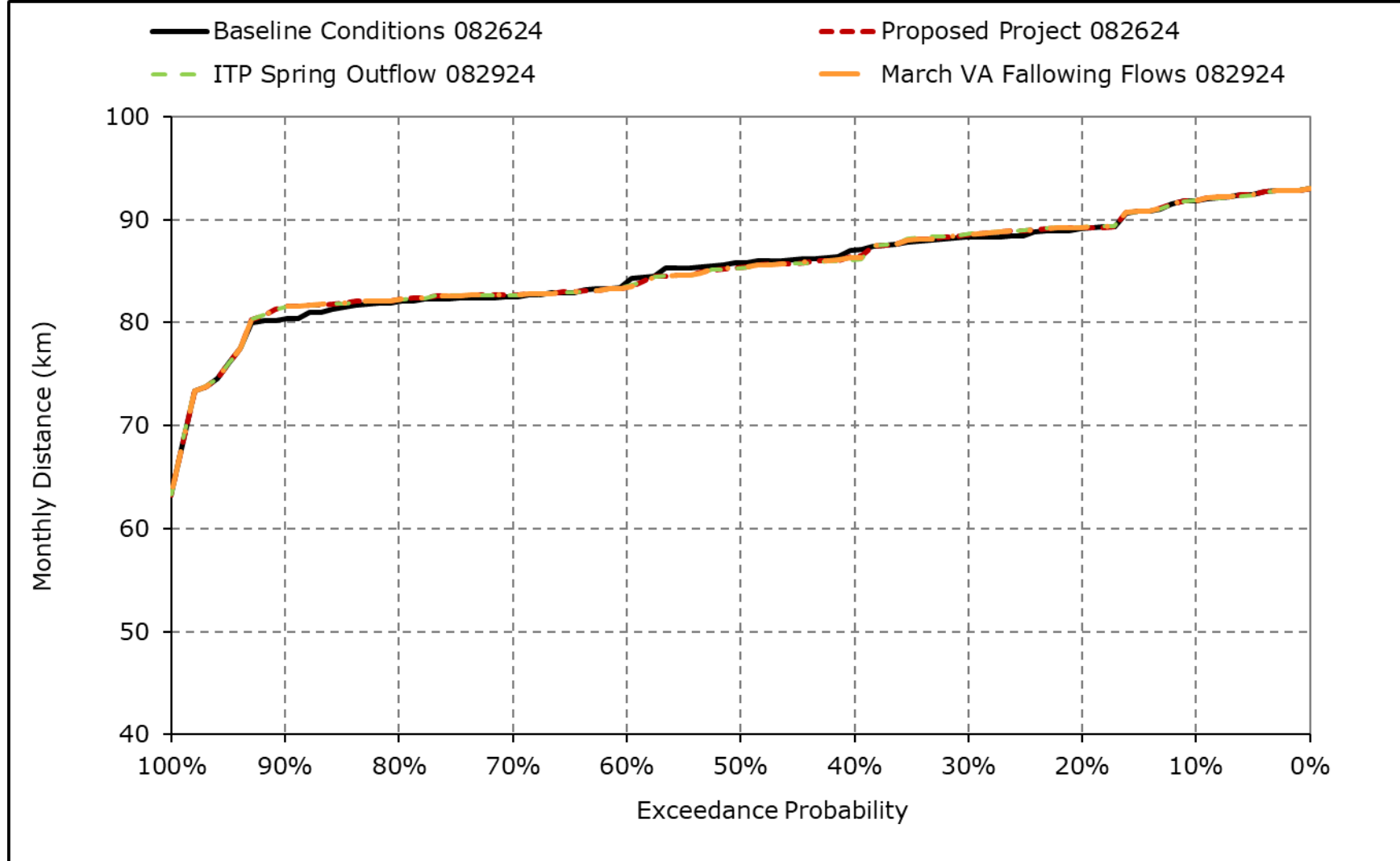
Figure 4K-5-1o. X2 Position, June

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1p. X2 Position, July

Legend:
- Baseline Conditions 082624
- Proposed Project 082624
- ITP Spring Outflow 082924
- March VA Fallowing Flows 082924

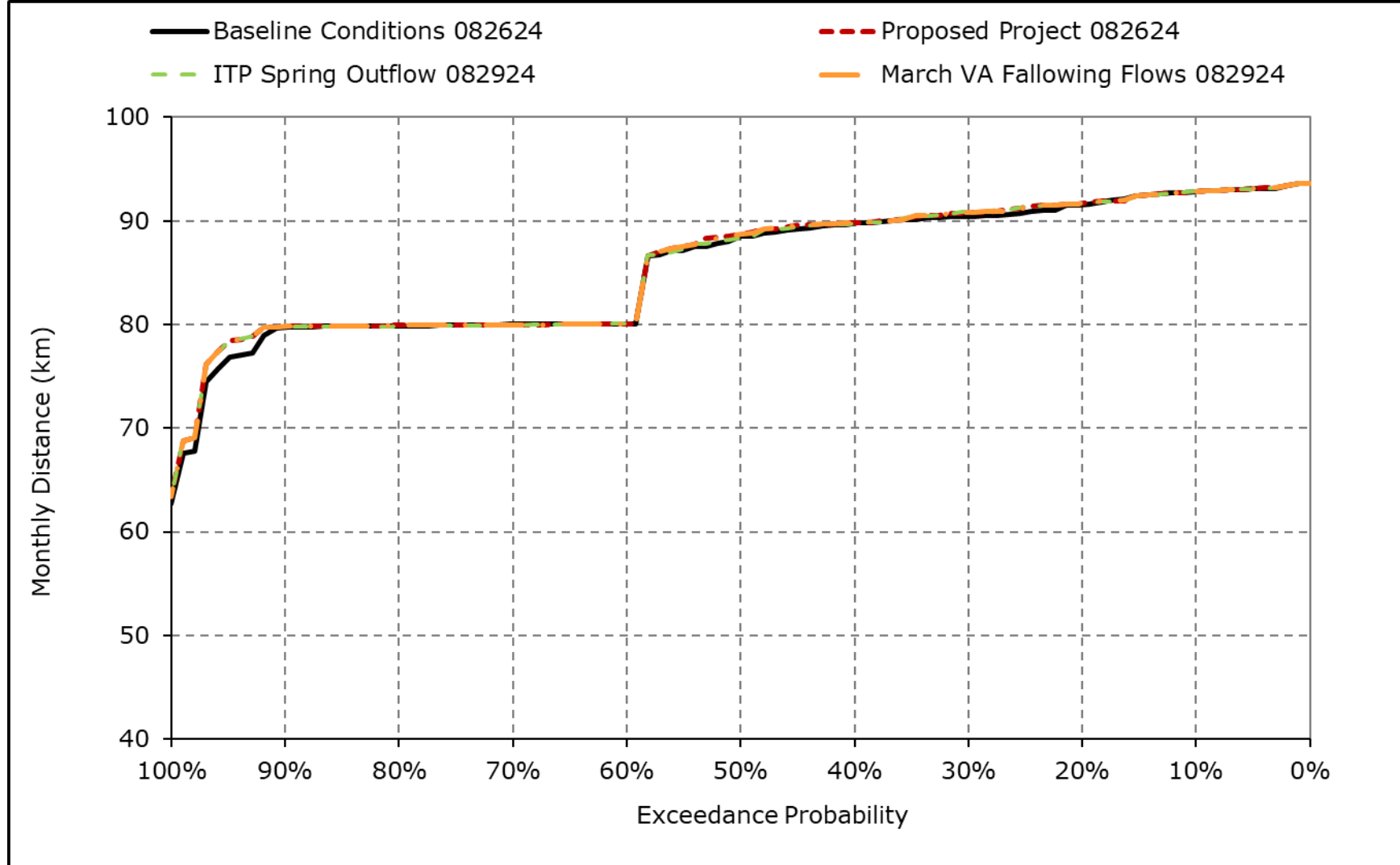Y-axis: Monthly Distance (km)

X-axis: Exceedance Probability

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1q. X2 Position, August

*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 4K-5-1r. X2 Position, September

Legend:
- Baseline Conditions 082624
- Proposed Project 082624
- ITP Spring Outflow 082924
- March VA Fallowing Flows 082924

Y-axis: Monthly Distance (km)

X-axis: Exceedance Probability

*All scenarios are simulated at current climate condition and 0 cm sea level rise.