Department of Public Works & Transportation • Water & Wastewater Services
WATER & WASTEWATER ENGINEERING DIVISION

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WWS STANDARD LIFT STATION PUMPS

Date Issued: October 16, 2024
Date last Issued: October 14, 2021
Date First Issued: January 3, 2006

This document approved by the Broward County Water & Wastewater Services Technical Standards Committee.

Water and Wastewater Services (WWS) uses a suite of standard pumps for its wastewater lift stations. See *Product Specifications* for detailed requirements for these pumps.

The Acceptable Operating Range is 40% to 120% of the flow at the best operating point.

The impeller shown is the only impeller allowed. For curves 14 through 18 only, the impeller may be trimmed to meet specific design considerations. All other impellers must be supplied untrimmed.

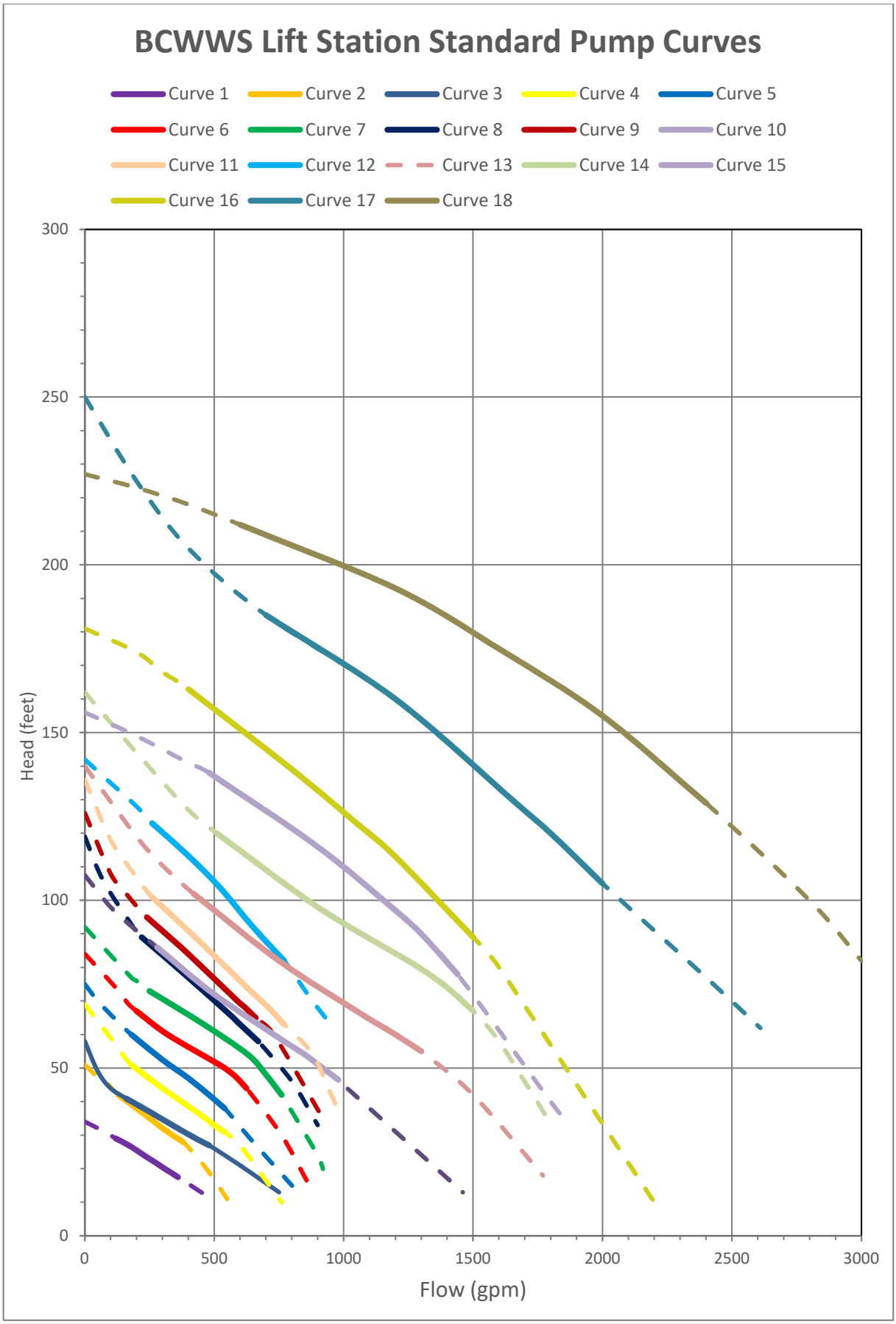
BCWWS Standard Lift Station Pump Curves

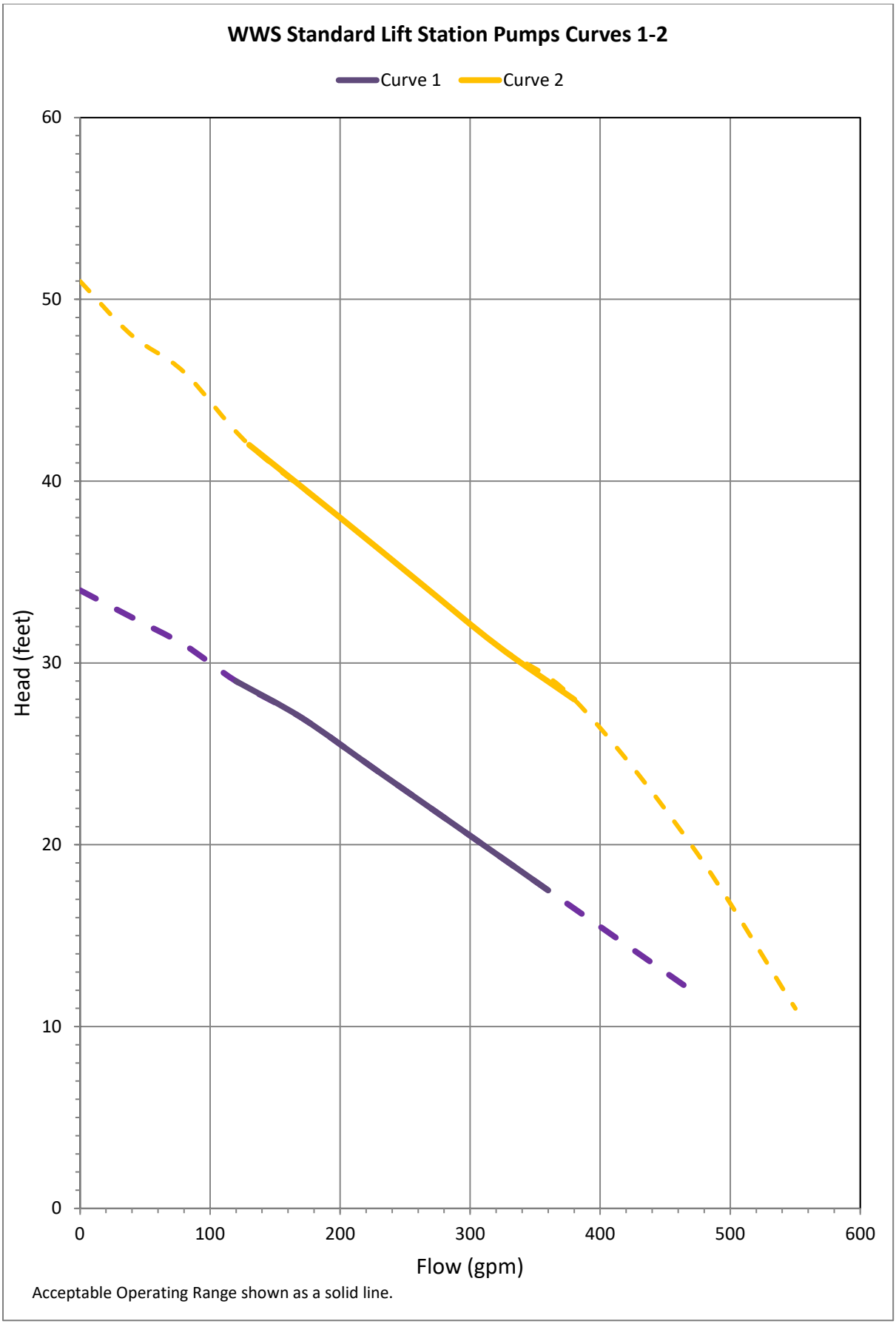
		Dead Head Point	Left Most Operating Point	BEP Point	Right Most Operating Point	Discharge Diameter	Guide Rail
Curve 1	Head (ft)	34	29	24	17.5	4''	2''
	Flow (gpm)	0	120	230	360		
Curve 2	Head (ft)	51	42	34.5	28	4''	2''
	Flow (gpm)	0	130	260	380		
Curve 3	Head (ft)	58	41	30	27	4''	2''
	Flow (gpm)	0	160	406	480		
Curve 4	Head (ft)	69	51	36	31	4''	2''
	Flow (gpm)	0	180	450	540		
Curve 5	Head (ft)	75	60	47	38	4''	2''
	Flow (gpm)	0	180	400	540		
Curve 6	Head (ft)	84	67	51	44	4''	2''
	Flow (gpm)	0	200	520	625		
Curve 7	Head (ft)	92	73	54	42	4''	2''
	Flow (gpm)	0	250	630	760		
Curve 8	Head (ft)	119	89	66	58	4''	2''
	Flow (gpm)	0	220	560	670		
Curve 9	Head (ft)	126	95	70	65	4''	2''
	Flow (gpm)	0	240	590	660		
Curve 10	Head (ft)	107.5	86	57.5	46.5	6''	2''
	Flow (gpm)	0	280	780	980		
Curve 11	Head (ft)	136	101	73	63	4''	2''
	Flow (gpm)	0	260	640	770		
Curve 12	Head (ft)	142	123	104	82	4''	3''
	Flow (gpm)	0	260	520	770		
Curve 13	Head (ft)	140	102	67	55	6''	3''
	Flow (gpm)	0	420	1050	1300		
Curve 14	Head (ft)	162	120	81	67	6''	3''
	Flow (gpm)	0	510	1270	1500		
Curve 15	Head (ft)	156	138	97	78	6''	3''
	Flow (gpm)	0	480	1200	1440		
Curve 16	Head (ft)	181	163	123	89	6''	3''
	Flow (gpm)	0	400	1050	1500		
Curve 17	Head (ft)	250	185	130	105	6''	3''
	Flow (gpm)	0	700	1650	2000		
Curve 18	Head (ft)	227	212	175	129	6''	3''
	Flow (gpm)	0	600	1600	2400		

- BEP: Best Efficiency Point

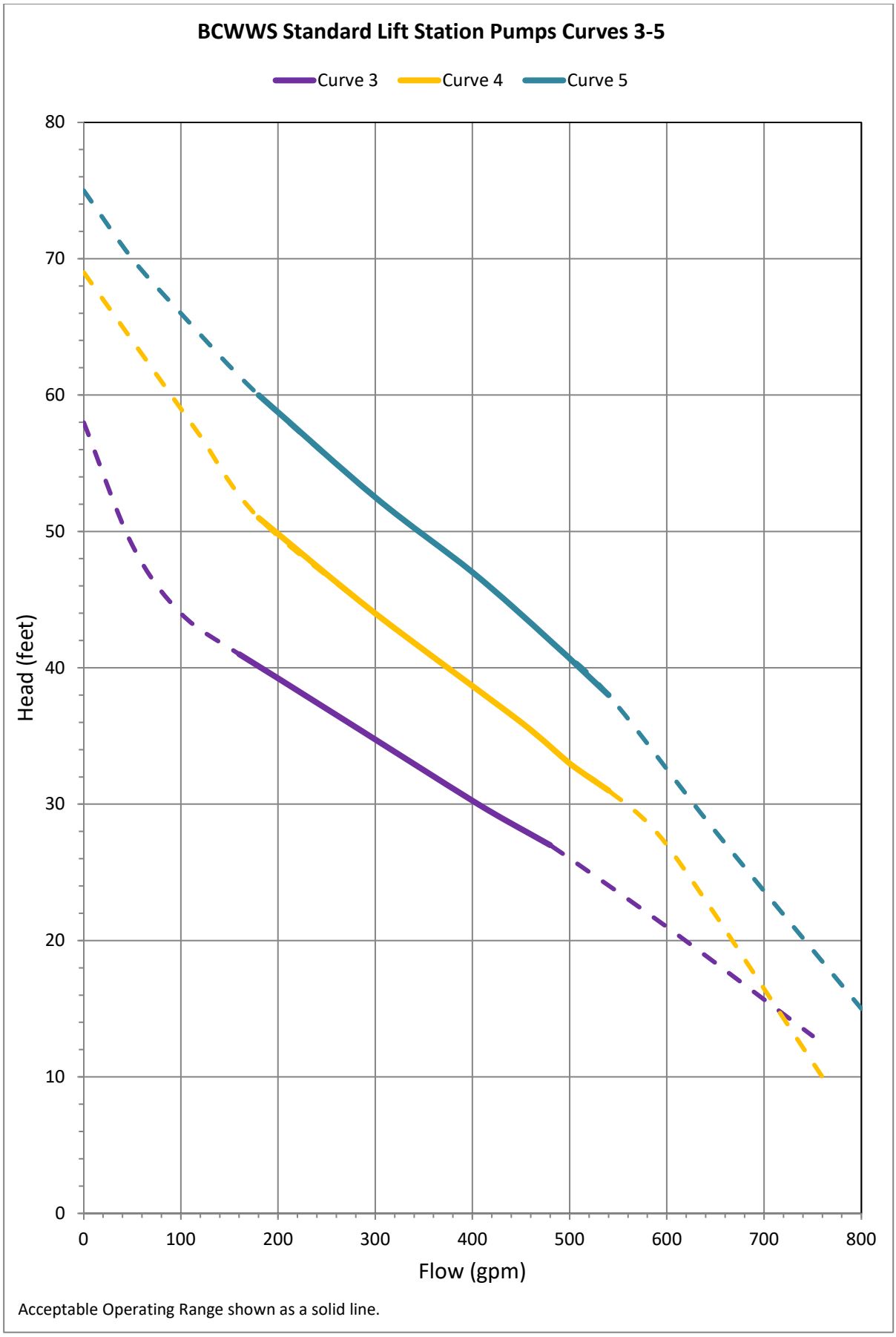
- Left Most Operating Point = 40% BEP; Right Most Operating Point = 120% BEP

- Pump RPM Range to be between 1700 and 1800 RPM

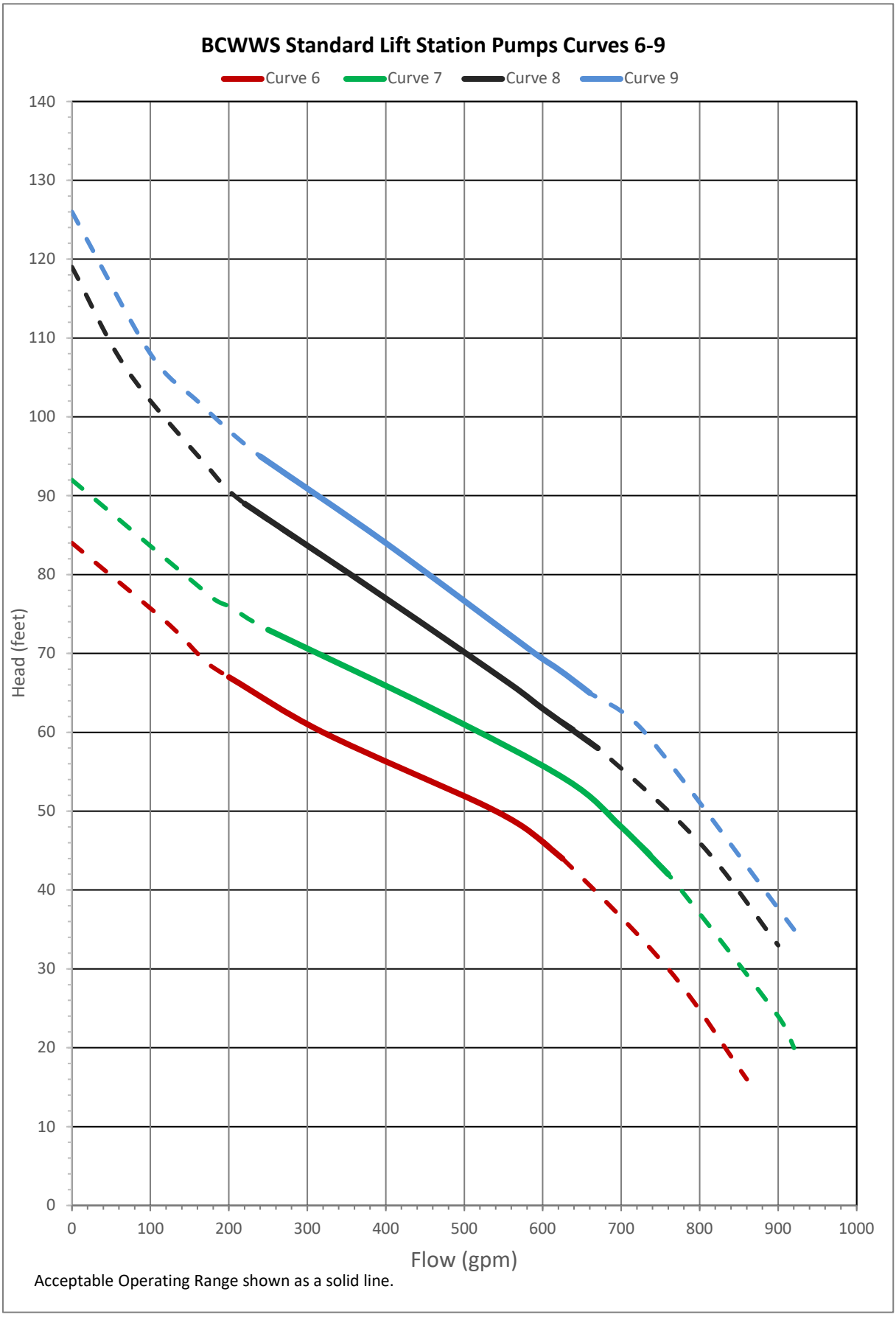

BCWWS Lift Station Standard Pump Curves
Curve 1
Curve 2
Curve 3
Curve 4
Curve 5
Curve 6
Curve 7
Curve 8
Curve 9
Curve 10
Curve 11
Curve 12
Curve 13
Curve 14
Curve 15
Curve 16
Curve 17
Curve 18
300
250
200
150
100
50
0
Head (feet)
0
500
1000
1500
2000
2500
3000
Flow (gpm)



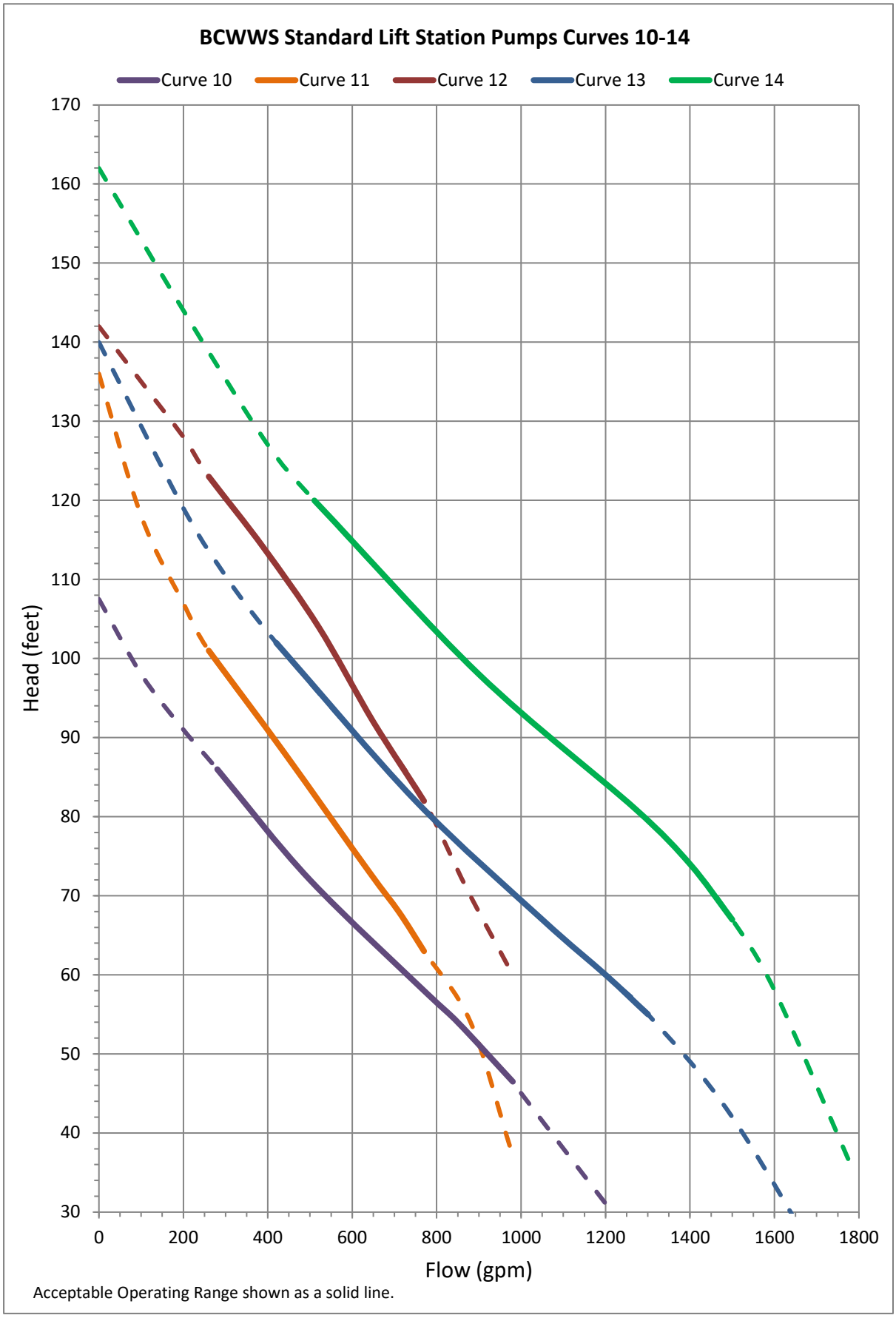
Acceptable Operating Range shown as a solid line.



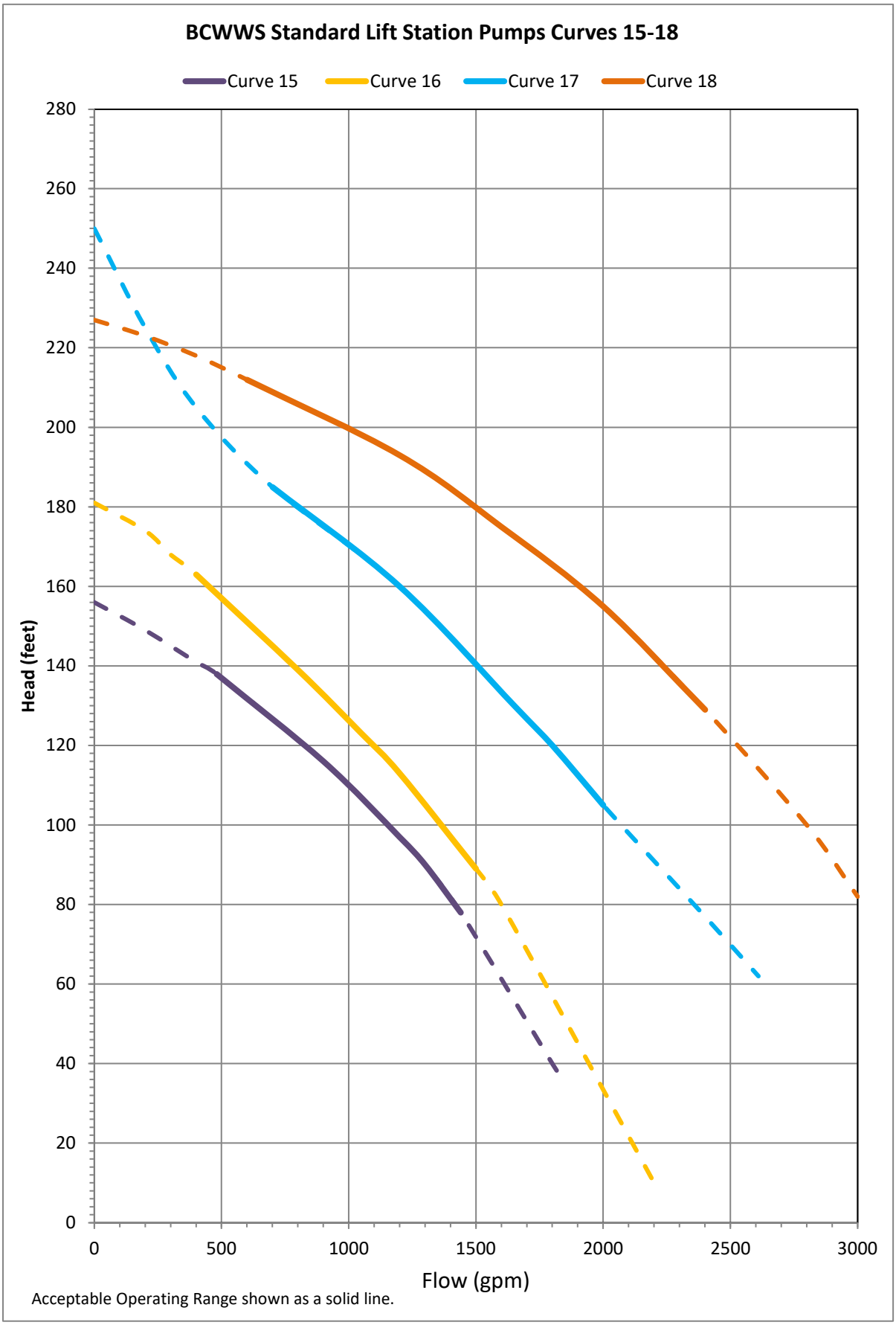
Acceptable Operating Range shown as a solid line.



Acceptable Operating Range shown as a solid line.



Acceptable Operating Range shown as a solid line.


BCWWS Standard Lift Station Pumps Curves 15-18
Curve 15
Curve 16
Curve 17
Curve 18
Head (feet)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
0
500
1000
1500
2000
2500
3000
Flow (gpm)
Acceptable Operating Range shown as a solid line.