

Edl, Michele

From: Edl, Michele
Sent: Tuesday, March 06, 2012 3:12 PM
To: 'rod.babcock@nli.coop'
Subject: irrigation place of use

Mr. Babcock,

This afternoon, I created a FAX and sent it your way. So far, I have not been able to send it successfully.

The IDWR examiner recommended irrigation but did not provide a map showing the areas he found. I have reviewed aerial photography and created shapes around your headquarters buildings of areas that appear to have been irrigated. Would you please review the attached jpg file and assist me in correcting the shapes. Thank you.

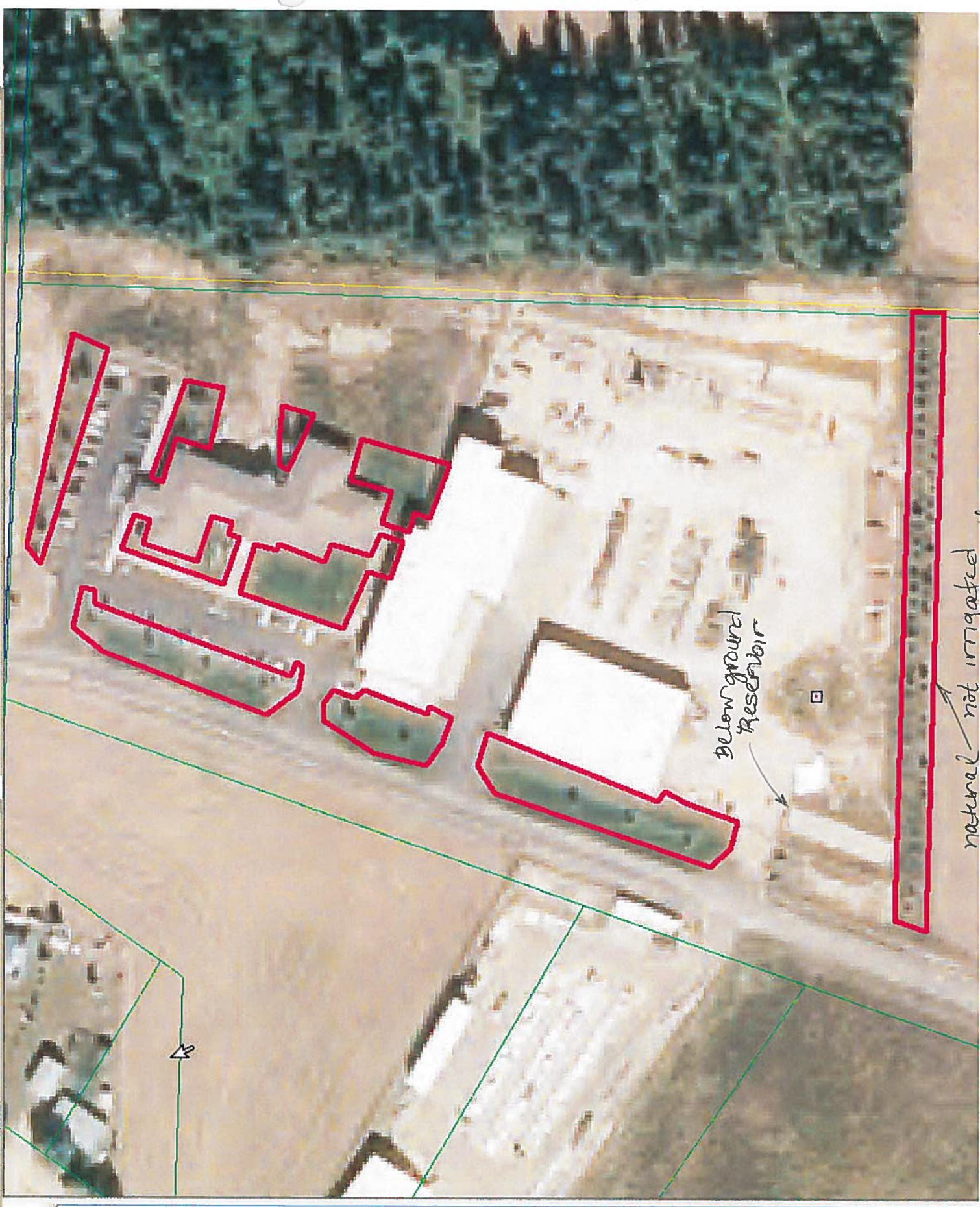
Michele Edl



96-9012
irrigation.jpg



Process > POU > POD > Wells > SC > WMIS > Dam Safety > UIC > WRA > WSB > WSD



Below ground
Reservoir

natural not irrigated

with a channel or ditch

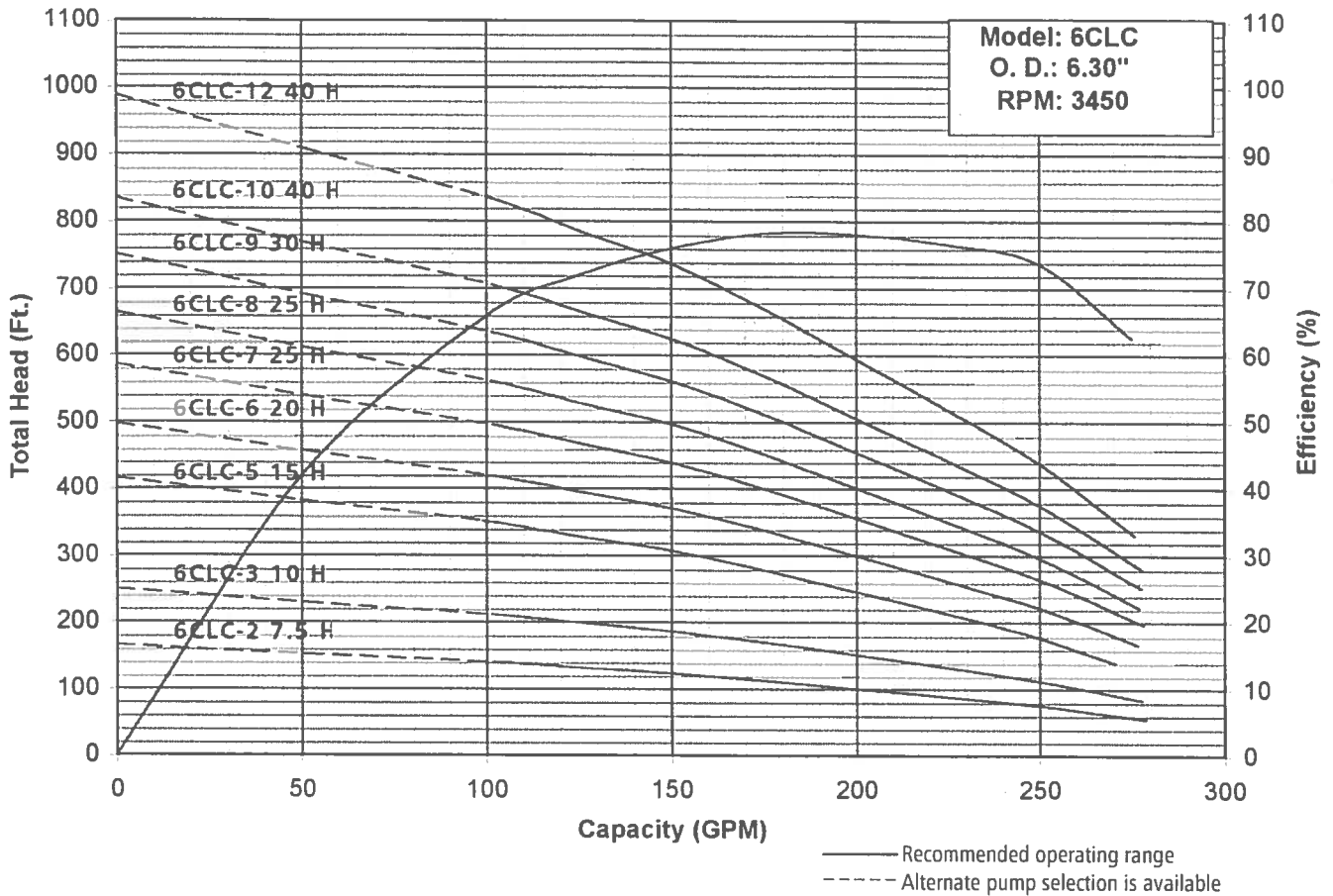
NLI Water Monitoring Data

				Avg daily use since last reading						"Domestic" pump #1 avg daily use			"Domestic" pump #2 avg daily use		
Date	Well pump flow meter	use (gallons)	reading (gallons)	Well pump hr meter	use (hours)	Well pump avg daily use (hours)	Domestic #1 hr meter	use (hours)	Domestic #1 avg daily use (hours)	Domestic #2 hr meter	use (hours)	Domestic #2 avg daily use (hours)	High cap pump hr meter	use (hours)	
12/26/2000		21789700													
1/2/2001		22473300	683600	97657.14		1603.7			134			332		4.6	
1/8/2001		23066800	593500	98916.67		1649.7	46	7.67	160.2	26.2	4.37	357.3	25.3	4.22	
1/15/2001		23762000	695200	99314.29		1703.9	54.2	7.74	191	30.8	4.40	387	29.7	4.24	
1/22/2001		24486600	724600	103514.29		1760.9	57	8.14	223.2	32.2	4.60	417.6	30.6	4.37	
1/29/2001		25194500	707900	101128.57		1816.5	55.6	7.94	254.8	31.6	4.51	447.6	30	4.29	
2/4/2001		25986000	791500	113071.43		1879	62.5	8.93	290.4	35.6	5.09	481.1	33.5	4.79	
2/8/2001	high	26521400	535400	133850.00		1921.9	42.9	10.73	314.1	23.7	5.93	503.9	22.8	5.70	
2/11/2001		26868800	347400	115800.00		1949.7	27.8	9.27	329.2	15.1	5.03	519	15.1	5.03	
2/19/2001		27857200	490000	122500.00		2029.1	79.4	9.92	371.7	42.5	5.31	562.7	43.7	5.46	
2/25/2001		28425400	568200	94700.00		2073.7	44.6	7.43	396.6	24.9	4.15	587.3	24.6	4.10	
3/5/2001		29115700	690300	98614.29		2128.3	54.6	7.8	424.4	27.8	3.97	619.2	31.9	4.56	
3/12/2001		29727100	611400	87342.86		2175.9	47.6	6.80	451.1	26.7	3.81	645.9	26.7	3.81	
3/19/2001		30454300	727200	103885.71		2232.5	56.6	8.09	482.8	31.7	4.53	677.8	31.9	4.56	
3/27/2001	math error	31216500	762200	95275.00		2291.5	59	7.38	516.3	33.5	4.19	711.3	33.5	4.19	
4/2/2001		31822500	606000	101000.00		2338.6	47.1	7.85	543	26.7	4.45	737.8	26.5	4.42	
4/6/2001		32255500	433000	108250.00		2372.2	33.6	8.40	562	19	4.75	756.2	18.4	4.60	
4/16/2001		33344900	1089400	108940.00		2456.9	84.7	8.47	609.9	47.9	4.79	804.4	48.2	4.82	
4/23/2001		33956500	611600	87371.43		2505.2	48.3	6.90	636.7	26.8	3.83	831.1	26.7	3.81	
4/30/2001	math error	34559100	602600	86085.71		2553.5	48.3	6.90	663.2	26.5	3.79	852.5	21.4	3.06	
5/7/2001		35159000	599900	85700.00		2600.7	47.2	6.74	689.6	26.4	3.77	883.9	31.4	4.49	
5/14/2001		35756100	597100	85300.00		2648.5	47.8	6.83	715.5	25.9	3.70	909.6	25.7	3.67	
5/22/2001		36208600	452500	56562.50		2684.7	36.2	4.52	735.7	20.2	2.53	929.6	20	2.50	
5/29/2001		36790400	581800	83114.29		2731.3	46.6	6.66	761.5	25.8	3.69	955.3	25.7	3.67	
6/4/2001		37276200	485800	80966.67		2770.2	38.9	6.48	783.1	21.6	3.60	976.7	21.4	3.57	
6/11/2001		37722500	446300	63757.14		2805.8	35.6	5.09	802.8	19.7	2.81	996.2	19.5	2.79	
6/18/2001		37997700	275200	39314.29		2827.6	21.8	3.11	815.2	12.4	1.77	1008.4	12.2	1.74	
6/25/2001		38551800	554100	79157.14		2874.9	47.3	6.76	839.8	24.6	3.51	1032.9	24.5	3.50	
7/2/2001		39212400	660600	94371.43		2931.1	56.2	8.03	869	29.2	4.17	1061.9	29	4.14	
7/9/2001		39891500	679100	97014.29		2989.3	58.2	8.31	899	30	4.29	1091.7	29.8	4.26	
7/16/2001		40579000	687500	98214.29		3048.2	58.9	8.41	930.5	31.5	4.50	1122.3	30.6	4.37	
7/23/2001		41255400	676400	96628.57		3106.1	57.9	8.27	962.8	32.3	4.61	1153	30.7	4.39	
7/30/2001		41934800	679400	97057.14		3164.3	58.2	8.31	994.8	32	4.57	1183.8	30.8	4.40	
8/6/2001		42612400	677600	96800.00		3222.3	58	8.29	1027	32.2	4.60	1214.5	30.7	4.39	
8/13/2001		43309400	697000	99571.43		3281.8	59.5	8.50	1059.9	32.9	4.70	1246.1	31.6	4.51	
8/21/2001		44180300	870900	108862.50		3356.7	74.9	9.36	1101.3	41.4	5.17	1285.9	39.8	4.98	
8/27/2001		44827400	647100	107850.00		3412.3	55.6	9.27	1132.6	31.3	5.22	1315.9	30	5.00	
9/4/2001		45673500	846100	105762.50		3485.2	72.9	9.11	1174.8	42.2	5.28	1355.9	40	5.00	
9/10/2001	math error	46302600	629100	104850.00		3539.3	54.1	9.02	1206.7	31.9	5.32	1385.7	29.8	4.97	
9/17/2001		46973900	671300	95900.00		3596	56.7	8.10	1241.4	34.7	4.96	1418	32.3	4.61	
10/1/2001		48342600	1368700	97764.29		3714.1	118.1	8.44	1312	70.6	5.04	1484.1	66.1	4.72	
10/8/2001		49014000	671400	95914.29		3771	56.9	8.13	1347.1	35.1	5.01	1517.2	33.1	4.73	
10/16/2001		49703700	689700	86212.50		3828.4	57.4	7.18	1384.1	37	4.63	1552.2	35	4.38	
10/22/2001		50098200	394500	65750.00		3860.5	32.1	5.35	1405.7	21.6	3.60	1573.1	20.9	3.48	
10/30/2001		50604200	506000	63250.00		3901.6	41.1	5.14	1434	28.3	3.54	1600.3	27.2	3.40	
11/5/2001		51237600	633400	105566.67		3952.4	50.8	8.47	1466.7	32.7	5.45	1631	30.7	5.12	

NLI Water Monitoring Data

				Avg daily use since last reading	Well pump	use	Well pump avg daily use	Domestic #1	use	"Domestic" pump #1 avg daily use	Domestic #2	use	"Domestic" pump #2 avg daily use	High cap pump	use
11/13/2001		51897800	660200	82525.00	4006.4	54	6.75	1502.2	35.5	4.44	1664.4	33.4	4.18	4.9	0
11/19/2001	math error	52296500	398700	66450.00	4038.8	32.4	5.40	1524.7	22.5	3.75	1686.3	21.9	3.65	4.9	0
11/26/2001		52995300	698800	99828.57	4096	57.2	8.17	1562.1	37.4	5.34	1721.6	35.3	5.04	4.9	0
12/3/2001		53584800	589500	84214.29	4144.8	48.8	6.97	1594.5	32.4	4.63	1751	29.4	4.20	4.9	0
12/10/2001		54248800	664000	94857.14	4200	55.2	7.89	1630.6	36.1	5.16	1783.3	32.3	4.61	4.9	0
12/17/2001		54901700	652900	93271.43	4254.4	54.4	7.77	1665.2	34.6	4.94	1815	31.7	4.53	4.9	0
12/24/2001		55687400	785700	112242.86	4320.4	66	9.43	1706.6	41.4	5.91	1851.8	36.8	5.26	4.9	0
12/31/2001	high	56540700	853300	121900.00	4392.7	72.3	10.33	1751	44.4	6.34	1891.2	39.4	5.63	4.9	0
total usage this year		34,067,400.00			2789			1617			1559.2			0.3	
pump gpm					300			150			150			1800	
pump gph					18000			9000			9000			108000	
math check	in not equal to out and not equal to totalizer				5,400,000.00	gallon in		14,553,000.00	gallon out		14,032,800.00	gallon out		32400	gallon out
"Domestic" gal	28,585,800.00														
gallon/AF	325851.4319														
"Domestic" AF	87.72648269														

Model 6CLC 180 GPM



"Domestic" pumps

DIMENSIONS AND WEIGHTS

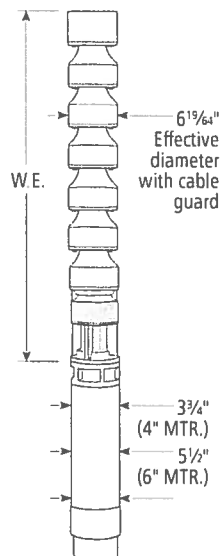
HP	Stages	W.E. Order Number	W.E. Length	W.E. Wt. (lbs.)
7.5	2	C06CLC007A44B	22.4	67
		C06CLC007A64B	24.6	72
10	3	C06CLC010A64B	34.8	89
15	5	C06CLC015A64B	40.0	123
20	6	C06CLC020A64B	45.2	140
25	7	C06CLC025A64B	50.3	157
25	8	C06CLC025A64B	55.4	174
30	9	C06CLC030A64B	60.5	191
40	10	C06CLC040A64B	65.6	208
40	12	C06CLC040B64B	75.8	242

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)

NOTES:

1. All dimensions in inches and weights in lbs.
2. Solid line is recommended operating range.
3. For intermediate horsepower pumps consult factory.
4. Please specify all options changes in W.E. order number.

4" NPT DISCHARGE CONNECTION

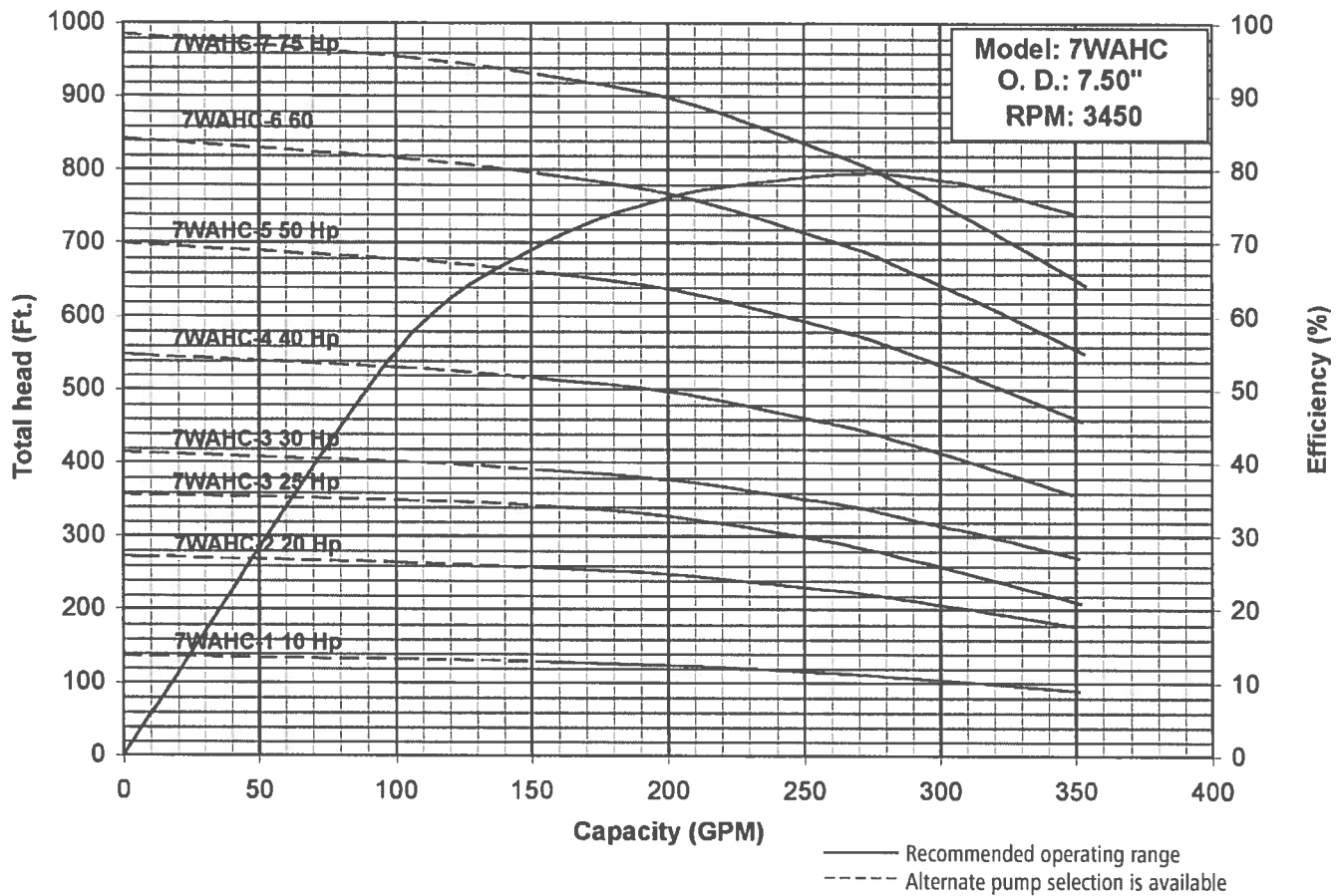


MATERIALS OF CONSTRUCTION

Part Name	Material
Shaft	ASTM A582 S41600
Coupling	ASTM A582 S41600
Suction Adapter	ASTM A536 Gr. 60-40-18
Suction Bearing	ASTM B584 C89835
Impeller	ASTM A744 CF8M
Taperlock	ASTM A108 Gr. 1018
Intermediate Bowl	ASTM A49 Cl. 30B
Intermediate Bowl Bearing	ASTM B584 C89835 (Std.)
Intermediate Bowl Bearing	Rubber (optional)
Upthrust Collar	Polyethylene
Discharge Bowl	ASTM A48 Cl. 30B
Discharge Bowl Bearing	ASTM B584 C89835
Fasteners	SAE J429 Gr. 8
Cable Guard	ASTM A240 S30400
Suction Strainer	ASTM A240 S30400

Model 7WAHC 280 GPM

GOULDS PUMPS
Turbine



Well pump

DIMENSIONS AND WEIGHTS

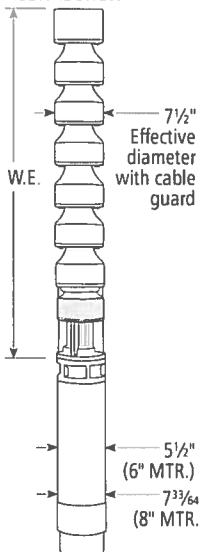
HP	Stages	W.E. Order Number	W.E. Length	W.E. Wt. (lbs.)
10	1	C07WAH010A66B	22.0	68
20	2	C07WAH020A66B	27.5	98
25	3	C07WAH025A66B	33.0	128
30	3	C07WAH030A66B	33.0	128
40	4	C07WAH040A66B	38.5	158
50	5	C07WAH050A86B	44.0	188
60	6	C07WAH060A86B	49.5	218
75	7	C07WAH050A86B	55.0	260

(All dimensions in inches and weights in lbs. Do not use for construction purposes.)

NOTES:

1. All dimensions in inches and weights in lbs.
2. Solid line is recommended operating range.
3. For intermediate horsepower pumps consult factory.
4. Please specify all options changes in W.E. order number.

6" NPT DISCHARGE CONNECTION



MATERIALS OF CONSTRUCTION

Part Name	Material
Shaft	ASTM A582 S41600
Coupling	ASTM A582 S41600
Suction Adapter	ASTM A536 Gr. 60-40-18
Suction Bearing	ASTM B584 C89835
Impeller	ASTM A744 CF8M
Taperlock	ASTM A108 Gr. 1018
Intermediate Bowl	ASTM A49 Cl. 30B
Intermediate Bowl Bearing	ASTM B584 C89835 (Std.)
Intermediate Bowl Bearing	Rubber (optional)
Upthrust Collar	Polyethylene
Discharge Bowl	ASTM A48 Cl. 30B
Discharge Bowl Bearing	ASTM B584 C89835
Fasteners	SAE J429 Gr. 8
Cable Guard	ASTM A240 S30400
Suction Strainer	ASTM A240 S30400