



MEMO

To: City of Bloomfield

From: HR Green, Inc.

Subject: Progress Report No. 7

Date: December 10, 2020

Woodruff Construction recently submitted Pay Application No. 7 in the amount of \$882,211.23 for work completed in November. The total balance remaining after Pay Applications 1 through 7 is \$2,166,123.86. HR Green has approved Pay Application No. 7 and recommends that the City approve the application at the upcoming council meeting.

Pay Application No. 7 includes the following completed items: demolition, concrete work, building finishes, plumbing, HVAC, integrated automation, electrical, earthwork, utility installation, and lagoon equipment installation. The planned work for the next month is as follows:

- Sludge removal from Lagoon Cell 1
- Lagoon modifications/earthwork
- Site piping
- Blower and aeration piping installation

If you have any questions, please feel free to contact me at 319-841-4304 or hjindrich@hrgreen.com.

Haley Jindrich, EIT

Staff Engineer

A handwritten signature in black ink that reads 'Haley Jindrich'.

Enclosures: Pay Application No. 7; Updated Construction Schedule



Contractor's Application for Payment No. Seven

	Application Period: Nov 1st - Dec 1st, 2020	Application Date: 12/1/2020
To (Owner): City of Bloomfield	From (Contractor): Woodruff Construction LLC	Via (Engineer): HR Green
Project: Waste Water System Improvements	Contract: Wastewater Treatment System Improvements	
Owner's Contract No.:	Contractor's Project No.: #20-038	Engineer's Project No.: HRG #171462

**Application For Payment
Change Order Summary**

Approved Change Orders		
Number	Additions	Deductions
TOTALS		
NET CHANGE BY CHANGE ORDERS		

1. ORIGINAL CONTRACT PRICE.....	\$ \$7,035,674.33
2. Net change by Change Orders.....	\$
3. Current Contract Price (Line 1 ± 2).....	\$ \$7,035,674.33
4. TOTAL COMPLETED AND STORED TO DATE	
(Column F total on Progress Estimates).....	\$ \$5,125,842.60
5. RETAINAGE:	
a. 5% X \$5,125,842.60 Work Completed.....	\$ \$256,292.13
b. 5% X Stored Material.....	\$
c. Total Retainage (Line 5.a + Line 5.b).....	\$ \$256,292.13
6. AMOUNT ELIGIBLE TO DATE (Line 4 - Line 5.c).....	\$ \$4,869,550.47
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....	\$ \$3,987,339.24
8. AMOUNT DUE THIS APPLICATION.....	\$ \$882,211.23
9. BALANCE TO FINISH, PLUS RETAINAGE	
(Column G total on Progress Estimates + Line 5.c above).....	\$ \$2,166,123.86

Contractor's Certification

The undersigned Contractor certifies, to the best of its knowledge, the following:

(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;

(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and

(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Contractor Signature: Date: 12/1/20

Payment of: \$ 882,211.23
(Line 8 or other - attach explanation of the other amount)

is recommended by: Halcyon Jirik 12/10/2020
(Engineer) (Date)

Payment of: \$ _____
(Line 8 or other - attach explanation of the other amount)

is approved by: _____ (Date)

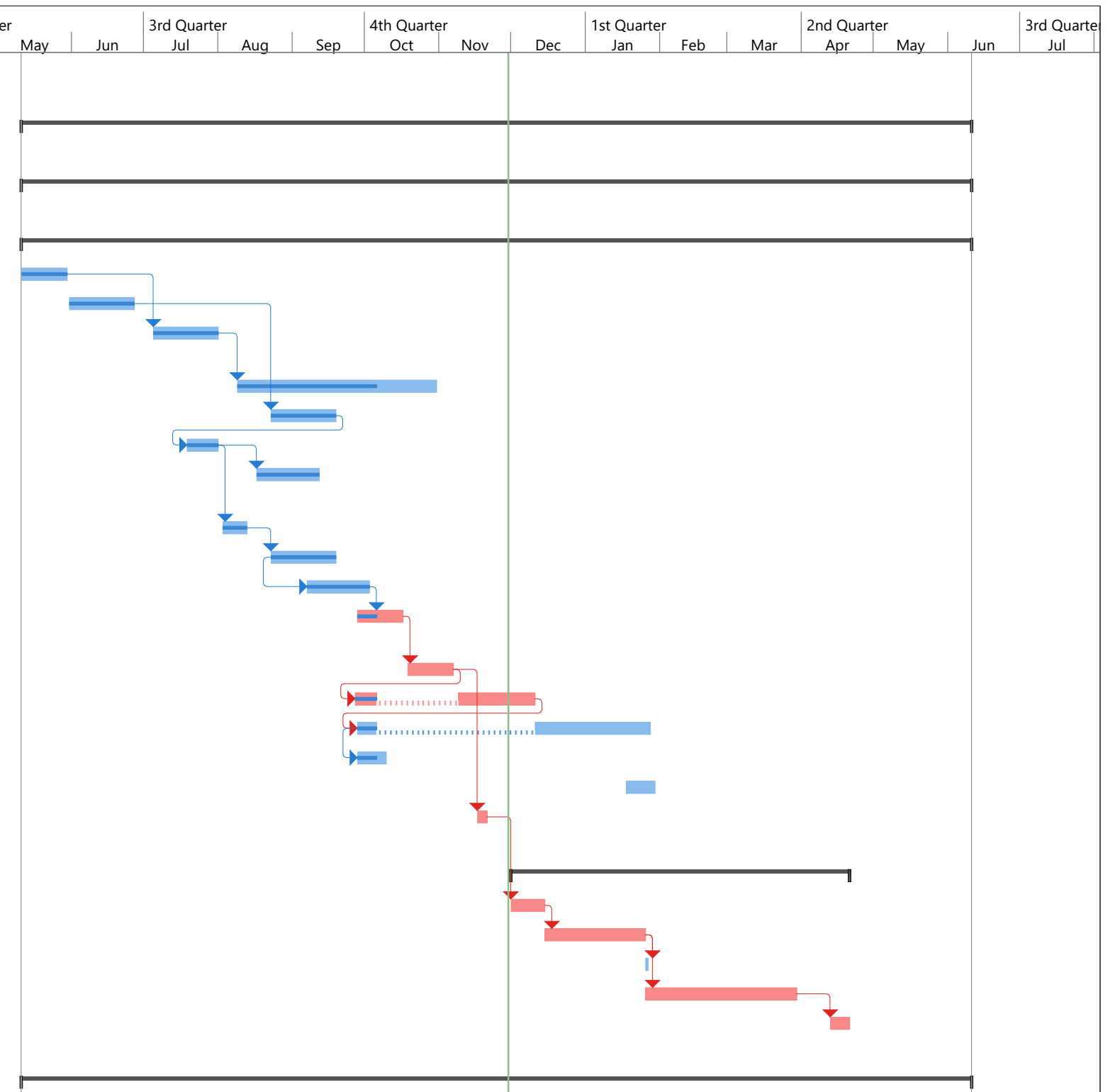
Approved by: _____ (Date)
Funding or Financing Entity (if applicable)

BID ITEMS							
	Description	Unit		Extended Price	Quantity Completed	Value Completed	
1.01	Mobilization/test/misc	ls	1	1642908.68	\$ 1,642,908.68	100%	\$1,642,908.68
1.02	Geotechnical borings of fill material	ls	1	4000.00	\$ 4,000.00	100%	\$4,000.00
1.03	WWTP warning signs	ea	9	111.11	\$ 999.99	0%	\$0.00
1.04	WWTP Entrance sign Allowance	ea	1	6000.00	\$ 6,000.00	0%	\$0.00
1.05	Office room allowance	ls	1	15000.00	\$ 15,000.00	0%	\$0.00
1.06	Paintined Pavment markings	ls	1	1500.00	\$ 1,500.00	0%	\$0.00
				\$ -	0%	\$0.00	
2.01	Demolition of existing Aeration	ls	1	3578.47	\$ 3,578.47	50%	\$1,789.24
2.02	Demo of existing lab building	ls	1	6000.00	\$ 6,000.00	0%	\$0.00
2.03	Plug abandoned piping	ls	1	5100.00	\$ 5,100.00	70%	\$3,570.00
2.04	Sludge removal	ls	1	380590.00	\$ 380,590.00	25%	\$95,147.50
2.05	Remove & replace trash basket LS 1100	ls	1	3757.27	\$ 3,757.27	100%	\$3,757.27
2.06	Remove & replace davit crane LS 1100	ls	1	5362.95	\$ 5,362.95	0%	\$0.00
2.07	Remove & Replace Parshal flume TK 1500	ls	1	10276.19	\$ 10,276.19	100%	\$10,276.19
2.08	Rmove and replace bar screen TK 1500	ls	1	7420.80	\$ 7,420.80	0%	\$0.00
2.09	Relocat effluent sampler	ls	1	200.00	\$ 200.00	50%	\$100.00
2.10	Replace pump cables LS 1100	ls	1	17900.00	\$ 17,900.00	0%	\$0.00
2.11	Existing berm restoration	ls	1	30500.00	\$ 30,500.00	50%	\$15,250.00
				\$ -	0%	\$0.00	
3.01	Blower building concrete	ls	1	61955.12	\$ 61,955.12	100%	\$61,955.12
3.02	Generator foundation & pad	ls	1	8934.98	\$ 8,934.98	100%	\$8,934.98
3.03	Transformer pad	ls	1	1125.03	\$ 1,125.03	100%	\$1,125.03
3.04	Efflunet sampler pad	ls	1	466.45	\$ 466.45	0%	\$0.00
3.05	Equip pad - LS 1100 panel	ls	1	175.00	\$ 175.00	0%	\$0.00
3.06	Equip pad - LS 1240 panel	ls	1	175.00	\$ 175.00	0%	\$0.00
3.07	bollards	ea	3	482.59	\$ 1,447.77	100%	\$1,447.77
3.08	Concrete pier piping supports	ea	64	792.62	\$ 50,727.68	30%	\$15,218.30
3.09	Lagoon piping inlet pads	ea	4	2625.03	\$ 10,500.12	50%	\$5,250.06
3.10	PCC Drive 8"	sy	1422	77.77	\$ 110,588.94	0%	\$0.00
3.11	PCC Ramp	sy	38	182.56	\$ 6,937.28	0%	\$0.00
3.12	Sidewalk 4"	sy	48	71.92	\$ 3,452.16	0%	\$0.00
3.13	Swing gate footings	ls	1	439.00	\$ 439.00	0%	\$0.00
3.14	Lagoon cell 2 inlet MH 2160	ls	1	9456.00	\$ 9,456.00	0%	\$0.00
3.15	Bypass MH 2260	ls	1	10595.00	\$ 10,595.00	100%	\$10,595.00
3.16	Lagoon cells 3A MH 2320	ls	1	9292.00	\$ 9,292.00	100%	\$9,292.00
3.17	Lagoon control manhole MH 2360	ls	1	14051.00	\$ 14,051.00	100%	\$14,051.00
3.18	Primary splitter Structure TK 4010	ls	1	55087.77	\$ 55,087.77	100%	\$55,087.77
3.19	Secondary splitter structure	ls	1	56023.85	\$ 56,023.85	100%	\$56,023.85
3.20	SAGR Level control MH 7100	ls	1	3571.00	\$ 3,571.00	100%	\$3,571.00
3.21	Precast Top LS 110 & Valve Vault	ls	1	4774.03	\$ 4,774.03	0%	\$0.00
				\$ -	0%	\$0.00	
4.01	Blower building masonry	ls	1	52778.01	\$ 52,778.01	100%	\$52,778.01
				\$ -	0%	\$0.00	
5.01	Aluminum Grating	sf	450	63.21	\$ 28,444.50	10%	\$2,844.45
				\$ -	0%	\$0.00	
9.01	Paints and coatings	ls	1	12070.00	\$ 12,070.00	90%	\$10,863.00
				\$ -	0%	\$0.00	
22.01	16" plug valve	ea	2	6683.00	\$ 13,366.00	2.00	\$13,366.00
22.02	20" plug valve	ea	1	13207.00	\$ 13,207.00	1.00	\$13,207.00

22.03	20" gate valve	ea	1	16439.00	\$ 16,439.00	1.00	\$16,439.00
22.04	4" butterfly valve	ea	21	619.00	\$ 12,999.00	10.00	\$6,190.00
22.05	6" butterfly valve	ea	3	810.00	\$ 2,430.00	0.00	\$0.00
22.07	12" butterfly valves	ea	2	2551.00	\$ 5,102.00	0.00	\$0.00
22.08	Plumbing fixtures	ls	1	20000.00	\$ 20,000.00	75%	\$15,000.00
22.09	Plumbing piping & specialties	ls	1	14000.00	\$ 14,000.00	60%	\$8,400.00
					\$ -	0%	\$0.00
23.01	Blower Building HVAC	ls	1	61480.00	\$ 61,480.00	25%	\$15,370.00
					\$ -	0%	\$0.00
25.01	LS 1100 control panel	ls	1	42189.00	\$ 42,189.00	22%	\$9,281.58
25.02	LS 1240 control panel	ls	1	36362.00	\$ 36,362.00	22%	\$7,999.64
25.03	Instuments & panels- 2 DO, 2 Ultrasonic	ls	1	29106.00	\$ 29,106.00	0%	\$0.00
25.04	Master & remote panels - blower SCADA	ls	1	41055.00	\$ 41,055.00	12%	\$4,926.60
25.05	SCADA software and programming	ls	1	41286.00	\$ 41,286.00	0%	\$0.00
					\$ -	0%	\$0.00
26.01	New generator and wiring	ls	1	176041.00	\$ 176,041.00	85%	\$149,634.85
26.02	Blower BLDG elec	ls	1	191194.00	\$ 191,194.00	50%	\$95,597.00
26.03	Power for LS 1240	ls	1	10475.00	\$ 10,475.00	44%	\$4,609.00
26.04	Replace service for exist maint & blower building	ls	1	39432.00	\$ 39,432.00	40%	\$15,772.80
26.05	Remote instrumentation power circuits	ls	1	26843.00	\$ 26,843.00	0%	\$0.00
26.06	New site pole lights	ea	2	3699.50	\$ 7,399.00	0%	\$0.00
26.07	Retrofit site pole lights with new lighting circuit	ea	8	4942.75	\$ 39,542.00	35%	\$13,839.70
					\$ -	0%	\$0.00
27.01	FO cable distubution	ls	1	31026.00	\$ 31,026.00	50%	\$15,513.00
					\$ -	0%	\$0.00
31.01	site restoration	ls	1	57500.00	\$ 57,500.00	25%	\$14,375.00
31.02	excavation	ls	1	53000.00	\$ 53,000.00	80%	\$42,400.00
31.03	backfill	ls	1	66400.00	\$ 66,400.00	75%	\$49,800.00
31.04	new lagoon berms	ls	1	411500.00	\$ 411,500.00	50%	\$205,750.00
31.05	uniform graded rock	cy	17547	44.67	\$ 783,824.49	100%	\$783,824.49
31.06	equipment gravel	sf	2425	1.00	\$ 2,425.00	20%	\$485.00
31.07	gravel drive	sf	30500	1.50	\$ 45,750.00	15%	\$6,862.50
31.08	gravel overlay	sf	42490	1.00	\$ 42,490.00	0%	\$0.00
31.09	insulating mulch	cy	1950	18.41	\$ 35,899.50	95%	\$34,104.53
31.10	Geo fabric	sf	129016	0.25	\$ 32,254.00	100%	\$32,254.00
31.11	Wall framing and sheeting	lf	2064	51.26	\$ 105,800.64	100%	\$105,800.64
31.12	rip rap class E	ton	381	55.00	\$ 20,955.00	361.88	\$19,903.40
31.13	Rivier rock landscaping	ton	7	50.00	\$ 350.00	0%	\$0.00
					\$ -	0%	\$0.00
32.01	Metal swing gate 20'	ea	2	750.00	\$ 1,500.00	0%	\$0.00
32.02	Metal swing gate 16'	ea	1	600.00	\$ 600.00	0%	\$0.00
32.03	Metal swing gate 12'	ea	1	430.00	\$ 430.00	0%	\$0.00
32.04	Fencing	lf	3395	7.62	\$ 25,869.90	0%	\$0.00
					\$ -	0%	\$0.00
33.01	2" PE water service	lf	27	109.89	\$ 2,967.03	95%	\$2,818.68
33.02	4" PVC sanitary piping	lf	58	63.60	\$ 3,688.80	95%	\$3,504.36
33.03	12" PVC piping	lf	1039	59.35	\$ 61,664.65	100%	\$61,664.65
33.04	18" PVC piping	lf	629	74.80	\$ 47,049.20	100%	\$47,049.20
33.05	20" PVC certa lock piping	lf	1198	179.03	\$ 214,477.94	25%	\$53,619.49
33.06	21" PVC piping	lf	1190	107.52	\$ 127,948.80	75%	\$95,961.60
33.07	6" SS aeration Header piping	lf	7	1739.00	\$ 12,173.00	30%	\$3,651.90
33.08	8" SS aeration Header piping	lf	12	594.00	\$ 7,128.00	30%	\$2,138.40

33.09	10" SS aeration Header piping	lf	28	649.00	\$ 18,172.00	30%	\$5,451.60
33.10	12" SS aeration Header piping	lf	35	970.00	\$ 33,950.00	30%	\$10,185.00
33.11	4" HDPE Aeration header piping	lf	640	36.52	\$ 23,372.80	100%	\$23,372.80
33.12	6" HDPE Aeration header piping	lf	934	33.56	\$ 31,345.04	50%	\$15,672.52
33.13	8" HDPE Aeration header piping	lf	637	36.50	\$ 23,250.50	50%	\$11,625.25
33.14	10" HDPE Aeration header piping	lf	785	43.20	\$ 33,912.00	50%	\$16,956.00
33.15	12" HDPE Aeration header piping	lf	863	46.35	\$ 40,000.05	50%	\$20,000.03
					\$ -	0%	\$0.00
35.01	Turtle Guard type 2	ea	4	200.00	\$ 800.00	75%	\$600.00
35.02	12" slide gates	ea	8	4326.45	\$ 34,611.60	8.00	\$34,611.60
35.03	18" slide gates	ea	4	4986.49	\$ 19,945.96	4.00	\$19,945.96
35.04	20" slide gates	ea	4	5298.00	\$ 21,192.00	3.00	\$15,894.00
35.05	21" slide gates	ea	6	5429.40	\$ 32,576.40	5.00	\$27,147.00
					\$ -		
44.01	SAGR equipment installation	ls	1	706097.01	\$ 706,097.01	100%	\$706,097.01
44.02	SAGR HDPE liner	sf	76376	0.96	\$ 73,320.96	100%	\$73,320.96
					\$ -	0%	\$0.00
46.01	Install lagoon aeration equipment	ls	1	234171.02	\$ 234,171.02	35%	\$81,959.86
46.02	Baffle curtain	lf	260	77.60	\$ 20,176.00	30%	\$6,052.80
					\$ -	0%	\$0.00
	Total				\$ 7,035,674.33	73%	\$ 5,125,842.60

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter
							Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
1	➔																					
2	➔																					
3	➔	Lead time to receive submittal	284 days?	Mon 5/11/20	Thu 6/10/21																	
4	➔																					
5	➔	Lead time after submittal is approved	284 days?	Mon 5/11/20	Thu 6/10/21																	
6	➔																					
7	➔	PH 1 Work	284 days?	Mon 5/11/20	Thu 6/10/21																	
8	➔	Desludge pond 2 and 3	15 days	Mon 5/11/20	Fri 5/29/20																	
9	➔	pond embankment	20 days	Sun 5/31/20	Fri 6/26/20																	
10	➔	excavate SAGR Walls, Splitter Structure, Blower Building	20 days	Sun 7/5/20	Fri 7/31/20	8																
11	➔	Blower Building construction	60 days	Sun 8/9/20	Fri 10/30/20	10FS-5 days																
12	➔	Primary & Secondary Structures	20 days	Sun 8/23/20	Fri 9/18/20	9																
13	➔	Set SAGR walls	10 days	Sun 7/19/20	Fri 7/31/20	12																
14	➔	Pond #3 backfill & final effluent connection	20 days	Mon 8/17/20	Fri 9/11/20	13																
15	➔	SAGR Liners	8 days	Mon 8/3/20	Wed 8/12/20	13																
16	➔	SAGR Rock/Equipment	20 days	Sun 8/23/20	Fri 9/18/20	15																
17	➔	Pond 3A Utilities & Equip	20 days	Mon 9/7/20	Fri 10/2/20	16SS+10 days																
18	➔	Exist Pond 2 backfill & rough grade	15 days	Mon 9/28/20	Fri 10/16/20	17FS-5 days																
19	➔	SAGR Mulch layer	15 days	Mon 10/19/20	Fri 11/6/20	18																
20	➔	blower and piping Install	30 days	Sun 9/27/20	Thu 12/10/20	19																
21	➔	Electrical & HVAC	40 days	Mon 9/28/20	Wed 1/27/21	20																
22	➔	Backup generator install	10 days	Mon 9/28/20	Fri 10/9/20	21SS																
23	➔	Install VFD's and control panel equip	10 days	Mon 1/18/21	Fri 1/29/21																	
24	➔	Install lagoon 3A equipment	4 days	Tue 11/17/20	Fri 11/20/20	19FS+6 days																
25	➔																					
26	➔	Ph 2 Work	101 days?	Tue 12/1/20	Tue 4/20/21																	
27	➔	Desludge pond 1	10 days	Tue 12/1/20	Mon 12/14/20	24FS+6 days																
28	➔	New pond berm	30 days	Tue 12/15/20	Mon 1/25/21	27																
29	➔	Demo existing lab building	1 day	Tue 1/26/21	Tue 1/26/21	28																
30	➔	Lagoon 1 & 2 Utilities & Equip	45 days	Tue 1/26/21	Mon 3/29/21	28																
31	➔	Instal lagoon 1 & 2 Equipment	6 days?	Tue 4/13/21	Tue 4/20/21	30FS+10 days																
32	➔																					
33	➔	Ph 3 Work	284 days	Mon 5/11/20	Thu 6/10/21																	



Project: Sequence Schedule
Date: Mon 11/30/20

Task		Inactive Task		Manual Summary Rollup		External Milestone		Manual Progress	
Split		Inactive Milestone		Manual Summary		Deadline			
Milestone		Inactive Summary		Start-only		Critical			
Summary		Manual Task		Finish-only		Critical Split			
Project Summary		Duration-only		External Tasks		Progress			