

INSTRUMENT LIST

Item	P&ID	COMPONENT CODE	Tagname	Description 1	Description 2	Range	DETAIL NUMBER	Notes
1	09N1801	L42	LIT-1852	Septage Equalization Tank Level	Level, Submersible	0 - 10 ft	4091-267	
2	09N1801	P04	PI-1861	NPW Pressure to Septage Receiving	Pressure Gauge	0 - 60 psi	4091-305	
3	09N1801	P15	PE-1862	Septage Equalization Pump Discharge	Annular Seal	0 - 60 psi	4091-304	3" Line
4	09N1801	P04	PI-1862	Septage Equalization Pump Discharge	Pressure Gauge	0 - 60 psi	4091-304	
5	09N2001	P04	PI-2063	NPW Pressure to Influent Screen 1	Pressure Gauge	0 - 60 psi	4091-305	
6	09N2001	P04	PI-2064	NPW Pressure to Influent Screen 2	Pressure Gauge	0 - 60 psi	4091-305	
7	09N2001	F20	FIT-2071	Influent Flow	Flow, Parshal Flume	0 - 15 mgd	4091-203	
8	09N2002	P15	PE-2061	Grit Pump Discharge	Annular Seal	0 - 60 psi	4091-304	4" Line
9	09N2002	P04	PI-2061	Grit Pump Discharge	Pressure Gauge	0 - 60 psi	4091-304	
10	09N2003	P04	PI-2062	Vortex Separator Influent	Pressure Gauge	0 - 60 psi	4091-305	
11	09N2004	P04	PI-2065	NPW Pressure to Fine Screen 1	Pressure Gauge	0 - 60 psi	4091-305	
12	09N2004	P04	PI-2066	NPW Pressure to Fine Screen 2	Pressure Gauge	0 - 60 psi	4091-305	
13	09N2005	T04	TIT-2003	Headworks Electrical Room	Temperature	32 - 100 degF	4091-384	
14	09N2005	A10	AIT-2081	Headworks	LEL Analyzer	N/A	4091-150	
15	09N2005	A10	AE-2081A	Headworks Methane	Methane Element	0 - 100%	4091-150	
16	09N2005	A10	AE-2081B	Headworks Hexane	Hexane Element	0 - 100%	4091-150	
17	09N2501	L42	LIT-2551	Equalization Tank	Level, Submersible	0 - 20 ft	4091-163AG	
18	09N2501	L18	LSHH-2552	Equalization Tank	Level Switch, Float	Set @ 15'	4091-248	
19	09N2501	L42	LIT-2553	Tank Drain Pump Station	Level, Submersible	0 - 25 ft	4091-163AG	
20	09N2501	L18	LSHH-2554	Tank Drain Pump Station	Level Switch, Float	Set @ 21"	4091-248	
21	09N2501	L18	LSLL-2555	Tank Drain Pump Station	Level Switch, Float	Set @ 2'	4091-248	
22	09N2501	P15	PE-2561	Tank Drain Pump 1 Discharge	Annular Seal	0 - 60 psi	4091-304	4" Line
23	09N2501	P04	PI-2561	Tank Drain Pump 1 Discharge	Pressure Gauge	0 - 60 psi	4091-304	
24	09N2501	P15	PE-2562	Tank Drain Pump 2 Discharge	Annular Seal	0 - 60 psi	4091-304	4" Line
25	09N2501	P04	PI-2562	Tank Drain Pump 2 Discharge	Pressure Gauge	0 - 60 psi	4091-304	
26	09N2501	F04	FIT-2571	Grit Basin Feed	Flow, Electromagnetic	0 - 3500 gpm	4091-219	14" line
27	09N2501	F04	FIT-2572	Tank Drain Pump Discharge	Flow, Electromagnetic	0 - 300 gpm	4091-219	4" line
28	09N2501	F04	FIT-2574	RAS Re-Screening Flow	Flow, Electromagnetic	0 - 300 gpm	4091-219	4" line
29	09N2502	L18	LSH-2556	Influent Splitter	Level Switch, Float	Set @ 9'	4091-248	
30	09N2502	F04	FIT-2573	Influent Splitter	Flow, Electromagnetic	0 - 3500 gpm	4091-219	14" line
31	09N2502	F51	FIT-2671	Bioreactor 1 Air	Flow, Thermal Mass	0 - 600 scfm	4091-217	6" line
32	09N2502	A00	AIT-2680	Bioreactor 1 Aerobic Zone	Analyzer	N/A	4091-382	
33	09N2502	A20	AE-2681	Bioreactor 1 Aerobic Zone	DO Element	0 - 20 ppm	4091-169	
34	09N2502	A46	AE-2682	Bioreactor 1 Aerobic Zone	NO3 Element	0 - 1000 mg/L	4091-169	
35	09N2502	F51	FIT-2771	Bioreactor 2 Air	Flow, Thermal Mass	0 - 600 scfm	4091-217	6" line
36	09N2502	A00	AIT-2780	Bioreactor 2 Aerobic Zone	Analyzer	N/A	4091-382	
37	09N2502	A20	AE-2781	Bioreactor 2 Aerobic Zone	DO Element	0 - 20 ppm	4091-169	
38	09N2502	A46	AE-2782	Bioreactor 2 Aerobic Zone	NO3 Element	0 - 1000 mg/L	4091-169	
39	09N2502	F51	FIT-2871	Bioreactor 3 Air	Flow, Thermal Mass	0 - 600 scfm	4091-217	6" line
40	09N2502	A00	AIT-2880	Bioreactor 3 Aerobic Zone	Analyzer	N/A	4091-382	
41	09N2502	A20	AE-2881	Bioreactor 3 Aerobic Zone	DO Element	0 - 20 ppm	4091-169	
42	09N2502	A46	AE-2882	Bioreactor 3 Aerobic Zone	NO3 Element	0 - 1000 mg/L	4091-169	
43	09N2503	L42	LIT-3251	WAS Wetwell Level	Level, Submersible	0 - 20 ft	4091-163AG	

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JUNE 2025
GRCA 257282

INSTRUMENTATION AND CONTROL
FOR PROCESS SYSTEMS
40 90 00 SUPPLEMENT - 1

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Item	P&ID	COMPONENT CODE	Tagname	Description 1	Description 2	Range	DETAIL NUMBER	Notes
44	09N2503	L18	LSHH-3252	WAS Wetwell Level	Level Switch, Float	Set @ 10'	4091-248	
45	09N2503	L18	LSLL-3253	WAS Wetwell Level	Level Switch, Float	Set @ 2'	4091-248	
46	09N3201	F04	FIT-3271	WAS Wetwell Effluent flow	Flow, Electromagnetic	0 - 300 gpm	4091-219	4" line
47	09N3201	A35A	AE-3281	WAS Pumps	TSS Element	0 - 50 mg/L	4091-180	
48	09N3201	A01	AIT-3281	WAS Wetwell	Analyzer	N/A	4091-382	
49	09N3201	P15	PE-3311A	RAS Pump 1 Inlet	Annular Seal	0 - 60 psi	4091-304	10" Line
50	09N3201	P04	PI-3311A	RAS Pump 1 Inlet	Pressure Gauge	0 - 60 psi	4091-304	
51	09N3201	P07	PSH-3311B	RAS Pump 1 Discharge	Pressure Switch	0 - 60 psi	4091-305	Set @ 30 psi
52	09N3201	P15	PE-3311C	RAS Pump 1 Discharge	Annular Seal	0 - 60 psi	4091-304	10" Line
53	09N3201	P04	PI-3311C	RAS Pump 1 Discharge	Pressure Gauge	0 - 60 psi	4091-304	
54	09N3201	F04	FIT-3371	Membrane 1 Effluent Flow	Flow, Electromagnetic	0 - 1500 gpm	4091-219	10" line
55	09N3201	P15	PE-3411A	RAS Pump 2 Inlet	Annular Seal	0 - 60 psi	4091-304	10" Line
56	09N3201	P04	PI-3411A	RAS Pump 2 Inlet	Pressure Gauge	0 - 60 psi	4091-304	
57	09N3201	P07	PSH-3411B	RAS Pump 2 Discharge	Pressure Switch	0 - 60 psi	4091-305	Set @ 30 psi
58	09N3201	P15	PE-3411C	RAS Pump 2 Discharge	Annular Seal	0 - 60 psi	4091-304	10" Line
59	09N3201	P04	PI-3411C	RAS Pump 2 Discharge	Pressure Gauge	0 - 60 psi	4091-304	
60	09N3201	F04	FIT-3471	Membrane 2 Effluent Flow	Flow, Electromagnetic	0 - 1500 gpm	4091-219	10" line
61	09N3201	P15	PE-3511A	RAS Pump 3 Inlet	Annular Seal	0 - 60 psi	4091-304	10" Line
62	09N3201	P04	PI-3511A	RAS Pump 3 Inlet	Pressure Gauge	0 - 60 psi	4091-304	
63	09N3201	P07	PSH-3511B	RAS Pump 3 Discharge	Pressure Switch	0 - 60 psi	4091-305	Set @ 30 psi
64	09N3201	P15	PE-3511C	RAS Pump 3 Discharge	Annular Seal	0 - 60 psi	4091-304	10" Line
65	09N3201	P04	PI-3511C	RAS Pump 3 Discharge	Pressure Gauge	0 - 60 psi	4091-304	
66	09N3201	F04	FIT-3571	Membrane 3 Effluent Flow	Flow, Electromagnetic	0 - 1500 gpm	4091-219	10" line
67	09N3204	P04	PI-3261A	UV Effluent Booster Pump 1 Inlet	Pressure Gauge	0 - 60 psi	4091-305	
68	09N3204	P07	PSL-3261B	UV Effluent Booster Pump 1 Inlet	Pressure Switch	0 - 60 psi	4091-305	Set @ 30 psi
69	09N3204	P04	PI-3262	UV Effluent Booster Pump 1 Discharge	Pressure Gauge	0 - 60 psi	4091-305	
70	09N3204	P04	PI-3263A	UV Effluent Booster Pump 2 Inlet	Pressure Gauge	0 - 60 psi	4091-305	
71	09N3204	P07	PSL-3263B	UV Effluent Booster Pump 2 Inlet	Pressure Switch	0 - 60 psi	4091-305	Set @ 30 psi
72	09N3204	P04	PI-3264	UV Effluent Booster Pump 2 Discharge	Pressure Gauge	0 - 60 psi	4091-305	
73	09N3204	F04	FIT-3272	UV Effluent Booster Pumps Recycle	Flow, Electromagnetic	0 - 40 gpm	4091-219	1" line
74	09N3204	F04	FIT-3373	UV Reactor 1 Influent Flow	Flow, Electromagnetic	0 - 750 gpm	4091-219	8" line
75	09N3204	F04	FIT-3473	UV Reactor 2 Influent Flow	Flow, Electromagnetic	0 - 750 gpm	4091-219	8" line
76	09N3204	F04	FIT-3573	UV Reactor 3 Influent Flow	Flow, Electromagnetic	0 - 750 gpm	4091-219	8" line
77	09N3210	P04	PI-3266	Aeration Blowers	Pressure Gauge	0 - 30 psi	4091-305	
78	09N3212	P09	PIT-3267	Reclaimed Water Pump Discharge	Pressure	0 - 60 psi	4091-305	
79	09N3212	P04	PI-3267A	Reclaimed Water Pump Discharge	Pressure Gauge	0 - 60 psi	4091-305	
80	09N3212	P09	PIT-3268	Reclaimed Water	Pressure	0 - 60 psi	4091-305	
81	09N3212	P04	PI-3268A	Reclaimed Water	Pressure Gauge	0 - 60 psi	4091-305	
82	09N3212	F04	FIT-3275	Reclaimed Water	Flow, Electromagnetic	0 - 750 gpm	4091-219	8" line
83	09N3212	A01	AIT-3283	Reclaimed Water	Analyzer	N/A	4091-384	
84	09N3212	A29	AE-3283	Reclaimed Water	Chlorine	0 - 50 mg/L	4091-384	
85	09N3212	P04	PI-3366	Reclaimed Water Pump 1 Discharge	Pressure Gauge	0 - 60 psi	4091-305	
86	09N3212	P04	PI-3466	Reclaimed Water Pump 2 Discharge	Pressure Gauge	0 - 60 psi	4091-305	

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Item	P&ID	COMPONENT CODE	Tagname	Description 1	Description 2	Range	DETAIL NUMBER	Notes
87	09N3212	P04	PI-3566	Reclaimed Water Pump 3 Discharge	Pressure Gauge	0 - 60 psi	4091-305	
88	09N3212	P09	LIT-7051	Reclaimed Water Tank	Level	0 - 360 inH2O	4091-305	
89	09N3212	P03	LIT-7054	Reclaimed Water Surge Tank	Level	0 - 360 inH2O		
90	09N3212	P09	PIT-7061	Reclaimed Water Surge Tank	Pressure	0 - 60 psi	4091-305	
91	09N3213	T04	TIT-3203	Process Electrical Room	Temperature	32 - 100 degF	4091-384	
92	09N8001	P09	PIT-8065	Digesters Air	Pressure	0 - 60 psi	4091-305	
93	09N8001	P04	PI-8163	Digester 1 Air	Pressure Gauge	0 - 60 psi	4091-305	
94	09N8001	F51	FIT-8171	Digester 1 Air	Flow, Thermal Mass	0 - 600 scfm	4091-217	8" line
95	09N8001	P04	PI-8263	Digester 2 Air	Pressure Gauge	0 - 60 psi	4091-305	
96	09N8001	F51	FIT-8271	Digester 2 Air	Flow, Thermal Mass	0 - 600 scfm	4091-217	8" line
97	09N8002	L42	LIT-8151	Digester 1	Level, Submersible	0 - 25 ft	4091-267	
98	09N8002	A00	AIT-8180	Digester 1	Analyzer	N/A	4091-382	
99	09N8002	A05	AE-8180A	Digester 1	ORP Element	(-1500)- 1500 mv	4091-158	
100	09N8002	A20	AE-8180B	Digester 1	DO Element	0 - 20 ppm	4091-158	
101	09N8002	A35B	AE-8180C	Digester 1	TSS Element	0 - 50 mg/L	4091-181	
102	09N8002	A07	AE-8180D	Digester 1	pH Element	0 - 14 pH	4091-158	Includes Temperature
103	09N8002	L42	LIT-8251	Digester 2	Level, Submersible	0 - 25 ft	4091-267	
104	09N8002	A00	AIT-8280	Digester 2	Analyzer	N/A	4091-382	
105	09N8002	A05	AE-8280A	Digester 2	ORP Element	(-1500)- 1500 mv	4091-158	
106	09N8002	A20	AE-8280B	Digester 2	DO Element	0 - 20 ppm	4091-158	
107	09N8002	A35B	AE-8280C	Digester 2	TSS Element	0 - 50 mg/L	4091-181	
108	09N8002	A07	AE-8280D	Digester 2	pH Element	0 - 14 pH	4091-158	Includes Temperature
109	09N8003	T04	TIT-8003	Digester Electrical Room	Temperature	32 - 100 degF	4091-384	
110	09N8601	L42	LIT-8651	Plant Drain Pump Station	Level, Submersible	0 - 20 ft	4091-163AG	
111	09N8601	L18	LSHH-8652	Plant Drain Pump Station	Level Switch, Float	Set @ 8'	4091-248	
112	09N8601	L18	LSLL-8653	Plant Drain Pump Station	Level Switch, Float	Set @ 2'	4091-248	
113	09N8601	P04	PI-8661	Plant Drain Pump 1	Pressure Gauge	0 - 60 psi	4091-305	
114	09N8601	P04	PI-8662	Plant Drain Pump 2	Pressure Gauge	0 - 60 psi	4091-305	
115	09N8601	F04	FIT-8671	Plant Drain Pump Station Combined Flow	Flow, Electromagnetic	0 - 300 gpm	4091-219	4" line
116	09N8701	T14	TI-8701	Compost Chamber 1	Temperature	0 - 200 degF	N/A	
117	09N8701	T14	TI-8702	Compost Chamber 2	Temperature	0 - 200 degF	N/A	
118	09N8701	T14	TI-8703	Compost Chamber 3	Temperature	0 - 200 degF	N/A	
119	09N8701	T14	TI-8704	Compost Chamber 4	Temperature	0 - 200 degF	N/A	

