

04/06/20

(30) N min

Specimen

P. E. T. Vial

NaOH

#	Loc	Pit	Depth	Tin wt	Tin + wet soil (11g)	Tin + dry soil (30g)	Soil for N (30g)	Soil for Fe (6g) 0.5	Soil for P (1.5g) 1	Soil for pH (4g)	Time H2O added	Time pH read	
1	Ridge	1	0-15	<del>0.99</del>									45.83
2	Ridge	1	15-30										44.92
3	Ridge	1	30-45	0.99	11.32	29.91	29.72	6.23	1.43	3.93			45.13
4	Ridge	1	45-60										44.84
5	Ridge	1	60-75	0.98	11.11	30.20	30.09	5.87	1.46	3.93			44.72
6	Ridge	1	75-90										44.98
7	Ridge	1	90-105	1.00	11.11	29.81	29.82	5.88	1.56	3.90			45.39
8	Slope	1	0-15										45.25
9	Slope	1	15-30	1.00	11.00	30.04	30.12	5.71	1.48	3.90			45.02
10	Slope	1	30-45										44.80
11	Slope	1	45-60	0.99	11.00	29.97	30.48	5.89	1.52	4.04			45.55
12	Slope	1	60-75										44.60
13	Slope	1	75-90	—	—	—	—	—	—	—			—
14	Slope	1	90-105										—
15	Valley	1	0-15	0.99	10.94	29.81	29.93	5.83	1.59	3.91			44.89
16	Valley	1	15-30										44.77
17	Valley	1	30-45	0.98	10.92	30.45	29.80	6.26	1.49	4.02			44.73
18	Valley	1	45-60										44.93
19	Valley	1	60-75	1.00	10.92	29.65	31.20	5.79	1.58	3.90			45.45
20	Valley	1	75-90	0.98	11.09	30.09	29.96	5.92	1.56	4.09			44.76
21	Valley	1	90-105	0.99	11.07	29.93	30.07	5.98	1.57	4.11			45.15
22	Ridge	2	0-15	1.00	10.93	29.93	29.92	5.79	1.49	4.11			44.86
23	Ridge	2	15-30	0.99	10.95	30.02	29.92	5.89	1.55	3.90			45.28
24	Ridge	2	30-45	1.00	11.07	30.08	29.91	5.87	1.52	3.98			45.41
25	Ridge	2	45-60	0.96	11.12	30.09	29.94	5.80	1.57	4.13			45.19
26	Ridge	2	60-75	0.99	11.09	30.10	29.91	5.67	1.56	3.98			45.31
27	Ridge	2	75-90	0.98	11.07	30.03	30.05	5.49	1.45	3.97			45.10
28	Ridge	2	90-105	0.99	11.04	30.06	29.92	5.82	1.50	4.04			44.93
29	Slope	2	0-15	0.99	10.96	29.90	29.91	5.73	1.48	3.94			45.10
30	Slope	2	15-30	1.00	10.98	30.21	29.92	5.87	1.45	4.00			45.27
31	Slope	2	30-45	<del>0.98</del>	<del>11.10</del>	<del>29.94</del>	<del>30.51</del>	<del>5.74</del>	<del>1.55</del>	<del>3.95</del>			<del>45.14</del>
32	Slope	2	45-60										45.20
33	Slope	2	60-75	0.98	11.10	29.94	30.51	5.74	1.55	3.95			44.85
34	Slope	2	75-90										44.72

← 0.995, correct

Valley	Time	Time Soil (11)	N <sub>min</sub> (30)	N <sub>spec</sub> (30)	Fe (5-6)	pH (4)	Time H <sub>2</sub> O	Time read	Valley
44.91	35 Slope	0.99	10.99	30.08	5.73	1.51			44.93
45.01	36 Valley	0.99	11.18	30.13	5.81	1.48			44.93
45.15	37 Valley	0.99	11.18	30.13	5.81	1.48			45.18
45.28	38 Valley	0.99	10.96	30.14	5.84	1.55			44.62
44.92	39 Valley	1.00	11.10						44.83
44.99	40 Valley	1.00	11.16	30.10	6.02	1.58			44.75
45.01	41 Valley								45.04
44.96	42 Valley	0.98	11.05	30.22	6.02	1.54			45.08
44.25	43 Ridge								44.99
45.14	44 Ridge	1.00	11.04	30.01	5.74	1.55			44.89
45.24	45 Ridge								44.54
44.68	46 Ridge	1.00	10.94	30.06	5.75	1.57			45.14
44.23	47 Ridge								45.00
44.54	48 Ridge	1.00	11.15	29.88	5.74	1.47			44.31
44.62	49 Ridge								44.44
45.23	50 Slope	0.98	11.24	29.88	6.67	1.45			45.50
44.73	51 Slope								45.37
44.82	52 Slope	0.99	11.09	30.11	5.73	1.57			45.21
45.06	53 Slope								44.67
44.55	54 Slope	0.98	11.11	29.99	5.77	1.49			44.99
44.82	55 Slope								44.94
44.93	56 Slope	1.00	11.12	30.17	6.03	1.61			44.98
44.94	57 Valley								45.02
44.77	58 Valley	1.01	11.10	29.86	5.75	1.51			45.05
45.13	59 Valley		12.15						45.00
44.49	60 Valley	1.00	11.15	30.38	6.00	1.49			45.01
44.91	61 Valley								45.02
44.25	62 Valley	1.02	11.12	30.29	5.59	1.53			45.03
45.11	63 Valley								45.04
45.05	64 Ridge	0.94	11.16	30.11	5.90	1.49			45.30
44.56	65 Ridge								45.33
45.26	66 Ridge	1.00	11.14	30.09	5.70	1.52			45.59
44.96	67 Ridge								44.82
44.77	68 Ridge	0.98	10.95	30.10	5.81	1.46			45.42
45.32	69 Ridge								44.64
44.78	70 Ridge	0.96	10.96	30.30	5.81	1.50			

29.50

#	Loc	Pit	Depth	Tin wt	Tin + wet soil (11g)	Tin + dry soil	Soil for N (30g)	Soil for Fe (6g)	Soil for P (1.5g)	Soil for pH (4g)	Time H2O added	Time pH read	pH
1	Ridge	1	10-15								2:18	2:29	4.91
2	Ridge	1	15-30								2:24	2:34	4.84
3	Ridge	1	30-45								2:27	2:37	4.92
4	Ridge	1	45-60								2:41	2:55	4.66
5	Ridge	1	60-75								3:17	3:28	4.73
6	Ridge	1	75-90								4:22	4:32	4.69
7	Ridge	1	90-105								4:24	4:34	4.62
8	Slope	1	10-15								10:22	10:30	4.74
9	Slope	1	15-30								10:22	10:32	4.86
10	Slope	1	30-45								10:23	10:33	4.97
11	Slope	1	45-60								10:24	10:34	5.17
12	Slope	1	60-75								10:25	10:35	5.00
13	Slope	1	75-90										
14	Slope	1	90-105										
15	Valley	1	10-15								10:27	10:37	4.76
16	Valley	1	15-30								10:28	10:38	5.07
17	Valley	1	30-45								10:30	10:40	5.07
18	Valley	1	45-60								10:37	10:47	5.53
19	Valley	1	60-75								10:38	10:48	5.57
20	Valley	1	75-90								10:41	10:51	5.56
21	Valley	1	90-105								10:44	10:54	5.41
22	Ridge	2	10-15								10:45	10:55	4.52
23	Ridge	2	15-30								10:49	10:59	4.57
24	Ridge	2	30-45								10:51	11:01	4.66
25	Ridge	2	45-60								10:55	11:05	4.57
26	Ridge	2	60-75								10:56	11:06	4.77
27	Ridge	2	75-90								10:58	11:08	4.27
28	Ridge	2	90-105								11:00	11:10	4.29
29	Slope	2	10-15								11:02	11:12	4.36
30	Slope	2	15-30								11:03	11:13	4.35
31	Slope	2	30-45								11:05	11:15	4.63
32	Slope	2	45-60								11:07	11:17	4.60
33	Slope	2	60-75								11:09	11:19	4.55
34	Slope	2	75-90								11:11	11:21	4.51

35	Slope	2	90-105																11:14	11:24	4:53
36	Valley	2	0-15																11:17	11:27	4:62
37	Valley	2	15-30																11:19	11:29	4:41
38	Valley	2	30-45																1:34:36	1:47	5:82
39	Valley	2	45-60																1:37	1:48	5:95
40	Valley	2	60-75																1:39	1:49	5:93
41	Valley	2	75-90																1:40	1:50	5:72
42	Valley	2	90-105																1:41	1:51	5:70
43	Ridge	3	0-15																1:43	1:53	4:62
44	Ridge	3	15-30																1:46	1:56	4:61
45	Ridge	3	30-45																1:52	2:02	4:55
46	Ridge	3	45-60																1:53	2:04	4:47
47	Ridge	3	60-75																1:54	2:05	4:44
48	Ridge	3	75-90																1:55	2:07	4:61
49	Ridge	3	90-105																1:57	2:08	5:02
50	Slope	3	0-15																1:58	2:09	5:16
51	Slope	3	15-30																1:59	2:10	4:47
52	Slope	3	30-45																2:00	2:11	5:05
53	Slope	3	45-60																2:01	2:12	5:00
54	Slope	3	60-75																2:02	2:13	5:01
55	Slope	3	75-90																2:07	2:17	5:04
56	Slope	3	90-105																2:11	2:21	4:89
57	Valley	3	0-15																2:12	2:22	4:83
58	Valley	3	15-30																2:14	2:24	5:03
59	Valley	3	30-45																2:15	2:25	5:32
60	Valley	3	45-60																2:16	2:26	5:14
61	Valley	3	60-75																2:18	2:28	5:02
62	Valley	3	75-90																2:19	2:29	4:91
63	Valley	3	90-105																2:20	2:30	4:65
64	Ridge	4	0-15																2:22	2:32	4:52
65	Ridge	4	15-30																2:23	2:33	4:49
66	Ridge	4	30-45																2:25	2:35	4:83
67	Ridge	4	45-60																2:27	2:37	4:93
68	Ridge	4	60-75																2:28	2:38	4:95
69	Ridge	4	75-90																2:30	2:40	4:96
70	Ridge	4	90-105																2:31	2:41	

100  
KAL 100

Initials:

Date:

Puerto Rico sample prep for Leilei

P

#	Location	Rep	Depth	Soil wt in 2M KI cup (g) 30g	Soil wt in 0.5M HCl tube (g) 5-6 g	soil wt in 0.5M NaHCO <sub>3</sub> tube (g) 1.5	Tin wt (g)	Tin + wt soil wt (g) 11g	Tin + dry soil wt (g)	Notes N-min
1	Ridge	1	0-15	30.23	5.67	1.48	1.01	12.63	7.97	30.41
2	Ridge	2	0-15	31.47	5.34	1.52	1.02	12.86	7.61	30.22
3	Ridge	3	0-15	30.73	5.67	1.61	1.02	12.75	7.07	30.28
4	Ridge	4	0-15	30.04	5.66	1.64	1.00	12.27	7.31	30.11
5	Ridge	5	0-15	30.26	5.80	1.59	0.96	11.45	6.93	30.61
6	Ridge	6	0-15	31.02	5.38	1.63	1.01	11.38	7.27	31.09
7	Ridge	1	15-30	31.80	7.52	1.61	0.98	11.30	7.53	31.83
8	Ridge	2	15-30	30.41	5.58	1.63	1.00	11.73	7.88	30.21
9	Ridge	3	15-30	30.15	5.65	1.69	1.00	11.65	7.78	30.15
10	Ridge	4	15-30	30.43	6.80	1.62	1.02	11.76	7.92	30.57
11	Ridge	5	15-30	31.85	7.18	1.68	0.99	11.32	7.56	30.28
12	Ridge	6	15-30	30.39	5.21	1.53	1.01	11.49	7.78	30.71
13	Slope	1	0-15						8.02	
14	Slope	2	0-15						6.59	
15	Slope	3	0-15	31.26	5.04	1.52	1.00	11.67	6.09	30.28
16	Slope	4	0-15	30.03	5.01	1.63	1.00	11.05	6.16	30.58
17	Slope	5	0-15	30.14	5.36	1.58	1.02	11.49	6.49	30.77
18	Slope	6	0-15	30.42	5.34	1.57	0.99	11.85	6.84	30.38
19	Slope	1	15-30	30.05	5.18	1.57	1.00	11.18	7.20	30.99
20	Slope	2	15-30	30.14	5.17	1.59	1.02	11.90	6.96	30.49
21	Slope	3	15-30	31.76	5.60	1.66	0.99	11.32	7.09	30.70
22	Slope	4	15-30	30.78	5.26	1.56	1.01	11.52	7.35	30.34
23	Slope	5	15-30	30.61	5.41	1.52	1.03	11.68	7.47	30.94
24	Slope	6	15-30	30.13	5.27	1.55	1.02	11.35	6.89	30.62
25	Valley	1	0-15						6.30	
26	Valley	2	0-15						7.57	
27	Valley	3	0-15						6.03	

Initials:  
Date:

35g dwt  
15.5-16.5g (wet)  
15g (dry)

Puerto Rico sample prep for Leilei

#	Location	Rep	Depth	Soil wt in 2M KI cup (g)	Soil wt in 0.5M HCl tube (g)	soil wt in 0.5M NaHCO <sub>3</sub> tube (g)	Tin wt (g)	Tin + wt soil (g)	Tin + dry soil wt (g)	Notes
28	Valley	4	0-15	(30g soil)					7.25	
29	Valley	5	0-15						6.75	
30	Valley	6	0-15						6.40	
31	Valley	1	15-30						9.68	
32	Valley	2	15-30						9.35	
33	Valley	3	15-30						7.11	
34	Valley	4	15-30						7.05	
35	Valley	5	15-30						8.15	
36	Valley	6	15-30	30.07	5.07	1.58	1.04	11.73	7.33	30.48
	Blank	1								
	Blank	2								

Hey Omar!  
Leilei emailed  
me asking about  
these - I scanned  
them and emailed  
them to him and  
he said to pass on  
to you from  
there.

missing

ET KCl extract, weigh ~30g (add water, do put in more soil?)  
pml 30g

Initials:

Date:

Puerto Rico sample prep for Leilei

30g

#	Location	Rep	Depth	Soil wt in 2M KI cup (g) 30g	Soil wt in 0.5M HCl tube (g) 5-6	soil wt in 0.5M NaHCO <sub>3</sub> tube (g) 1.5	Tin wt (g)	Tin + wt soil wt (g) 11	Tin + dry soil wt (g)	Notes
1	Ridge	1	0-15							t = 7
2	Ridge	2	0-15							NaOH
3	Ridge	3	0-15							
4	Ridge	4	0-15							
5	Ridge	5	0-15							
6	Ridge	6	0-15							
7	Ridge	1	15-30							
8	Ridge	2	15-30							
9	Ridge	3	15-30							
10	Ridge	4	15-30							
11	Ridge	5	15-30							
12	Ridge	6	15-30							
13	<del>Valley</del> Slope	1	0-15	30.35	5.63	1.59	1.01	11.93		30.33
14	Slope	2	0-15	30.04	5.04	1.52	1.00	11.91		29.92
15	Slope	3	0-15							
16	Slope	4	0-15							
17	Slope	5	0-15							
18	Slope	6	0-15							
19	Slope	1	15-30							
20	Slope	2	15-30							
21	Slope	3	15-30							
22	Slope	4	15-30							
23	Slope	5	15-30							
24	Slope	6	15-30							
25	<del>Valley</del>	1	0-15	30.17	5.30	1.53	1.01	16.06		30.30
26	Valley	2	0-15	30.33	5.54	1.55	1.03	14.12		30.18
27	Valley	3	0-15	30.48	5.05	1.56	1.00	11.23		30.12

slope

Initials:  
Date:

Puerto Rico sample prep for Leilei

#	Location	Rep	Depth	Soil wt in 2M KI cup (g)	Soil wt in 0.5M HCl tube (g)	soil wt in 0.5M NaHCO <sub>3</sub> tube (g) 1.5	Tin wt (g)	Tin + wt soil wt (g)	Tin + dry soil wt (g)	t = 7 Notes N-mL
28	Valley	4	0-15	30.07	5.18	1.54	1.01	12.79		30.15
29	Valley	5	0-15	30.08	5.82	1.55	1.03	12.36		30.16
30	Valley	6	0-15	30.20	5.81	1.51	.99	12.04		30.10
31	Valley	1	15-30	30.24	5.27	1.59	1.03	16.11		30.15
32	Valley	2	15-30	30.08	5.86	1.54	1.04	16.28		30.08
33	Valley	3	15-30	30.12	5.15	1.59	1.05	12.54		30.31
34	Valley	4	15-30	30.14	5.38	1.52	1.00	11.25		30.10
35	Valley	5	15-30	29.94	5.40	1.48	1.03	13.74		30.17
36	Valley	6	15-30							
	Blank	1								
	Blank	2								



Initials:  
Date:

7:10 P. shag

Puerto Rico sample prep for Leilei

#	Location	Rep	Depth	soil wt in pH vial added (g)	DI in pH vial added (g)	Time DI +	pH	time pH read	Notes
1	Ridge	1	0-15	5.46	5m	2:09	4.30	2:19	
2	Ridge	2	0-15			2:10	4.24	2:20	
3	Ridge	3	0-15			2:11	4.74	2:22	
4	Ridge	4	0-15			2:12	4.67	2:23	
5	Ridge	5	0-15			2:13	4.69	2:24	
6	Ridge	6	0-15			2:14	4.58	2:26	
7	Ridge	1	15-30			2:27	4.74	2:30	
8	Ridge	2	15-30			2:41	4.70	2:51	
9	Ridge	3	15-30			2:47	4.78	2:57	
10	Ridge	4	15-30			3:25	4.45	3:35	
11	Ridge	5	15-30			3:40	4.95	3:50	
12	Ridge	6	15-30			3:43	4.85	3:53	
13	Slope	1	0-15	5.16		2:15	4.75	2:29	
14	Slope	2	0-15	5.31		4:33	4.73	4:43	
15	Slope	3	0-15			4:15	4.95	4:25	
16	Slope	4	0-15			4:17	4.88	4:27	
17	Slope	5	0-15			4:35	4.97	4:45	
18	Slope	6	0-15			6:20	5.13	6:30	
19	Slope	1	15-30			6:38	4.89	6:48	
20	Slope	2	15-30			6:46	4.95	6:46	
21	Slope	3	15-30			6:21	5.12	6:31	
22	Slope	4	15-30			6:19	4.89	6:29	
23	Slope	5	15-30			6:57	5.16	6:47	
24	Slope	6	15-30			6:35	5.22	6:45	
25	Valley	1	0-15	5.01		3:04	6.30	3:14	
26	Valley	2	0-15	5.08		3:01	5.86	3:11	
27	Valley	3	0-15	5.12		2:59	6.01	3:09	

Initials:  
Date:

Puerto Rico sample prep for Leilei

#	Location	Rep	Depth	soil wt in pH vial added (g)	DI in pH vial added (g)	Time DI +	pH	time pH read	Notes
28	Valley	4	0-15	5.05		3:22	6.37	3:32	
29	Valley	5	0-15	5.12		3:31	6.12	3:41	
30	Valley	6	0-15	5.11		3:48	6.08	3:58	
31	Valley	1	15-30	5.05		4:00	6.09	4:10	
32	Valley	2	15-30	5.13		4:10	6.30	4:20	
33	Valley	3	15-30	5.11		4:18	5.24	4:27	
34	Valley	4	15-30	4.93		6:19	5.68	6:29	
35	Valley	5	15-30	5.28		6:39	5.82	6:49	
36	Valley	6	15-30			6:34	5.88	6:44	
	Blank	1							
	Blank	2							

Initials:

Date:

Puerto Rico sample prep for Leilei

#	Location	Rep	Depth	soil wt in pH vial added (g) 5g	DI in pH vial added (g) 5g	Time DI +	pH	time pH read	Notes T7 Weight
1	Ridge	1	0-15	4.96					27.65
2	Ridge	2	0-15	5.01					27.84
3	Ridge	3	0-15	5.14					27.88
4	Ridge	4	0-15	5.24					27.51
5	Ridge	5	0-15	5.05					27.93
6	Ridge	6	0-15	5.11					28.06
7	Ridge	1	15-30	5.52					29.29
8	Ridge	2	15-30	5.25					28.05
9	Ridge	3	15-30	5.30					26.97
10	Ridge	4	15-30	5.33					26.97
11	Ridge	5	15-30	5.71					26.43
12	Ridge	6	15-30	5.40					26.99
13	Slope	1	0-15	<del>5.22</del>					28.13
14	Slope	2	0-15	<del>5.22</del>					27.83
15	Slope	3	0-15	5.62					23.94
16	Slope	4	0-15	5.43					18.62
17	Slope	5	0-15	5.76					26.64
18	Slope	6	0-15	4.99					27.24
19	Slope	1	15-30	5.25					28.06
20	Slope	2	15-30	5.24					27.44
21	Slope	3	15-30	5.35					28.61
22	Slope	4	15-30	5.04					27.46
23	Slope	5	15-30	5.06					27.71
24	Slope	6	15-30	5.43					26.78
25	Valley	1	0-15						28.06
26	Valley	2	0-15						26.37
27	Valley	3	0-15						25.40

Initials:  
Date:

Puerto Rico sample prep for Leliei

#	Location	Rep	Depth	soil wt in pH vial added (g)	DI in pH vial added (g)	Time DI +	pH	time pH read	Notes
28	Valley	4	0-15						27.19
29	Valley	5	0-15						23.72
30	Valley	6	0-15						27.48
31	Valley	1	15-30						22.70
32	Valley	2	15-30						22.51
33	Valley	3	15-30						27.60
34	Valley	4	15-30						26.76
35	Valley	5	15-30						27.02
36	Valley	6	15-30	5.10					27.24
	Blank	1							
	Blank	2							