



Client: Las Vegas Country Club
Summer 2023 Report

	<u>6/17/22</u>	<u>6/15/23</u>
Humidity/Air Temperature	5%/104°	24%/95°
Greens Temperature	n/r	(avg) 75.6°
Fairway Temperature	n/r	(avg) 77.4°

WATER	Acceptable Range For Water Sample	Hole #6 6/17/22	Hole # 6/15/23
EC	<2.25 mmhos/cm	0.68	0.72
Sodium		14.75	19.17
Calcium	20 - 60 ppm	68.75	75.46
Magnesium	10 - 25 ppm	37.98	42.58
Potassium	5 - 20 ppm	2.60	4.15
Sulfur	30 - 90 ppm	159.51	193.15
Bicarbonate	<120 ppm	241.89	221.52
Boron	<0.67 ppm	0.08	0.08
Chloride	<177 ppm	21.79	24.68

	Original (7-2009)	Below 3" (12-2022)	TLC-1 (3-2023)	ProTour (6-2023)	USGA Recommendations
Silt and Clay	2.04	2.70	2.00	2.20	<= 8.0%
Sand	97.84	97.30	97.90	97.80	94 - 100%
Gravel	0.12	0.00	0.10	0.00	
Organic Material	0.79	0.47	0.21	0.18	
<u>Sieve #:</u>					
Fine Gravel 10	0.12	0.00	0.10	0.00	2.0mm <= 3.0%
Very Coarse Sand 18	9.58	12.40	9.30	7.40	2.0mm + 1.0mm <= 10%
Coarse Sand 35	36.33	34.50	38.10	46.90	
Medium Sand 60	35.26	31.40	30.90	39.50	0.5mm + 0.25mm >= 60%
Fine Sand 100	13.68	12.50	11.50	2.20	0.15mm <= 20%
Very Fine Sand 140	2.62	5.10	5.40	0.80	0.106mm + 0.053mm <= 5.0%
Very Fine Sand 270	0.37	1.30	2.70	1.00	
Coefficient of Uniformity	n/r	3.83	4.01	2.38	1.8 to 3.5 for peat and sand mix

TEES	Acceptable Range For Alkaline Soils Sample	4,13(avg) 7/27/20	4,13(avg) 6/15/23
Organic Matter (Humus)	2 - 3%	2.80	3.82
Sulfur	12 - 16 ppm	345.00	2,963.50
Olsen - Phosphorus	13 - 20 ppm	15.50	22.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	4,175.00	11,974.00
Magnesium	>7% base saturation or at least 200 lbs/acre	20.75%/761	11.76%/1,040
Potassium - TEC of 0 - 35	100 ppm	240.50	244.00
Manganese	>50 ppm	28.50	24.50

FAIRWAYS	Acceptable Range For Alkaline Soils Sample	4,13(avg) 7/27/20	4,13(avg) 6/15/23
Organic Matter (Humus)	2 - 3%	5.62	4.21
Sulfur	12 - 16 ppm	4,648.00	715.00
Olsen - Phosphorus	13 - 20 ppm	33.50	26.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	15,227.00	5,987.00
Magnesium	>7% base saturation or at least 200 lbs/acre	12.57%/1,266	22.05%/1,192
Potassium - TEC of 0 - 35	100 ppm	276.00	268.00
Manganese	>50 ppm	24.50	26.50

GREENS	Acceptable Range For Alkaline Soils Sample	4,13(avg) 7/27/20	4,13(avg) 6/15/23
Organic Matter (Humus)	2 - 3%	0.88	1.28
Sulfur	12 - 16 ppm	306.00	592.50
Olsen - Phosphorus	13 - 20 ppm	68.00	102.50
Calcium - TEC of 6 - 12	1,000 lbs/acre	2,843.00	4,090.00
Magnesium	>7% base saturation or at least 200 lbs/acre	17.59%/398	16.46%/544
Potassium - TEC of 0 - 35	150 ppm	85.00	216.50
Manganese	>50 ppm	47.50	74.00

TEE	Acceptable Range For Saturated Paste Sample	13 7/27/20	13 6/15/23
Nitrate -Bermudagrass	10-15 ppm	90.50	3.10
Phosphorus	2 - 10 ppm	1.20	2.49
Potassium	40 - 100 ppm	36.15	5.71
Calcium	60 - 200 ppm	136.46	27.13
Magnesium	20 - 70 ppm	72.58	14.84
Sodium	0 - 30 ppm	49.90	28.56
Soluble Salts	<1,920 ppm	909.00	233.00
Bicarbonate	<60 ppm	82.41	88.24
Chloride	<1,000 ppm	68.00	20.00
SAR	<4%	0.86	1.09

FAIRWAY	Acceptable Range For Saturated Paste Sample	13 7/27/20	13 6/15/23
Nitrate -Bermudagrass	10-15 ppm	155.70	131.00
Phosphorus	2 - 10 ppm	0.92	2.19
Potassium	40 - 100 ppm	102.57	80.72
Calcium	60 - 200 ppm	605.89	594.46
Magnesium	20 - 70 ppm	259.60	234.84
Sodium	0 - 30 ppm	112.32	133.05
Soluble Salts	<1,920 ppm	2,995.00	2,463.00
Bicarbonate	<60 ppm	82.96	115.50
Chloride	<1,000 ppm	221.00	252.00
SAR	<4%	0.96	1.17

GREENS	Acceptable Range For Saturated Paste Sample	4,13(avg) 7/27/20	4,13(avg) 6/15/23
Nitrate - Bentgrass	1-3 ppm	11.10	8.20
Phosphorus	2 - 7 ppm	1.39	1.41
Potassium	25-40 ppm	93.93	152.04
Calcium	50- 75 ppm	339.47	501.79
Magnesium	15-30 ppm	161.85	177.92
Sodium	0 - 30 ppm	71.38	73.14
Soluble Salts	<1,000 ppm	1,725.50	2,074.00
Bicarbonate	<60 ppm	128.20	126.75
Chloride	<200 ppm	103.50	71.00
SAR	<4%	0.81	0.71

Nutrient Concerns

		Ca	K	Na
TEE	4	10712	232	74
TEE	13	13236	256	99
FAIRWAY	4	8154	236	97
FAIRWAY	13	3820	300	88
GREEN	4	4148	190	55
GREEN	13	4032	243	56

No applications needed

Comments and Next Level Cultural Practices

- Using the Pro Tour sand once will not hurt the greens in anyway. I see no reason to change from the TLC-1 Product. Pro Tour Sand is coarser and may be something to consider after we talk.
- Graden or Matt-a-way Greens as weather permits
- Continue to verti-cut, groom and top-dress greens through Summer.