

MONITORAGGIO QUALITA DELLE ACQUE

TORRE PALLAVICINA - anno 2017 -

- criterio 3.2.5 ASC Freshwater trout Standard (Appendix IIB) -

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
14/07/2017	pH	INLET	SINGLE GRAB	YES	YES	7,70
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	4,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	3,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,050
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,70
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,020
	pH	OUTLET	SINGLE GRAB	YES	YES	7,65
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	4,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	6,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	13,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,030
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,10	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,01	

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
11/08/2017	pH	INLET	SINGLE GRAB	YES	YES	7,74
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	2,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	1,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,03
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,80
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	pH	OUTLET	SINGLE GRAB	YES	YES	7,62
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	12,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,03
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,40	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10	

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
15/09/2017	pH	INLET	SINGLE GRAB	YES	YES	7,72
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	2,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	1,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,60
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	pH	OUTLET	SINGLE GRAB	YES	YES	7,65
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	4,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	4,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	11,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,04
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,70	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,01	

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
13/10/2017	pH	INLET	SINGLE GRAB	YES	YES	7,70
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	1,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	1,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,80
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	pH	OUTLET	SINGLE GRAB	YES	YES	7,63
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	3,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	2,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,08
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,90	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,01	

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
16/11/2017	pH	INLET	SINGLE GRAB	YES	YES	7,69
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	5,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	2,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,05
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,49
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,08
	pH	OUTLET	SINGLE GRAB	YES	YES	7,6
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	14,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,26
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,04
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	2,46	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,08	

DATE	ANALYSIS	LOCATION	METHOD	SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
15/12/2017	pH	INLET	SINGLE GRAB	YES	YES	7,64
	SOS (mg/l)	INLET	SINGLE GRAB	YES	YES	4,00
	BOD (mg/l)	INLET	SINGLE GRAB	YES	YES	1,00
	COD (mg/l)	INLET	SINGLE GRAB	YES	YES	10,00
	N amm (mg/l)	INLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	INLET	SINGLE GRAB	YES	YES	0,02
	N nitrico (mg/l)	INLET	SINGLE GRAB	YES	YES	2,90
	P tot (mg/l)	INLET	SINGLE GRAB	YES	YES	0,01
	pH	OUTLET	SINGLE GRAB	YES	YES	7,6
	SOS (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	BOD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	5,00
	COD (mg/l)	OUTLET	SINGLE GRAB	YES	YES	12,00
	N amm (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,10
	N nitroso (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,12
N nitrico (mg/l)	OUTLET	SINGLE GRAB	YES	YES	6,20	
P tot (mg/l)	OUTLET	SINGLE GRAB	YES	YES	0,06	

SATURAZIONE MINIMA di OSSIGENO DISCIOLTO

TORRE PALLAVICINA - anno 2017 -

- criterio 3.2.2 ASC Freshwater trout Standard (Appendix IIB) -

ACQUA IN USCITA VASCHE ALLEVAMENTO

MESE	DATA RILEVAZIONE	OSSIGENO DISCIOLTO [mg/l]	TEMPERATURA	PRESSIONE [mmHg]	VALORE SATURAZIONE DI O ₂ [mg/l]	SATURAZIONE PERCENTUALE [%]
GENNAIO				751,12		
FEBBRAIO				751,12		
MARZO				751,12		
APRILE				751,12		
MAGGIO				751,12		
GIUGNO				751,12		
LUGLIO	14/07/2017	10,1	13	751,12	10,53	95,92
AGOSTO	11/08/2017	10	13,1	751,12	10,50	95,24
SETTEMBRE	15/09/2017	10,1	12,8	751,12	10,58	95,46
OTTOBRE	13/10/2017	10,2	11,7	751,12	10,84	94,10
NOVEMBRE	16/11/2017	10,3	10,1	751,12	11,25	91,56
DICEMBRE	15/12/2017	10,4	9,7	751,12	11,35	91,63

La % di saturazione di OD (concentrazione di ossigeno disciolto; in inglese DO) è data dal rapporto, in % appunto, tra l'effettiva quantità di OD e il massimo valore possibile in funzione della temperatura e dell'altitudine.

Altitudine TORRE= 95m.

Pressione in funzione dell'altitudine: $p = 0,9877^q$; dove P=pressione in atm - q=altitudine in centinaia di metri (nel caso di TORRE q=0,95), da cui $p = 0,98831 \text{atm}$ (751,12mm di Hg)



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Lead Auditor: Emanuele Callipo – DNV GL

