

DATE	ANALYSIS	LOCATION	METHOD
21/01/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,23
YES	YES	5,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,07
YES	YES	1,40
YES	YES	0,10
YES	YES	7,18
YES	YES	10,00
YES	YES	5,00
YES	YES	7,00
YES	YES	0,10
YES	YES	0,18
YES	YES	2,10
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
18/02/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,30
YES	YES	2,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,09
YES	YES	1,10
YES	YES	0,10
YES	YES	7,25
YES	YES	11,00
YES	YES	2,00
YES	YES	6,00
YES	YES	0,10
YES	YES	0,14
YES	YES	2,20
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
17/03/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	8,10
YES	YES	4,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,70
YES	YES	0,10
YES	YES	7,48
YES	YES	24,00
YES	YES	1,00
YES	YES	9,00
YES	YES	0,30
YES	YES	0,02
YES	YES	0,70
YES	YES	0,04

DATE	ANALYSIS	LOCATION	METHOD
17/04/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	8,10
YES	YES	4,00
YES	YES	1,00
YES	YES	1,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,70
YES	YES	0,01
YES	YES	7,48
YES	YES	24,00
YES	YES	5,00
YES	YES	9,00
YES	YES	0,30
YES	YES	0,02
YES	YES	0,70
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
20/05/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
	N nitrico (mg/l)	OUTLET	SINGLE GRAB
	P tot (mg/l)	OUTLET	SINGLE GRAB

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	8,03
YES	YES	3,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,60
YES	YES	0,10
YES	YES	7,94
YES	YES	26,00
YES	YES	5,00
YES	YES	10,00
YES	YES	0,10
YES	YES	0,17
YES	YES	1,50
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
16/06/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,94
YES	YES	4,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,80
YES	YES	0,10
YES	YES	7,91
YES	YES	24,00
YES	YES	5,00
YES	YES	9,00
YES	YES	0,20
YES	YES	0,09
YES	YES	1,20
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
15/07/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,58
YES	YES	20,00
YES	YES	2,91
YES	YES	10,00
YES	YES	0,17
YES	YES	0,015
YES	YES	1,17
YES	YES	0,37*
YES	YES	7,41
YES	YES	20,00
YES	YES	4,32
YES	YES	10,00
YES	YES	1,14
YES	YES	0,017
YES	YES	1,14
YES	YES	0,37*

*P₂O₅

DATE	ANALYSIS	LOCATION	METHOD
18/08/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,89
YES	YES	5,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,60
YES	YES	0,10
YES	YES	7,85
YES	YES	19,00
YES	YES	5,00
YES	YES	7,00
YES	YES	0,20
YES	YES	0,14
YES	YES	0,90
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
23/09/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,71
YES	YES	4,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,70
YES	YES	0,10
YES	YES	7,82
YES	YES	17,00
YES	YES	5,00
YES	YES	8,00
YES	YES	0,20
YES	YES	0,16
YES	YES	1,10
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
27/10/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,90
YES	YES	2,00
YES	YES	1,00
YES	YES	1,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,60
YES	YES	0,01
YES	YES	7,6
YES	YES	21,00
YES	YES	1,00
YES	YES	7,00
YES	YES	0,20
YES	YES	0,06
YES	YES	0,90
YES	YES	0,03

DATE	ANALYSIS	LOCATION	METHOD
17/11/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,70
YES	YES	2,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,60
YES	YES	0,10
YES	YES	7,75
YES	YES	12,00
YES	YES	5,00
YES	YES	6,00
YES	YES	0,20
YES	YES	0,12
YES	YES	1,20
YES	YES	0,10

DATE	ANALYSIS	LOCATION	METHOD
15/12/2020	pH	INLET	SINGLE GRAB
	SOS (mg/l)	INLET	SINGLE GRAB
	BOD (mg/l)	INLET	SINGLE GRAB
	COD (mg/l)	INLET	SINGLE GRAB
	N amm (mg/l)	INLET	SINGLE GRAB
	N nitroso (mg/l)	INLET	SINGLE GRAB
	N nitrico (mg/l)	INLET	SINGLE GRAB
	P tot (mg/l)	INLET	SINGLE GRAB
	pH	OUTLET	SINGLE GRAB
	SOS (mg/l)	OUTLET	SINGLE GRAB
	BOD (mg/l)	OUTLET	SINGLE GRAB
	COD (mg/l)	OUTLET	SINGLE GRAB
	N amm (mg/l)	OUTLET	SINGLE GRAB
	N nitroso (mg/l)	OUTLET	SINGLE GRAB
N nitrico (mg/l)	OUTLET	SINGLE GRAB	
P tot (mg/l)	OUTLET	SINGLE GRAB	

SAMPLING BY THIRD PARTY?	ANALYSIS BY THIRD PARTY	RESULT
YES	YES	7,65
YES	YES	1,00
YES	YES	5,00
YES	YES	5,00
YES	YES	0,10
YES	YES	0,01
YES	YES	0,50
YES	YES	0,10
YES	YES	7,7
YES	YES	14,00
YES	YES	5,00
YES	YES	8,00
YES	YES	0,30
YES	YES	0,16
YES	YES	1,10
YES	YES	0,10

ACQUA IN USCITA VASC

MESE	DATA RILEVAZIONE	OSSIGENO DISCIOLTO [mg/l]	TEMPERATURA [°C]
GENNAIO	21/01/2020	10,1	8,5
FEBBRAIO	18/02/2020	9,4	10,8
MARZO	17/03/2020	9,9	8,5
APRILE	17/04/2020	9,2	11,7
MAGGIO	20/05/2020	9,4	12,2
GIUGNO	16/06/2020	9,3	12,9
LUGLIO	15/07/2020	10	14,7
AGOSTO	18/08/2020	9,1	13
SETTEMBRE	23/09/2020	9,2	12,8
OTTOBRE	27/10/2020	10,1	11,5
NOVEMBRE	17/11/2020	9,6	11,2
DICEMBRE	15/12/2020	9,9	9,9

La % di saturazione di OD (concentrazione di ossigeno disciolto; in inglese DO) è data dal rapporto, in % temperatura e dell'altitudine.

Altitudine BISELLI= 490m.

Pressione in funzione dell'altitudine: $p = 0,9877^q$; dove P=pressione in atm - q=altitudine in centinaia di

Dalla Tabella allegata si ottengono i valori di saturazione di O2

	°C	720mm	710mm
temperatura più bassa	8	11,27	11,11
temperatura più alta	9	11,01	10,85
temperatura rilevata (input)			
temperatura più bassa	9	11,01	10,85
temperatura più alta	10	10,75	10,6
temperatura rilevata (input)	9,9		
temperatura più bassa	10	10,75	10,6
temperatura più alta	11	10,51	10,36
temperatura rilevata (input)			

temperatura più bassa	11	10,51	10,36
temperatura più alta	12	10,27	10,13

**temperatura
rilevata (input)**

temperatura più bassa	12	10,27	10,13
temperatura più alta	13	10,04	9,9

**temperatura
rilevata (input)**

temperatura più bassa	13	10,04	9,9
temperatura più alta	14	9,83	9,69

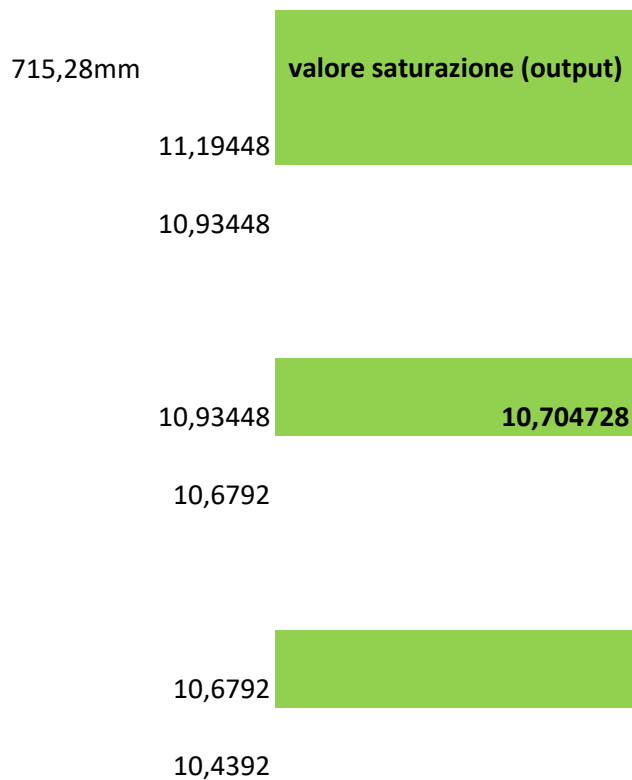
**temperatura
rilevata (input)**

HE ALLEVAMENTO

PRESSIONE [mmHg]	VALORE SATURAZIONE DI O ₂ [mg/l]	SATURAZIONE PERCENTUALE [%]
715,28	11,06	91,28
715,28	10,49	89,63
715,28	11,06	89,48
715,28	10,27	89,54
715,28	10,16	92,54
715,28	10,00	93,03
715,28	10,15	98,52
715,28	9,97	91,24
715,28	10,02	91,82
715,28	10,32	97,85
715,28	10,39	92,38
715,28	10,70	92,48

appunto, tra l'effettiva quantità di OD e il massimo valore possibile in funzione della

metri (nel caso di Biselli q=4,9), da cui p=0,9411atm (715,28mm di Hg)





10,20392



9,97392



9,76392