

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	12-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-044
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	28		Clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1012					70-500	88							
TDS (mg/l)	700-3200	701					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	180					-	18							
Mg Hardness as CaCO3(mg/l)	-	114					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.2					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



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Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	12-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-044
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	45		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	66		7-7.7	7.5							
Conductivity (µs/cm)	1000-4500	1508					70-500	136							
TDS (mg/l)	700-3200	1085					50-350	120							
Ca Hardness as CaCO3 (mg/l)	50-300	236					-	24							
Mg Hardness as CaCO3(mg/l)	-	144					-	20							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	4.1					-								
Cartidge inlet Pressure, bar	-	2.8					-								
Cartidge Outlet Pressure, bar	-	2.7					-								
High Pressure pump, bar	-	12.1					-								
Nitrate as NO3 (mg/l)	-	3.8					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



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Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	12-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-044
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	40		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1968		Vessel 3	41		70-500	118							
TDS (mg/l)	700-3200	1384		Vessel 4	44		50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	280		Vessel 5	48		-	22							
Mg Hardness as CaCO3(mg/l)	-	166		Vessel 6	50		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	51		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	65		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	70		-								
Cartidge Outlet Pressure, bar	-	2.8		Vessel 10	78		-								
High Pressure pump, bar	-	12.8		Vessel 11	77		-								
Nitrate as NO3 (mg/l)	-	3.3		Vessel 12	83		-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	12-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-044
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	46		Clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	49		7-7.7	7.4						
Conductivity (µs/cm)	1000-4500	1560		Vessel 3	47		70-500	166						
TDS (mg/l)	700-3200	1058		Vessel 4	63		50-350	148						
Ca Hardness as CaCO3 (mg/l)	50-300	236		Vessel 5	80		-	46						
Mg Hardness as CaCO3(mg/l)	-	152		Vessel 6	88		-	40						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	111		-							
Hydrex 4101, ppm as PO4	3-5	3.7					-							
Cartidge inlet Pressure, bar	-	2.9					-							
Cartidge Outlet Pressure, bar	-	2.7					-							
High Pressure pump, bar	-	13.4					-							
Nitrate as NO3 (mg/l)	-	3.8					-							
Suspended Solids (mg/l)	-	0					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	22-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-046
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

		RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	28			Clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	40			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1012						70-500	88						
TDS (mg/l)	700-3200	703						50-350	54						
Ca Hardness as CaCO3 (mg/l)	50-300	182						-	20						
Mg Hardness as CaCO3(mg/l)	-	112						-	16						
Total Iron as Fe (mg/l)	0-0.08	0.03						-							
Hydrex 4101, ppm as PO4	3-5	3.8						-							
Cartidge inlet Pressure, bar	-	1.8						-							
Cartidge Outlet Pressure, bar	-	1.6						-							
High Pressure pump, bar	-	12.2						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	2.2						-							
Suspended Solids (mg/l)	-	0						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	22-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-046
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	42			Clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	65			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1470						70-500	110						
TDS (mg/l)	700-3200	1070						50-350	75						
Ca Hardness as CaCO3 (mg/l)	50-300	230						-	22						
Mg Hardness as CaCO3(mg/l)	-	136						-	18						
Total Iron as Fe (mg/l)	0-0.08	0.02						-							
Hydrex 4101, ppm as PO4	3-5	4.7						-							
Cartidge inlet Pressure, bar	-	2.7						-							
Cartidge Outlet Pressure, bar	-	2.5						-							
High Pressure pump, bar	-	11.9						-							
Nitrate as NO3 (mg/l)	-	3.2						-							
Suspended Solids (mg/l)	-	0						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

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Project:	Al Hasa	Mobile:	545319623	Ref:	-046
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	39		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1972		Vessel 3	38		700-500	161							
TDS (mg/l)	700-3200	1390		Vessel 4	42		50-350	104							
Ca Hardness as CaCO3 (mg/l)	50-300	284		Vessel 5	45		-	28							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	48		-	22							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	52		-								
Hydrex 4101, ppm as PO4	3-5	4.5		Vessel 8	64		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	68		-								
Cartidge Outlet Pressure, bar	-	2.8		Vessel 10	76		-								
High Pressure pump, bar	-	12.7		Vessel 11	77		-								
Nitrate as NO3 (mg/l)	-	3.3		Vessel 12	85		-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



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Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	22-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-046
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	39		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	53		7-7.7	7.4							
Conductivity (µs/cm)	1000-4500	1573		Vessel 3	51		70-500	177							
TDS (mg/l)	700-3200	1070		Vessel 4	65		50-350	158							
Ca Hardness as CaCO3 (mg/l)	50-300	246		Vessel 5	84		-	60							
Mg Hardness as CaCO3(mg/l)	-	164		Vessel 6	89		-	44							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	113		-								
Hydrex 4101, ppm as PO4	3-5	3.7					-								
Cartidge inlet Pressure, bar	-	2.9					-								
Cartidge Outlet Pressure, bar	-	2.7					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	4.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Dec-2024
Project:	Al Hasa	Mobile:	5454319623	Ref:	-042
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	990					70-500	73							
TDS (mg/l)	700-3200	702					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	14							
Mg Hardness as CaCO3(mg/l)	-	78					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.1					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-	1.3					-								
Nitrate as NO3 (mg/l)	-	1					-								
Suspended Solids (mg/l)	-	Nil					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Dec-2024
Project:	Al Hasa	Mobile:	5454319623	Ref:	-042
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	37		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	43		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1514					70-500	114							
TDS (mg/l)	700-3200	1075					50-350	74							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	16							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.5					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



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Project:	Al Hasa	Mobile:	5454319623	Ref:	-042
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.1		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1410		Vessel 3	13.5		70-500	125							
TDS (mg/l)	700-3200	1383		Vessel 4	13.6		50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	188		Vessel 5	13.9		-	20							
Mg Hardness as CaCO3(mg/l)	-	164		Vessel 6	14.1		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.2		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	14.4		-								
Cartidge inlet Pressure, bar	-	2.5		Vessel 9	39		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	41		-								
High Pressure pump, bar	-	11.8		Vessel 11	45		-								
Nitrate as NO3 (mg/l)	-	2.9		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



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Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Dec-2024
Project:	Al Hasa	Mobile:	5454319623	Ref:	-042
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	101		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	103		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1486		Vessel 3	130		70-500	207							
TDS (mg/l)	700-3200	1057		Vessel 4	133		50-350	184							
Ca Hardness as CaCO3 (mg/l)	50-300	292		Vessel 5	142		-	28							
Mg Hardness as CaCO3(mg/l)	-	156		Vessel 6	143		-	20							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	150		-								
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.2					-								
Nitrate as NO3 (mg/l)	-	2.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-045
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	26		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1010					70-500	86							
TDS (mg/l)	700-3200	701					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	180					-	20							
Mg Hardness as CaCO3(mg/l)	-	112					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

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Project:	Al Hasa	Mobile:	545319623	Ref:	-045
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	41		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	63		7-7.7	71							
Conductivity (µs/cm)	1000-4500	1468					70-500	108							
TDS (mg/l)	700-3200	1068					50-350	72							
Ca Hardness as CaCO3 (mg/l)	50-300	228					-	20							
Mg Hardness as CaCO3(mg/l)	-	134					-	16							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.7					-								
Cartidge Outlet Pressure, bar	-	2.5					-								
High Pressure pump, bar	-	11.8					-								
Nitrate as NO3 (mg/l)	-	3.1					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-045
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	38		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	40		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1961		Vessel 3	38		70-500	114							
TDS (mg/l)	700-3200	1378		Vessel 4	41		50-350	74							
Ca Hardness as CaCO3 (mg/l)	50-300	276		Vessel 5	44		-	20							
Mg Hardness as CaCO3(mg/l)	-	164		Vessel 6	48		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	50		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	63		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	68		-								
Cartidge Outlet Pressure, bar	-	2.8		Vessel 10	75		-								
High Pressure pump, bar	-	12.6		Vessel 11	77		-								
Nitrate as NO3 (mg/l)	-	3.1		Vessel 12	83		-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Dec-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-045
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	48		Clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	52		7-7.7	7.4						
Conductivity (µs/cm)	1000-4500	1569		Vessel 3	49		70-500	174						
TDS (mg/l)	700-3200	1067		Vessel 4	64		50-350	155						
Ca Hardness as CaCO3 (mg/l)	50-300	242		Vessel 5	82		-	58						
Mg Hardness as CaCO3(mg/l)	-	160		Vessel 6	88		-	42						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	111		-							
Hydrex 4101, ppm as PO4	3-5	3.7					-							
Cartidge inlet Pressure, bar	-	2.9					-							
Cartidge Outlet Pressure, bar	-	2.7					-							
High Pressure pump, bar	-	13.5					-							
Nitrate as NO3 (mg/l)	-	4.2					-							
Suspended Solids (mg/l)	-	0					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1224- 10978	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	17-DEC-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.57	-	A003	
TDS	1083	mg/l	A005	
Suspended Solids	71	mg/l	A010	
Ammonia as NH4+	44	mg/l	A022	
Nitrate as NO3-	221.25	mg/l	A017	
BOD5	170.91	mg/l	A011	
COD	117	mg/l	A012	



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N.D = Non-Detected

TNTC = Too Numerous to Count

Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1224- 10978	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	17-DEC-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.80	-	A003	
TDS	1077	mg/l	A005	
Suspended Solids	36	mg/l	A010	
Ammonia as NH4+	38.25	mg/l	A022	
Nitrate as NO3-	48.2	mg/l	A017	
BOD5	128.71	mg/l	A011	
COD	49	mg/l	A012	



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Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1224- 10978	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	17-DEC-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PROD A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.18	-	A003	
TDS	583	mg/l	A005	
Suspended Solids	8	mg/l	A010	
Ammonia as NH4+	2.58	mg/l	A022	
Nitrate as NO3-	81.7	mg/l	A017	
BOD5	50.64	mg/l	A011	
COD	23.1	mg/l	A012	



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Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1224- 10978	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	17-DEC-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PROD H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.12	-	A003	
TDS	569.3	mg/l	A005	
Suspended Solids	10	mg/l	A010	
Ammonia as NH4+	2.18	mg/l	A022	
Nitrate as NO3-	79.9	mg/l	A017	
BOD5	97.06	mg/l	A011	
COD	38.1	mg/l	A012	



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FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-035
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	32		-	Clear							
pH	6-6.8	6.5		Vessel 2	43		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1510					70-500	88							
TDS (mg/l)	700-3200	1072					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	12							
Mg Hardness as CaCO3(mg/l)	-	120					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	30		-	Clear							
pH	6-6.8	6.4		Vessel 2	40		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1545					70-500	72							
TDS (mg/l)	700-3200	1100					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	12							
Mg Hardness as CaCO3(mg/l)	-	134					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-037
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	31		-	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1534					70-500	75							
TDS (mg/l)	700-3200	1090					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	12							
Mg Hardness as CaCO3(mg/l)	-	128					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-038
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	32		-	Clear							
pH	6-6.8	6.5		Vessel 2	44		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1536					70-500	78							
TDS (mg/l)	700-3200	1090					50-350	52							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	12							
Mg Hardness as CaCO3(mg/l)	-	128					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.2					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-035
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	31		clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	43		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	990					70-500	98							
TDS (mg/l)	700-3200	710					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	12							
Mg Hardness as CaCO3(mg/l)	-	80					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-035
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1480					70-500	110							
TDS (mg/l)	700-3200	1050					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	12							
Mg Hardness as CaCO3(mg/l)	-	78					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-035
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1850		Vessel 3	13.2		70-500	75						
TDS (mg/l)	700-3200	1335		Vessel 4	13.3		50-350	50						
Ca Hardness as CaCO3 (mg/l)	50-300	162		Vessel 5	13.5		-	12						
Mg Hardness as CaCO3(mg/l)	-	144		Vessel 6	14.1		-	10						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	14.2		-	0						
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.6		-							
Cartidge inlet Pressure, bar	-	2.5		Vessel 9	44		-							
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	42		-							
High Pressure pump, bar	-	11.1		Vessel 11	50		-							
Nitrate as NO3 (mg/l)	-	1.1		Vessel 12	53		-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	-	Nil					-							
Total Count Bacteria (CFU/ml)	-	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-035
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1462		Vessel 3	117		70-500	122						
TDS (mg/l)	700-3200	1035		Vessel 4	125		50-350	80						
Ca Hardness as CaCO3 (mg/l)	50-300	274		Vessel 5	134		-	12						
Mg Hardness as CaCO3(mg/l)	-	144		Vessel 6	140		-	10						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	143		-	0						
Hydrex 4101, ppm as PO4	3-5	4.6					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.8					-							
Nitrate as NO3 (mg/l)	-	2.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	992					70-500	78							
TDS (mg/l)	700-3200	710					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	12							
Mg Hardness as CaCO3(mg/l)	-	82					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.6					-								
Nitrate as NO3 (mg/l)	-	1.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1472					70-500	128							
TDS (mg/l)	700-3200	1044					50-350	82							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	14							
Mg Hardness as CaCO3(mg/l)	-	72					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.3					-								
Nitrate as NO3 (mg/l)	-	1.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	13.2		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1860		Vessel 3	13.1		70-500	73							
TDS (mg/l)	700-3200	1345		Vessel 4	13.4		50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	168		Vessel 5	13.2		-	12							
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	14.2		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.3		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.4		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	42		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	45		-								
High Pressure pump, bar	-	11.2		Vessel 11	50		-								
Nitrate as NO3 (mg/l)	-	1.3		Vessel 12	51		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1466		Vessel 3	115		70-500	109						
TDS (mg/l)	700-3200	1040		Vessel 4	122		50-350	70						
Ca Hardness as CaCO3 (mg/l)	50-300	276		Vessel 5	131		-	12						
Mg Hardness as CaCO3(mg/l)	-	144		Vessel 6	136		-	10						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	140		-	0						
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.5					-							
Nitrate as NO3 (mg/l)	-	2.4					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	41		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	995					70-500	100							
TDS (mg/l)	700-3200	711					50-350	64							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	16							
Mg Hardness as CaCO3(mg/l)	-	82					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1470					70-500	122							
TDS (mg/l)	700-3200	1040					50-350	78							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	14							
Mg Hardness as CaCO3(mg/l)	-	70					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.3					-								
Nitrate as NO3 (mg/l)	-	1.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1868		Vessel 3	13.3		70-500	75							
TDS (mg/l)	700-3200	1351		Vessel 4	13.5		50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	170		Vessel 5	13.4		-	12							
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	14.1		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.4		-								
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.2		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	40		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	43		-								
High Pressure pump, bar	-	11.5		Vessel 11	48		-								
Nitrate as NO3 (mg/l)	-	1.6		Vessel 12	50		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1450		Vessel 3	118		70-500	135						
TDS (mg/l)	700-3200	1027		Vessel 4	126		50-350	88						
Ca Hardness as CaCO3 (mg/l)	50-300	270		Vessel 5	134		-	16						
Mg Hardness as CaCO3(mg/l)	-	140		Vessel 6	139		-	12						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	144		-							
Hydrex 4101, ppm as PO4	3-5	4.4					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.2					-							
Nitrate as NO3 (mg/l)	-	2.2					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	31		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	40		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1003					70-500	97							
TDS (mg/l)	700-3200	714					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	148					-	16							
Mg Hardness as CaCO3(mg/l)	-	82					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.8					-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1479					70-500	121							
TDS (mg/l)	700-3200	1045					50-350	78							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	14							
Mg Hardness as CaCO3(mg/l)	-	72					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.2					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1895		Vessel 3	13.5		70-500	75						
TDS (mg/l)	700-3200	1370		Vessel 4	13.2		50-350	50						
Ca Hardness as CaCO3 (mg/l)	50-300	178		Vessel 5	13.6		-	14						
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.1		-	12						
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.2		-							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.1		-							
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	38		-							
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	41		-							
High Pressure pump, bar	-	11.7		Vessel 11	45		-							
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	52		-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	-	Nil					-							
Total Count Bacteria (CFU/ml)	-	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Oct-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1465		Vessel 3	124		70-500	143						
TDS (mg/l)	700-3200	1040		Vessel 4	130		50-350	92						
Ca Hardness as CaCO3 (mg/l)	50-300	280		Vessel 5	136		-	20						
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	142		-	14						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	147		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.3					-							
Nitrate as NO3 (mg/l)	-	2.5					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 27.10.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.12	6.88	#VALUE!
2	BOD	26	4.32	mg/l
3	COD	131	21.00	mg/l
4	TDS	1488	705	mg/l
5	Ammonia as NH ₄ ⁺	22.03	2.3	mg/l
6	Nitrate as NO ₃ ⁻	20.87	6.98	mg/l
7	Total Phosphate as PO ₄	6.20	1.20	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.72	mg/l
10	TOTAL NITROGEN (TN)	19.38	2.83	mg/l
11	Total Suspended Solids	28	2	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 27.10.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.88	6.71	#VALUE!
2	BOD	21.00	3	mg/l
3	COD	88	13	mg/l
4	TDS	1428	603	mg/l
5	Ammonia as NH ⁺	18	0.21	mg/l
6	Nitrate as NO ₃ ⁻	33	8.00	mg/l
7	Total Phosphate as PO ₄	11	3.6	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.78	mg/l
10	TOTAL NITROGEN (TN)	27.28	9.55	mg/l
11	Total Suspended Solids	11	1	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-038
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	34		-	Clear							
pH	6-6.8	6.5		Vessel 2	46		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1360					70-500	83							
TDS (mg/l)	700-3200	960					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	16							
Mg Hardness as CaCO3(mg/l)	-	120					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-041
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	36		-	Clear							
pH	6-6.8	6.5		Vessel 2	48		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1480					70-500	86							
TDS (mg/l)	700-3200	1050					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	18							
Mg Hardness as CaCO3(mg/l)	-	126					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.6					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.4					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

RO: Parameters are within limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-043
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	22		-	Clear							
pH	6-6.8	6.5		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1440					70-500	84							
TDS (mg/l)	700-3200	1019					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	176					-	18							
Mg Hardness as CaCO3(mg/l)	-	140					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	13.9					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-038
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	34		-	Clear							
pH	6-6.8	6.4		Vessel 2	46		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1548					70-500	90							
TDS (mg/l)	700-3200	1102					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	16							
Mg Hardness as CaCO3(mg/l)	-	130					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.4							
Conductivity (µs/cm)	1000-4500	997					70-500	93							
TDS (mg/l)	700-3200	705					50-350	60							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	14							
Mg Hardness as CaCO3(mg/l)	-	80					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	3.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.6					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1512					70-500	116							
TDS (mg/l)	700-3200	1072					50-350	75							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1900		Vessel 3	14.2		70-500	125							
TDS (mg/l)	700-3200	1376		Vessel 4	13.9		50-350	80							
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	14.2		-	20							
Mg Hardness as CaCO3(mg/l)	-	160		Vessel 6	14.3		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.3		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	14.5		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	42		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	44		-								
High Pressure pump, bar	-	11.7		Vessel 11	47		-								
Nitrate as NO3 (mg/l)	-	2.3		Vessel 12	55		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1472		Vessel 3	126		70-500	151						
TDS (mg/l)	700-3200	1046		Vessel 4	132		50-350	100						
Ca Hardness as CaCO3 (mg/l)	50-300	286		Vessel 5	140		-	22						
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	141		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	147		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.2					-							
Nitrate as NO3 (mg/l)	-	2.4					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.3						
Conductivity (µs/cm)	1000-4500	994					70-500	48						
TDS (mg/l)	700-3200	703					50-350	55						
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	14						
Mg Hardness as CaCO3(mg/l)	-	78					-	12						
Total Iron as Fe (mg/l)	0-0.08	0.02					-							
Hydrex 4101, ppm as PO4	3-5	3.8					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2					-							
High Pressure pump, bar	-	9.6					-							
Nitrate as NO3 (mg/l)	-	1.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	-	Nil					-							
Total Count Bacteria (CFU/ml)	-	Nil												

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	112							
TDS (mg/l)	700-3200	1070					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	14							
Mg Hardness as CaCO3(mg/l)	-	75					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1893		Vessel 3	13.8		70-500	122							
TDS (mg/l)	700-3200	1374		Vessel 4	13.7		50-350	76							
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	14.1		-	20							
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.2		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.4		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	14.5		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	41		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	42		-								
High Pressure pump, bar	-	11.6		Vessel 11	45		-								
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1480		Vessel 3	130		70-500	201						
TDS (mg/l)	700-3200	1052		Vessel 4	134		50-350	182						
Ca Hardness as CaCO3 (mg/l)	50-300	290		Vessel 5	142		-	28						
Mg Hardness as CaCO3(mg/l)	-	154		Vessel 6	143		-	20						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.3					-							
Nitrate as NO3 (mg/l)	-	2.7					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	40		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1001					70-500	90							
TDS (mg/l)	700-3200	707					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	14							
Mg Hardness as CaCO3(mg/l)	-	82					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04					-								
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1514					70-500	119							
TDS (mg/l)	700-3200	1076					50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1898		Vessel 3	13.8		70-500	85							
TDS (mg/l)	700-3200	1372		Vessel 4	13.3		50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	178		Vessel 5	14.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.2		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.3		-								
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.1		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	40		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	43		-								
High Pressure pump, bar	-	11.8		Vessel 11	45		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1477		Vessel 3	128		70-500	155						
TDS (mg/l)	700-3200	1050		Vessel 4	134		50-350	101						
Ca Hardness as CaCO3 (mg/l)	50-300	288		Vessel 5	140		-	22						
Mg Hardness as CaCO3(mg/l)	-	152		Vessel 6	143		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	149		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.4					-							
Nitrate as NO3 (mg/l)	-	2.8					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	996					70-500	106							
TDS (mg/l)	700-3200	710					50-350	68							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	18							
Mg Hardness as CaCO3(mg/l)	-	80					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	114							
TDS (mg/l)	700-3200	1070					50-350	73							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	9.3					-								
Nitrate as NO3 (mg/l)	-	1.8					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1900		Vessel 3	13.8		70-500	78							
TDS (mg/l)	700-3200	1376		Vessel 4	13.6		50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	13.6		-	14							
Mg Hardness as CaCO3(mg/l)	-	162		Vessel 6	14.3		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.5		-								
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.1		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	40		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	42		-								
High Pressure pump, bar	-	11.8		Vessel 11	46		-								
Nitrate as NO3 (mg/l)	-	2.3		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	109		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	110		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	2075		Vessel 3	135		70-500	263						
TDS (mg/l)	700-3200	1513		Vessel 4	139		50-350	175						
Ca Hardness as CaCO3 (mg/l)	50-300	296		Vessel 5	150		-	38						
Mg Hardness as CaCO3(mg/l)	-	156		Vessel 6	154		-	24						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	160		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.7					-							
Cartidge Outlet Pressure, bar	-	2.3					-							
High Pressure pump, bar	-	13.7					-							
Nitrate as NO3 (mg/l)	-	2.9					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.89	-	A003	
TDS	1039	mg/l	A005	
Suspended Solids	35	mg/l	A010	
Ammonia as NH4+	35.375	mg/l	A022	
Nitrate as NO3-	223.75	mg/l	A017	
BOD5	91.2	mg/l	A011	
COD	149.81	mg/l	A012	



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TNTC = Too Numerous to Count

Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PRODUCT A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.60	-	A003	
TDS	468.3	mg/l	A005	
Suspended Solids	6	mg/l	A010	
Ammonia as NH4+	7.75	mg/l	A022	
Nitrate as NO3-	26.8	mg/l	A017	
BOD5	39.4	mg/l	A011	
COD	90.73	mg/l	A012	



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Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.86	-	A003	
TDS	1031	mg/l	A005	
Suspended Solids	31	mg/l	A010	
Ammonia as NH4+	39.625	mg/l	A022	
Nitrate as NO3-	117	mg/l	A017	
BOD5	35.87	mg/l	A011	
COD	108	mg/l	A012	



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Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PRODUCT H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.62	-	A003	
TDS	509.2	mg/l	A005	
Suspended Solids	4	mg/l	A010	
Ammonia as NH4+	8.5	mg/l	A022	
Nitrate as NO3-	32.3	mg/l	A017	
BOD5	29.54	mg/l	A011	
COD	45.3	mg/l	A012	



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FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-038
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	34		-	Clear							
pH	6-6.8	6.5		Vessel 2	46		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1360					70-500	83							
TDS (mg/l)	700-3200	960					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	16							
Mg Hardness as CaCO3(mg/l)	-	120					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-041
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	36		-	Clear							
pH	6-6.8	6.5		Vessel 2	48		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1480					70-500	86							
TDS (mg/l)	700-3200	1050					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	18							
Mg Hardness as CaCO3(mg/l)	-	126					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.6					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.4					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

RO: Parameters are within limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-043
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	22		-	Clear							
pH	6-6.8	6.5		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1440					70-500	84							
TDS (mg/l)	700-3200	1019					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	176					-	18							
Mg Hardness as CaCO3(mg/l)	-	140					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	13.9					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-038
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	34		-	Clear							
pH	6-6.8	6.4		Vessel 2	46		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1548					70-500	90							
TDS (mg/l)	700-3200	1102					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	16							
Mg Hardness as CaCO3(mg/l)	-	130					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.4							
Conductivity (µs/cm)	1000-4500	997					70-500	93							
TDS (mg/l)	700-3200	705					50-350	60							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	14							
Mg Hardness as CaCO3(mg/l)	-	80					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	3.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.6					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1512					70-500	116							
TDS (mg/l)	700-3200	1072					50-350	75							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1900		Vessel 3	14.2		70-500	125							
TDS (mg/l)	700-3200	1376		Vessel 4	13.9		50-350	80							
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	14.2		-	20							
Mg Hardness as CaCO3(mg/l)	-	160		Vessel 6	14.3		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.3		-								
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	14.5		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	42		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	44		-								
High Pressure pump, bar	-	11.7		Vessel 11	47		-								
Nitrate as NO3 (mg/l)	-	2.3		Vessel 12	55		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	17-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1472		Vessel 3	126		70-500	151						
TDS (mg/l)	700-3200	1046		Vessel 4	132		50-350	100						
Ca Hardness as CaCO3 (mg/l)	50-300	286		Vessel 5	140		-	22						
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	141		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	147		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.2					-							
Nitrate as NO3 (mg/l)	-	2.4					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	41		7-7.7	7.3						
Conductivity (µs/cm)	1000-4500	994					70-500	48						
TDS (mg/l)	700-3200	703					50-350	55						
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	14						
Mg Hardness as CaCO3(mg/l)	-	78					-	12						
Total Iron as Fe (mg/l)	0-0.08	0.02					-							
Hydrex 4101, ppm as PO4	3-5	3.8					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2					-							
High Pressure pump, bar	-	9.6					-							
Nitrate as NO3 (mg/l)	-	1.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	-	Nil					-							
Total Count Bacteria (CFU/ml)	-	Nil												

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	112							
TDS (mg/l)	700-3200	1070					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	14							
Mg Hardness as CaCO3(mg/l)	-	75					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1893		Vessel 3	13.8		70-500	122						
TDS (mg/l)	700-3200	1374		Vessel 4	13.7		50-350	76						
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	14.1		-	20						
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.2		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.4		-							
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	14.5		-							
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	41		-							
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	42		-							
High Pressure pump, bar	-	11.6		Vessel 11	45		-							
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	53		-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	-	Nil					-							
Total Count Bacteria (CFU/ml)	-	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	24-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1480		Vessel 3	130		70-500	201						
TDS (mg/l)	700-3200	1052		Vessel 4	134		50-350	182						
Ca Hardness as CaCO3 (mg/l)	50-300	290		Vessel 5	142		-	28						
Mg Hardness as CaCO3(mg/l)	-	154		Vessel 6	143		-	20						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.3					-							
Nitrate as NO3 (mg/l)	-	2.7					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	40		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1001					70-500	90							
TDS (mg/l)	700-3200	707					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	14							
Mg Hardness as CaCO3(mg/l)	-	82					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04					-								
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1514					70-500	119							
TDS (mg/l)	700-3200	1076					50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.4					-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1898		Vessel 3	13.8		70-500	85							
TDS (mg/l)	700-3200	1372		Vessel 4	13.3		50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	178		Vessel 5	14.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.2		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.3		-								
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.1		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	40		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	43		-								
High Pressure pump, bar	-	11.8		Vessel 11	45		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	102		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1477		Vessel 3	128		70-500	155						
TDS (mg/l)	700-3200	1050		Vessel 4	134		50-350	101						
Ca Hardness as CaCO3 (mg/l)	50-300	288		Vessel 5	140		-	22						
Mg Hardness as CaCO3(mg/l)	-	152		Vessel 6	143		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	149		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.4					-							
Nitrate as NO3 (mg/l)	-	2.8					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	996					70-500	106							
TDS (mg/l)	700-3200	710					50-350	68							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	18							
Mg Hardness as CaCO3(mg/l)	-	80					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.03					-								
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	114							
TDS (mg/l)	700-3200	1070					50-350	73							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	14							
Mg Hardness as CaCO3(mg/l)	-	76					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02					-								
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	9.3					-								
Nitrate as NO3 (mg/l)	-	1.8					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	13.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1900		Vessel 3	13.8		70-500	78							
TDS (mg/l)	700-3200	1376		Vessel 4	13.6		50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	180		Vessel 5	13.6		-	14							
Mg Hardness as CaCO3(mg/l)	-	162		Vessel 6	14.3		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.5		-								
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.1		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	40		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	42		-								
High Pressure pump, bar	-	11.8		Vessel 11	46		-								
Nitrate as NO3 (mg/l)	-	2.3		Vessel 12	53		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Nov-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-036
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	109		clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	110		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	2075		Vessel 3	135		70-500	263						
TDS (mg/l)	700-3200	1513		Vessel 4	139		50-350	175						
Ca Hardness as CaCO3 (mg/l)	50-300	296		Vessel 5	150		-	38						
Mg Hardness as CaCO3(mg/l)	-	156		Vessel 6	154		-	24						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	160		-							
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.7					-							
Cartidge Outlet Pressure, bar	-	2.3					-							
High Pressure pump, bar	-	13.7					-							
Nitrate as NO3 (mg/l)	-	2.9					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.89	-	A003	
TDS	1039	mg/l	A005	
Suspended Solids	35	mg/l	A010	
Ammonia as NH4+	35.375	mg/l	A022	
Nitrate as NO3-	223.75	mg/l	A017	
BOD5	91.2	mg/l	A011	
COD	149.81	mg/l	A012	



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N.D = Non-Detected

TNTC = Too Numerous to Count

Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PRODUCT A				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.60	-	A003	
TDS	468.3	mg/l	A005	
Suspended Solids	6	mg/l	A010	
Ammonia as NH4+	7.75	mg/l	A022	
Nitrate as NO3-	26.8	mg/l	A017	
BOD5	39.4	mg/l	A011	
COD	90.73	mg/l	A012	



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Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

FEED H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.86	-	A003	
TDS	1031	mg/l	A005	
Suspended Solids	31	mg/l	A010	
Ammonia as NH4+	39.625	mg/l	A022	
Nitrate as NO3-	117	mg/l	A017	
BOD5	35.87	mg/l	A011	
COD	108	mg/l	A012	



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Is certified by Bureau Veritas

N.D = Non-Detected

TNTC = Too Numerous to Count

Note: This is a computer-generated document. No signature is required

Client Name:	JASH	Site Name:	KFU
Request ID:	01-LR-1124- 10898	Requested By:	HAMZA MOHAMMAD HAYANI
Date Received:		Closed On:	27-NOV-24
Laboratory:	Dammam	Chemist:	LAB DAMMAM

PRODUCT H				
Parameter Name	Result	UOM	Ref	CTRL Limit
pH	6.62	-	A003	
TDS	509.2	mg/l	A005	
Suspended Solids	4	mg/l	A010	
Ammonia as NH4+	8.5	mg/l	A022	
Nitrate as NO3-	32.3	mg/l	A017	
BOD5	29.54	mg/l	A011	
COD	45.3	mg/l	A012	



The QHSE Management System
Is certified by Bureau Veritas

N.D = Non-Detected

TNTC = Too Numerous to Count

Note: This is a computer-generated document. No signature is required

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-027
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	32		-	Clear							
pH	6-6.8	6.3		Vessel 2	42		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1660					70-500	91							
TDS (mg/l)	700-3200	1186					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	162					-	8							
Mg Hardness as CaCO3(mg/l)	-	126					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-028
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	32		-	Clear							
pH	6-6.8	6.3		Vessel 2	40		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1627					70-500	88							
TDS (mg/l)	700-3200	1153					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	8							
Mg Hardness as CaCO3(mg/l)	-	118					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.2					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-029
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	33		-	Clear							
pH	6-6.8	6.4		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1625					70-500	89							
TDS (mg/l)	700-3200	1150					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	8							
Mg Hardness as CaCO3(mg/l)	-	116					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.2					-	Nil							
Suspended Solids (mg/l)	-	2					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	26-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-030
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	30		-	Clear							
pH	6-6.8	6.5		Vessel 2	40		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1501					70-500	84							
TDS (mg/l)	700-3200	1050					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	8							
Mg Hardness as CaCO3(mg/l)	-	110					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.01					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-027
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	42		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	995					70-500	83							
TDS (mg/l)	700-3200	710					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	8							
Mg Hardness as CaCO3(mg/l)	-	88					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-027
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	41		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	49		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1490					70-500	121							
TDS (mg/l)	700-3200	1064					50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	10							
Mg Hardness as CaCO3(mg/l)	-	90					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	1.7					-								
Total Coliforms (CFU/100 ml)	-	1					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-027
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.4		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	14.3		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1800		Vessel 3	14.7		70-500	356							
TDS (mg/l)	700-3200	1295		Vessel 4	14.5		50-350	235							
Ca Hardness as CaCO3 (mg/l)	50-300	168		Vessel 5	14.3		-	18							
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	14.5		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.2		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.7		Vessel 8	15.8		-								
Cartidge inlet Pressure, bar	-	3.8		Vessel 9	60		-								
Cartidge Outlet Pressure, bar	-	3.4		Vessel 10	65		-								
High Pressure pump, bar	-	14.8		Vessel 11	70		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	73		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-027
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	137		clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	130		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1367		Vessel 3	117		70-500	156						
TDS (mg/l)	700-3200	1038		Vessel 4	115		50-350	100						
Ca Hardness as CaCO3 (mg/l)	50-300	186		Vessel 5	140		-	10						
Mg Hardness as CaCO3(mg/l)	-	156		Vessel 6	153		-	8						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	156		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.7					-							
Cartidge inlet Pressure, bar	-	2.1					-							
Cartidge Outlet Pressure, bar	-	1.9					-							
High Pressure pump, bar	-	13.3					-							
Nitrate as NO3 (mg/l)	-	1.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-028
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	43		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	997					70-500	84							
TDS (mg/l)	700-3200	711					50-350	52							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	8							
Mg Hardness as CaCO3(mg/l)	-	88					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-028
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	38		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	47		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1450					70-500	116							
TDS (mg/l)	700-3200	1046					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	10							
Mg Hardness as CaCO3(mg/l)	-	82					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	1.8					-								
Total Coliforms (CFU/100 ml)	-	1					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-028
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.3		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	14.3		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1916		Vessel 3	14.5		70-500	329							
TDS (mg/l)	700-3200	1379		Vessel 4	14.5		50-350	215							
Ca Hardness as CaCO3 (mg/l)	50-300	176		Vessel 5	14.2		-	16							
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.8		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.4		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	15.3		-								
Cartidge inlet Pressure, bar	-	3.8		Vessel 9	57		-								
Cartidge Outlet Pressure, bar	-	3.5		Vessel 10	62		-								
High Pressure pump, bar	-	14.8		Vessel 11	67		-								
Nitrate as NO3 (mg/l)	-	2.4		Vessel 12	71		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-028
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	107		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	110		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1458		Vessel 3	123		70-500	121							
TDS (mg/l)	700-3200	1042		Vessel 4	130		50-350	77							
Ca Hardness as CaCO3 (mg/l)	50-300	274		Vessel 5	138		-	10							
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	146		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	14.3					-								
Nitrate as NO3 (mg/l)	-	3.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-029
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	35			clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	45			7-7.7	7.3						
Conductivity (µs/cm)	1000-4500	991						70-500	85						
TDS (mg/l)	700-3200	709						50-350	54						
Ca Hardness as CaCO3 (mg/l)	50-300	142						-	8						
Mg Hardness as CaCO3(mg/l)	-	82						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.4						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.9						-							
High Pressure pump, bar	-	9.7						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1.3						-							
Suspended Solids (mg/l)	-	2						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-029
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	35			clear Min	Clear						
pH	6-6.8	6.3		Vessel 2	45			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1530						70-500	110						
TDS (mg/l)	700-3200	1080						50-350	70						
Ca Hardness as CaCO3 (mg/l)	50-300	156						-	10						
Mg Hardness as CaCO3(mg/l)	-	88						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.02						-	0						
Hydrex 4101, ppm as PO4	3-5	4.8						-							
Cartidge inlet Pressure, bar	-	2.3						-							
Cartidge Outlet Pressure, bar	-	2.1						-							
High Pressure pump, bar	-	9.8						-							
Nitrate as NO3 (mg/l)	-							-							
Suspended Solids (mg/l)	-	2.1						-							
Total Coliforms (CFU/100 ml)	-	1						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-029
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	14.2		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	14.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1908		Vessel 3	14.3		70-500	327							
TDS (mg/l)	700-3200	1369		Vessel 4	14.4		50-350	214							
Ca Hardness as CaCO3 (mg/l)	50-300	170		Vessel 5	14.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	14.6		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	15.2		-	0							
Hydrex 4101, ppm as PO4	3-5	4.5		Vessel 8	15.2		-								
Cartidge inlet Pressure, bar	-	3.7		Vessel 9	55		-								
Cartidge Outlet Pressure, bar	-	3.4		Vessel 10	60		-								
High Pressure pump, bar	-	14.7		Vessel 11	65		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-029
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	103		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	107		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1508		Vessel 3	120		70-500	95							
TDS (mg/l)	700-3200	1060		Vessel 4	126		50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	282		Vessel 5	136		-	10							
Mg Hardness as CaCO3(mg/l)	-	152		Vessel 6	144		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	147		-	0							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.5					-								
Nitrate as NO3 (mg/l)	-	3.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	26-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-030
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	43		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	988					70-500	81							
TDS (mg/l)	700-3200	706					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	8							
Mg Hardness as CaCO3(mg/l)	-	80					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	26-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-030
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	41		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1518					70-500	102							
TDS (mg/l)	700-3200	1057					50-350	63							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	8							
Mg Hardness as CaCO3(mg/l)	-	84					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.06					-	0							
Hydrex 4101, ppm as PO4	3-5	3.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	1.9					-								
Total Coliforms (CFU/100 ml)	-	1					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	26-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-030
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.1		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	14.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1904		Vessel 3	14.2		70-500	330							
TDS (mg/l)	700-3200	1360		Vessel 4	14.3		50-350	217							
Ca Hardness as CaCO3 (mg/l)	50-300	168		Vessel 5	14.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	14.4		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.1		-	0							
Hydrex 4101, ppm as PO4	3-5	4.5		Vessel 8	15.2		-								
Cartidge inlet Pressure, bar	-	3.5		Vessel 9	53		-								
Cartidge Outlet Pressure, bar	-	3.3		Vessel 10	58		-								
High Pressure pump, bar	-	14.5		Vessel 11	63		-								
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	26-Aug-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-030
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	101		clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	106		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1497		Vessel 3	121		70-500	93							
TDS (mg/l)	700-3200	1044		Vessel 4	124		50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	280		Vessel 5	135		-	10							
Mg Hardness as CaCO3(mg/l)	-	152		Vessel 6	142		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	145		-	0							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.4					-								
Nitrate as NO3 (mg/l)	-	3.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU	STP ZONE A
Submitted by: Hamza Hayani	Date of Report: 26.08.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.37	7.06	#VALUE!
2	BOD	16.20	12.11	mg/l
3	COD	103.00	49.02	mg/l
4	TDS	1816.00	1061.00	mg/l
5	Ammonia as NH ⁺	16.25	2.62	mg/l
6	Nitrate as NO ₃ ⁻	27.30	21.40	mg/l
7	Total Phosphate as PO ₄	1.80	0.80	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.85	mg/l
10	TOTAL NITROGEN (TN)	22.28	7.422	mg/l
11	Total Suspended Solids	24.00	1.00	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 26.08.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.36	7.03	#VALUE!
2	BOD	18.22	7.62	mg/l
3	COD	68.00	30.50	mg/l
4	TDS	1775.00	1063.00	mg/l
5	Ammonia as NH ⁺	15.87	1.75	mg/l
6	Nitrate as NO ₃ ⁻	27.50	22.00	mg/l
7	Total Phosphate as PO ₄	2.08	0.89	mg/l
8	free chlorine	NIL	0.30	mg/l
9	TOTAL OXYGEN (DO)	ND	0.60	mg/l
10	TOTAL NITROGEN (TN)	21.32	6.81	mg/l
11	Total Suspended Solids	21.00	1.00	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	1-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-031
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	32		-	Clear							
pH	6-6.8	6.6		Vessel 2	41		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1650					70-500	82							
TDS (mg/l)	700-3200	1171					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	8							
Mg Hardness as CaCO3(mg/l)	-	120					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	9-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-032
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	31		-	Clear							
pH	6-6.8	6.5		Vessel 2	40		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1660					70-500	80							
TDS (mg/l)	700-3200	1180					50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	8							
Mg Hardness as CaCO3(mg/l)	-	124					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-034
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	45		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	994					70-500	125							
TDS (mg/l)	700-3200	712					50-350	80							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	14							
Mg Hardness as CaCO3(mg/l)	-	82					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-034
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	36		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	45		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1490					70-500	150							
TDS (mg/l)	700-3200	1056					50-350	97							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	14							
Mg Hardness as CaCO3(mg/l)	-	82					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.5					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-034
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.1		clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	13.1		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1860		Vessel 3	13.2		70-500	78							
TDS (mg/l)	700-3200	1343		Vessel 4	13.4		50-350	50							
Ca Hardness as CaCO3 (mg/l)	50-300	166		Vessel 5	13.3		-	12							
Mg Hardness as CaCO3(mg/l)	-	146		Vessel 6	14.1		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	14.3		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	14.5		-								
Cartidge inlet Pressure, bar	-	2.7		Vessel 9	43		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	45		-								
High Pressure pump, bar	-	11.2		Vessel 11	53		-								
Nitrate as NO3 (mg/l)	-	1.2		Vessel 12	55		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-034
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	100		clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	101		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1480		Vessel 3	115		70-500	109						
TDS (mg/l)	700-3200	1039		Vessel 4	120		50-350	70						
Ca Hardness as CaCO3 (mg/l)	50-300	278		Vessel 5	130		-	10						
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	138		-	8						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	140		-	0						
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	14.3					-							
Nitrate as NO3 (mg/l)	-	2.5					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	1-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-031
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	45		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	991					70-500	88							
TDS (mg/l)	700-3200	710					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	144					-	8							
Mg Hardness as CaCO3(mg/l)	-	82					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0							
Hydrex 4101, ppm as PO4	3-5	3.8					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	1-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-031
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	36		clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	44		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1528					70-500	110							
TDS (mg/l)	700-3200	1080					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	10							
Mg Hardness as CaCO3(mg/l)	-	86					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.8					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	1-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-031
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.5		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	14.7		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1908		Vessel 3	14.5		70-500	361							
TDS (mg/l)	700-3200	1364		Vessel 4	14.7		50-350	237							
Ca Hardness as CaCO3 (mg/l)	50-300	168		Vessel 5	14.3		-	20							
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	14.8		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	15.2		-	0							
Hydrex 4101, ppm as PO4	3-5	4.4		Vessel 8	15.6		-								
Cartidge inlet Pressure, bar	-	3.6		Vessel 9	55		-								
Cartidge Outlet Pressure, bar	-	3.4		Vessel 10	59		-								
High Pressure pump, bar	-	14.5		Vessel 11	65		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	1-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-031
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	105		clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	107		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1490		Vessel 3	123		70-500	138							
TDS (mg/l)	700-3200	1051		Vessel 4	126		50-350	87							
Ca Hardness as CaCO3 (mg/l)	50-300	284		Vessel 5	136		-	12							
Mg Hardness as CaCO3(mg/l)	-	154		Vessel 6	144		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	146		-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.5					-								
Nitrate as NO3 (mg/l)	-	3.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	9-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-032
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	32		clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	44		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	995					70-500	84							
TDS (mg/l)	700-3200	712					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	146					-	8							
Mg Hardness as CaCO3(mg/l)	-	84					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	3.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	9-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-032
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	35		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	43		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1519					70-500	110							
TDS (mg/l)	700-3200	1074					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	10							
Mg Hardness as CaCO3(mg/l)	-	88					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.01					-	0							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	9.7					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	9-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-032
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	13.7		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	13.9		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1910		Vessel 3	14.2		70-500	143							
TDS (mg/l)	700-3200	1367		Vessel 4	14.2		50-350	91							
Ca Hardness as CaCO3 (mg/l)	50-300	170		Vessel 5	14.2		-	14							
Mg Hardness as CaCO3(mg/l)	-	148		Vessel 6	14.3		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.01		Vessel 7	14.2		-	0							
Hydrex 4101, ppm as PO4	3-5	3.1		Vessel 8	15.1		-								
Cartidge inlet Pressure, bar	-	3.4		Vessel 9	50		-								
Cartidge Outlet Pressure, bar	-	3.2		Vessel 10	52		-								
High Pressure pump, bar	-	14.2		Vessel 11	60		-								
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	66		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	9-Sep-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-032
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	100		clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	102		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1483		Vessel 3	120		70-500	128							
TDS (mg/l)	700-3200	1045		Vessel 4	123		50-350	82							
Ca Hardness as CaCO3 (mg/l)	50-300	280		Vessel 5	135		-	10							
Mg Hardness as CaCO3(mg/l)	-	150		Vessel 6	141		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	144		-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.4					-								
Nitrate as NO3 (mg/l)	-	2.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU	STP ZONE A
Submitted by: Hamza Hayani	Date of Report: 22.09.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.35	6.37	#VALUE!
2	BOD	23.98	5.72	mg/l
3	COD	109.00	26.00	mg/l
4	TDS	1388.00	637.30	mg/l
5	Ammonia as NH ⁺	30.86	6.75	mg/l
6	Nitrate as NO ₃ ⁻	128.00	25.10	mg/l
7	Total Phosphate as PO ₄	13.00	2.20	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.85	mg/l
10	TOTAL NITROGEN (TN)	58.44	11.50	mg/l
11	Total Suspended Solids	30.00	1.00	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 22.09.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.37	6.99	#VALUE!
2	BOD	19.12	4.62	mg/l
3	COD	89.60	21.00	mg/l
4	TDS	1350.00	1063.00	mg/l
5	Ammonia as NH ⁺	31.28	5.25	mg/l
6	Nitrate as NO ₃ ⁻	95.50	38.80	mg/l
7	Total Phosphate as PO ₄	14.20	2.10	mg/l
8	free chlorine	NIL	0.20	mg/l
9	TOTAL OXYGEN (DO)	ND	0.58	mg/l
10	TOTAL NITROGEN (TN)	51.96	13.53	mg/l
11	Total Suspended Solids	28.00	1.00	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	22		-	Clear							
pH	6-6.8	6.3		Vessel 2	26		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1297					70-500	88							
TDS (mg/l)	700-3200	906					50-350	60							
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	10							
Mg Hardness as CaCO3(mg/l)	-	112					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.98					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.4					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	18		-	Clear							
pH	6-6.8	6.1		Vessel 2	25		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1301					70-500	80							
TDS (mg/l)	700-3200	917					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	128					-	10							
Mg Hardness as CaCO3(mg/l)	-	110					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	3.1					-								
Cartidge Outlet Pressure, bar	-	3					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.4					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	19		-	Clear							
pH	6-6.8	6.2		Vessel 2	24		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1122					70-500	83							
TDS (mg/l)	700-3200	784					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	122					-	10							
Mg Hardness as CaCO3(mg/l)	-	102					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	3.1					-								
Cartidge Outlet Pressure, bar	-	3					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-004
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	18		-	Clear							
pH	6-6.8	6.3		Vessel 2	25		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1422					70-500	102							
TDS (mg/l)	700-3200	1004					50-350	66							
Ca Hardness as CaCO3 (mg/l)	50-300	138					-	12							
Mg Hardness as CaCO3(mg/l)	-	110					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.3					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.8					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	25		Clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	58		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1044					70-500	77							
TDS (mg/l)	700-3200	720					50-350	57							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	8							
Mg Hardness as CaCO3(mg/l)	-	106					-	4							
Total Iron as Fe (mg/l)	0-0.08	0.06					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.7					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	43		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	56		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1540					70-500	139							
TDS (mg/l)	700-3200	1078					50-350	90							
Ca Hardness as CaCO3 (mg/l)	50-300	266					-	10							
Mg Hardness as CaCO3(mg/l)	-	182					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.6					-								
Cartidge inlet Pressure, bar	-	2.4					-								
Cartidge Outlet Pressure, bar	-	2.3					-								
High Pressure pump, bar	-	15.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.5		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	14.3		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1925		Vessel 3	14.3		70-500	270							
TDS (mg/l)	700-3200	1397		Vessel 4	14.4		50-350	177							
Ca Hardness as CaCO3 (mg/l)	50-300	238		Vessel 5	15.3		-	18							
Mg Hardness as CaCO3(mg/l)	-	208		Vessel 6	14..3		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	14.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.95		Vessel 8	15.3		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	53		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	71		-								
High Pressure pump, bar	-	13.8		Vessel 11	61		-								
Nitrate as NO3 (mg/l)	-	2.4		Vessel 12	58		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	133		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1487		Vessel 3	114		70-500	238							
TDS (mg/l)	700-3200	1055		Vessel 4	124		50-350	156							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	140		-	16							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	150		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All oarameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	25		Clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	58		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1044					70-500	77							
TDS (mg/l)	700-3200	720					50-350	57							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	8							
Mg Hardness as CaCO3(mg/l)	-	106					-	4							
Total Iron as Fe (mg/l)	0-0.08	0.06					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.7					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	43		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	56		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1540					70-500	139							
TDS (mg/l)	700-3200	1078					50-350	90							
Ca Hardness as CaCO3 (mg/l)	50-300	266					-	10							
Mg Hardness as CaCO3(mg/l)	-	182					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.6					-								
Cartidge inlet Pressure, bar	-	2.4					-								
Cartidge Outlet Pressure, bar	-	2.3					-								
High Pressure pump, bar	-	15.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.5		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	14.3		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1925		Vessel 3	14.3		70-500	270							
TDS (mg/l)	700-3200	1397		Vessel 4	14.4		50-350	177							
Ca Hardness as CaCO3 (mg/l)	50-300	238		Vessel 5	15.3		-	18							
Mg Hardness as CaCO3(mg/l)	-	208		Vessel 6	14..3		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	14.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.95		Vessel 8	15.3		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	53		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	71		-								
High Pressure pump, bar	-	13.8		Vessel 11	61		-								
Nitrate as NO3 (mg/l)	-	2.4		Vessel 12	58		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-007
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	133		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1487		Vessel 3	114		70-500	238							
TDS (mg/l)	700-3200	1055		Vessel 4	124		50-350	156							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	140		-	16							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	150		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All oarameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	35		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	58		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1022					70-500	180							
TDS (mg/l)	700-3200	714					50-350	126							
Ca Hardness as CaCO3 (mg/l)	50-300	192					-	14							
Mg Hardness as CaCO3(mg/l)	-	90					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	9.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	47		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	60		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1560					70-500	154							
TDS (mg/l)	700-3200	1094					50-350	102							
Ca Hardness as CaCO3 (mg/l)	50-300	274					-	10							
Mg Hardness as CaCO3(mg/l)	-	194					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.7					-								
Cartidge Outlet Pressure, bar	-	2.5					-								
High Pressure pump, bar	-	16.1					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.9		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	14.9		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1881		Vessel 3	14.8		70-500	301							
TDS (mg/l)	700-3200	1384		Vessel 4	14.9		50-350	199							
Ca Hardness as CaCO3 (mg/l)	50-300	226		Vessel 5	15.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	14.8		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	15.4		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	54		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	65		-								
High Pressure pump, bar	-	14.2		Vessel 11	55		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	54		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	135		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	133		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1526		Vessel 3	112		70-500	414							
TDS (mg/l)	700-3200	1094		Vessel 4	123		50-350	290							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	141		-	18							
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	151		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	35		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	58		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1022					70-500	180							
TDS (mg/l)	700-3200	714					50-350	126							
Ca Hardness as CaCO3 (mg/l)	50-300	192					-	14							
Mg Hardness as CaCO3(mg/l)	-	90					-	12							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	9.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	47		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	60		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1560					70-500	154							
TDS (mg/l)	700-3200	1094					50-350	102							
Ca Hardness as CaCO3 (mg/l)	50-300	274					-	10							
Mg Hardness as CaCO3(mg/l)	-	194					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.7					-								
Cartidge Outlet Pressure, bar	-	2.5					-								
High Pressure pump, bar	-	16.1					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.9		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	14.9		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1881		Vessel 3	14.8		70-500	301							
TDS (mg/l)	700-3200	1384		Vessel 4	14.9		50-350	199							
Ca Hardness as CaCO3 (mg/l)	50-300	226		Vessel 5	15.1		-	16							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	14.8		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	14.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	15.4		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	54		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	65		-								
High Pressure pump, bar	-	14.2		Vessel 11	55		-								
Nitrate as NO3 (mg/l)	-	2.2		Vessel 12	54		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	4-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-005
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	135		Clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	133		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1526		Vessel 3	112		70-500	414						
TDS (mg/l)	700-3200	1094		Vessel 4	123		50-350	290						
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	141		-	18						
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	151		-	16						
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	14.1					-							
Nitrate as NO3 (mg/l)	-	2.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	37		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	60		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1071					70-500	138							
TDS (mg/l)	700-3200	750					50-350	97							
Ca Hardness as CaCO3 (mg/l)	50-300	204					-	16							
Mg Hardness as CaCO3(mg/l)	-	98					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.2					-								
High Pressure pump, bar	-	9.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	45		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	58		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1545					70-500	143							
TDS (mg/l)	700-3200	1082					50-350	94							
Ca Hardness as CaCO3 (mg/l)	50-300	268					-	10							
Mg Hardness as CaCO3(mg/l)	-	186					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.9					-								
Cartidge inlet Pressure, bar	-	2.4					-								
Cartidge Outlet Pressure, bar	-	2.3					-								
High Pressure pump, bar	-	15.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.3		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	15.4		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1905		Vessel 3	15.6		70-500	483							
TDS (mg/l)	700-3200	1376		Vessel 4	15.7		50-350	338							
Ca Hardness as CaCO3 (mg/l)	50-300	230		Vessel 5	16.6		-	24							
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	15.2		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.06		Vessel 7	15.3		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.1		Vessel 8	16.6		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	58		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	76		-								
High Pressure pump, bar	-	14.4		Vessel 11	66		-								
Nitrate as NO3 (mg/l)	-	2.7		Vessel 12	60		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	138		Clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	135		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1558		Vessel 3	118		70-500	255						
TDS (mg/l)	700-3200	1092		Vessel 4	127		50-350	178						
Ca Hardness as CaCO3 (mg/l)	50-300	230		Vessel 5	145		-	20						
Mg Hardness as CaCO3(mg/l)	-	226		Vessel 6	155		-	18						
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	157		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.7					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.2					-							
High Pressure pump, bar	-	14.3					-							
Nitrate as NO3 (mg/l)	-	2.4					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All parameters are within the acceptable limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	37		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	60		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1071					70-500	138							
TDS (mg/l)	700-3200	750					50-350	97							
Ca Hardness as CaCO3 (mg/l)	50-300	204					-	16							
Mg Hardness as CaCO3(mg/l)	-	98					-	14							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.2					-								
High Pressure pump, bar	-	9.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	0					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	45		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	58		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1545					70-500	143							
TDS (mg/l)	700-3200	1082					50-350	94							
Ca Hardness as CaCO3 (mg/l)	50-300	268					-	10							
Mg Hardness as CaCO3(mg/l)	-	186					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.9					-								
Cartidge inlet Pressure, bar	-	2.4					-								
Cartidge Outlet Pressure, bar	-	2.3					-								
High Pressure pump, bar	-	15.8					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.3		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	15.4		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1905		Vessel 3	15.6		70-500	483							
TDS (mg/l)	700-3200	1376		Vessel 4	15.7		50-350	338							
Ca Hardness as CaCO3 (mg/l)	50-300	230		Vessel 5	16.6		-	24							
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	15.2		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.06		Vessel 7	15.3		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.1		Vessel 8	16.6		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	58		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	76		-								
High Pressure pump, bar	-	14.4		Vessel 11	66		-								
Nitrate as NO3 (mg/l)	-	2.7		Vessel 12	60		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Feb-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-006
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	138		Clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	135		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1558		Vessel 3	118		70-500	255						
TDS (mg/l)	700-3200	1092		Vessel 4	127		50-350	178						
Ca Hardness as CaCO3 (mg/l)	50-300	230		Vessel 5	145		-	20						
Mg Hardness as CaCO3(mg/l)	-	226		Vessel 6	155		-	18						
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	157		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.7					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.2					-							
High Pressure pump, bar	-	14.3					-							
Nitrate as NO3 (mg/l)	-	2.4					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All parameters are within the acceptable limit.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 20.02.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.3	6.67	#VALUE!
2	BOD	40.11	12	mg/l
3	COD	167	43.2	mg/l
4	TDS	1,236	867	mg/l
5	Ammonia as NH ⁺	2	0.21	mg/l
6	Nitrate as NO ₃ ⁻	124	49.5	mg/l
7	Total Phosphate as PO ₄	27.30	4.00	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.42	mg/l
10	TOTAL NITROGEN (TN)	27.28	10.89	mg/l
11	Total Suspended Solids	52	9	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 23.01.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.6	6.46	#VALUE!
2	BOD	44.7	12	mg/l
3	COD	134	43.2	mg/l
4	TDS	1,124	725	mg/l
5	Ammonia as NH ⁺	2	0.33	mg/l
6	Nitrate as NO ₃ ⁻	127	43	mg/l
7	Total Phosphate as PO ₄	41	10.6	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.55	mg/l
10	TOTAL NITROGEN (TN)	30	9.89	mg/l
11	Total Suspended Solids	60	5	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 20.02.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.36	7.2	#VALUE!
2	BOD	37.22	14.7	mg/l
3	COD	163	67.2	mg/l
4	TDS	1235	808	mg/l
5	Ammonia as NH ⁺	21	0.23	mg/l
6	Nitrate as NO ₃ ⁻	85	23	mg/l
7	Total Phosphate as PO ₄	22	3.00	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.39	mg/l
10	TOTAL NITROGEN (TN)	8.80	5.06	mg/l
11	Total Suspended Solids	14	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 23.01.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.19	6.72	#VALUE!
2	BOD	24.25	4	mg/l
3	COD	97	16	mg/l
4	TDS	1343	702	mg/l
5	Ammonia as NH ⁺	21	0.11	mg/l
6	Nitrate as NO ₃ ⁻	36	9.10	mg/l
7	Total Phosphate as PO ₄	27	8.2	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.55	mg/l
10	TOTAL NITROGEN (TN)	27.28	7.56	mg/l
11	Total Suspended Solids	8	1	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-023
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.4		Vessel 2	30		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1630					70-500	90							
TDS (mg/l)	700-3200	1157					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	10							
Mg Hardness as CaCO3(mg/l)	-	126					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-024
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	30		-	Clear							
pH	6-6.8	6.4		Vessel 2	37		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1640					70-500	93							
TDS (mg/l)	700-3200	1147					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	10							
Mg Hardness as CaCO3(mg/l)	-	122					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-025
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	35		-	Clear							
pH	6-6.8	6.5		Vessel 2	46		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1660					70-500	96							
TDS (mg/l)	700-3200	1164					50-350	52							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	10							
Mg Hardness as CaCO3(mg/l)	-	128					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.4					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-023
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	26		Clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	42		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1005					70-500	84							
TDS (mg/l)	700-3200	710					50-350	53							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	8							
Mg Hardness as CaCO3(mg/l)	-	92					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.4					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-023
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	26		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	45		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1533					70-500	129							
TDS (mg/l)	700-3200	1081					50-350	82							
Ca Hardness as CaCO3 (mg/l)	50-300	166					-	10							
Mg Hardness as CaCO3(mg/l)	-	100					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	4.3					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.8					-								
Nitrate as NO3 (mg/l)	-						-								
Suspended Solids (mg/l)	-	2.1					-								
Total Coliforms (CFU/100 ml)	-	1					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								
		Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-023
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.8		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	14.7		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1889		Vessel 3	14.4		70-500	319							
TDS (mg/l)	700-3200	1360		Vessel 4	14.8		50-350	208							
Ca Hardness as CaCO3 (mg/l)	50-300	190		Vessel 5	14.3		-	18							
Mg Hardness as CaCO3(mg/l)	-	160		Vessel 6	14.4		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	15.2		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.7		Vessel 8	15.5		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	58		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	68		-								
High Pressure pump, bar	-	13.3		Vessel 11	72		-								
Nitrate as NO3 (mg/l)	-	1.8		Vessel 12	75		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-023
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	132		Clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	120		7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1510		Vessel 3	108		70-500	138						
TDS (mg/l)	700-3200	1065		Vessel 4	112		50-350	88						
Ca Hardness as CaCO3 (mg/l)	50-300	200		Vessel 5	132		-	10						
Mg Hardness as CaCO3(mg/l)	-	172		Vessel 6	142		-	8						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	148		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.7					-							
Cartidge inlet Pressure, bar	-	2.1					-							
Cartidge Outlet Pressure, bar	-	1.9					-							
High Pressure pump, bar	-	13.3					-							
Nitrate as NO3 (mg/l)	-	1.6					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-024
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	28			clear Min	Clear						
pH	6-6.8	6.2		Vessel 2	44			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1009						70-500	87						
TDS (mg/l)	700-3200	712						50-350	55						
Ca Hardness as CaCO3 (mg/l)	50-300	154						-	8						
Mg Hardness as CaCO3(mg/l)	-	94						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.5						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.9						-							
High Pressure pump, bar	-	9.6						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1.2						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-024
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	26			clear Min	Clear						
pH	6-6.8	6.6		Vessel 2	45			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1527						70-500	123						
TDS (mg/l)	700-3200	1078						50-350	79						
Ca Hardness as CaCO3 (mg/l)	50-300	160						-	10						
Mg Hardness as CaCO3(mg/l)	-	96						-	8						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.7						-							
Cartidge inlet Pressure, bar	-	2.2						-							
Cartidge Outlet Pressure, bar	-	1.9						-							
High Pressure pump, bar	-	9.7						-							
Nitrate as NO3 (mg/l)	-							-							
Suspended Solids (mg/l)	-	1.9						-							
Total Coliforms (CFU/100 ml)	-	1						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							
		Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-024
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	14.9		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	14.9		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1908		Vessel 3	14.8		70-500	329							
TDS (mg/l)	700-3200	1376		Vessel 4	15.2		50-350	214							
Ca Hardness as CaCO3 (mg/l)	50-300	198		Vessel 5	14.8		-	20							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	14.7		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.5		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	15.8		-								
Cartidge inlet Pressure, bar	-	3.1		Vessel 9	62		-								
Cartidge Outlet Pressure, bar	-	2.8		Vessel 10	70		-								
High Pressure pump, bar	-	14.4		Vessel 11	74		-								
Nitrate as NO3 (mg/l)	-	2.3		Vessel 12	76		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-024
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	135		clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	126		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1502		Vessel 3	112		70-500	148							
TDS (mg/l)	700-3200	1058		Vessel 4	114		50-350	104							
Ca Hardness as CaCO3 (mg/l)	50-300	196		Vessel 5	136		-	12							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	146		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-025
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	30			clear Min	Clear						
pH	6-6.8	6.3		Vessel 2	45			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1013						70-500	89						
TDS (mg/l)	700-3200	720						50-350	52						
Ca Hardness as CaCO3 (mg/l)	50-300	156						-	8						
Mg Hardness as CaCO3(mg/l)	-	98						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.2						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.9						-							
High Pressure pump, bar	-	9.7						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1.2						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-025
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	30			clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	49			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1427						70-500	175						
TDS (mg/l)	700-3200	1001						50-350	112						
Ca Hardness as CaCO3 (mg/l)	50-300	148						-	10						
Mg Hardness as CaCO3(mg/l)	-	82						-	8						
Total Iron as Fe (mg/l)	0-0.08	0.03						-	0						
Hydrex 4101, ppm as PO4	3-5	4.8						-							
Cartidge inlet Pressure, bar	-	2						-							
Cartidge Outlet Pressure, bar	-	1.8						-							
High Pressure pump, bar	-	9.6						-							
Nitrate as NO3 (mg/l)	-							-							
Suspended Solids (mg/l)	-	1.7						-							
Total Coliforms (CFU/100 ml)	-	1						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							
		Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-025
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	14.5		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	14.3		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1786		Vessel 3	14.5		70-500	322							
TDS (mg/l)	700-3200	1278		Vessel 4	14.7		50-350	210							
Ca Hardness as CaCO3 (mg/l)	50-300	172		Vessel 5	14.6		-	18							
Mg Hardness as CaCO3(mg/l)	-	154		Vessel 6	14.3		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.2		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	15.4		-								
Cartidge inlet Pressure, bar	-	3.1		Vessel 9	60		-								
Cartidge Outlet Pressure, bar	-	2.8		Vessel 10	67		-								
High Pressure pump, bar	-	14.2		Vessel 11	71		-								
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Jul-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-025
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	132		clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	124		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1490		Vessel 3	110		70-500	117							
TDS (mg/l)	700-3200	1050		Vessel 4	112		50-350	74							
Ca Hardness as CaCO3 (mg/l)	50-300	190		Vessel 5	134		-	10							
Mg Hardness as CaCO3(mg/l)	-	160		Vessel 6	145		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.6					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	13.5					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 21.07.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.00	7.20	#VALUE!
2	BOD	22.63	17.78	mg/l
3	COD	103.00	80.9	mg/l
4	TDS	1820	1100	mg/l
5	Ammonia as NH ⁺	35.25	0.52	mg/l
6	Nitrate as NO ₃ ⁻	31.1	11.2	mg/l
7	Total Phosphate as PO ₄	2.1	1.00	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.85	mg/l
10	TOTAL NITROGEN (TN)	42.153	3.076	mg/l
11	Total Suspended Solids	9	2	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 21.07.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.20	7.00	#VALUE!
2	BOD	24.86	21.00	mg/l
3	COD	113.00	86.90	mg/l
4	TDS	1550.00	1010.00	mg/l
5	Ammonia as NH ⁺	41.75	0.45	mg/l
6	Nitrate as NO ₃ ⁻	45.094	14.50	mg/l
7	Total Phosphate as PO ₄	5.20	3.00	mg/l
8	free chlorine	NIL	0.21	mg/l
9	TOTAL OXYGEN (DO)	ND	0.60	mg/l
10	TOTAL NITROGEN (TN)	24.70	3.735	mg/l
11	Total Suspended Solids	9.00	5.00	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-018
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	24		-	Clear							
pH	6-6.8	6.7		Vessel 2	33		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1557					70-500	80							
TDS (mg/l)	700-3200	1103					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	166					-	10							
Mg Hardness as CaCO3(mg/l)	-	120					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.7					-								
Cartidge Outlet Pressure, bar	-	2.6					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	10-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-020
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.2		Vessel 2	30		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1500					70-500	94							
TDS (mg/l)	700-3200	1058					50-350	54							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	10							
Mg Hardness as CaCO3(mg/l)	-	114					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	12.8					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	23-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-021
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.2		Vessel 2	30		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1370					70-500	96							
TDS (mg/l)	700-3200	958					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	148					-	10							
Mg Hardness as CaCO3(mg/l)	-	100					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-022
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	26		-	Clear							
pH	6-6.8	6.2		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1530					70-500	94							
TDS (mg/l)	700-3200	1081					50-350	52							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	10							
Mg Hardness as CaCO3(mg/l)	-	112					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	12.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-018
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	53		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	936					70-500	87							
TDS (mg/l)	700-3200	711					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	8							
Mg Hardness as CaCO3(mg/l)	-	98					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.7					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-018
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	38		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1519					70-500	118							
TDS (mg/l)	700-3200	1070					50-350	74							
Ca Hardness as CaCO3 (mg/l)	50-300	252					-	12							
Mg Hardness as CaCO3(mg/l)	-	152					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	14.2					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-018
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.9		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.1		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1896		Vessel 3	15.4		70-500	492							
TDS (mg/l)	700-3200	1360		Vessel 4	15.4		50-350	343							
Ca Hardness as CaCO3 (mg/l)	50-300	212		Vessel 5	15.2		-	30							
Mg Hardness as CaCO3(mg/l)	-	172		Vessel 6	14.2		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	14.6		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.7		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	63		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	83		-								
High Pressure pump, bar	-	13.2		Vessel 11	76		-								
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-018
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	136		Clear Min	Clear						
pH	6-6.8	6.5		Vessel 2	128		7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1501		Vessel 3	114		70-500	381						
TDS (mg/l)	700-3200	1058		Vessel 4	110		50-350	265						
Ca Hardness as CaCO3 (mg/l)	50-300	212		Vessel 5	140		-	14						
Mg Hardness as CaCO3(mg/l)	-	184		Vessel 6	148		-	12						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	150		-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.8					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.4					-							
Nitrate as NO3 (mg/l)	-	1.6					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	10-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-020
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	30			clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	48			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	942						70-500	82						
TDS (mg/l)	700-3200	713						50-350	54						
Ca Hardness as CaCO3 (mg/l)	50-300	162						-	8						
Mg Hardness as CaCO3(mg/l)	-	100						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.6						-							
Cartidge inlet Pressure, bar	-	2.2						-							
Cartidge Outlet Pressure, bar	-	1.8						-							
High Pressure pump, bar	-	9.9						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1.7						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	10-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-020
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	31			clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	35			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1389						70-500	100						
TDS (mg/l)	700-3200	1050						50-350	64						
Ca Hardness as CaCO3 (mg/l)	50-300	230						-	10						
Mg Hardness as CaCO3(mg/l)	-	138						-	8						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.6						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.9						-							
High Pressure pump, bar	-	14.1						-							
Nitrate as NO3 (mg/l)	-	1.3						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	10-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-020
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	15.2		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	15.6		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1887		Vessel 3	15.2		70-500	387							
TDS (mg/l)	700-3200	1357		Vessel 4	15.4		50-350	254							
Ca Hardness as CaCO3 (mg/l)	50-300	204		Vessel 5	14.8		-	26							
Mg Hardness as CaCO3(mg/l)	-	166		Vessel 6	14.3		-	24							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	14.4		-	0							
Hydrex 4101, ppm as PO4	3-5	3.9		Vessel 8	15.7		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	60		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	78		-								
High Pressure pump, bar	-	13.1		Vessel 11	75		-								
Nitrate as NO3 (mg/l)	-	1.6		Vessel 12	77		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	10-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-020
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	134		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	122		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1518		Vessel 3	110		70-500	145							
TDS (mg/l)	700-3200	1075		Vessel 4	107		50-350	94							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	136		-	12							
Mg Hardness as CaCO3(mg/l)	-	188		Vessel 6	144		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	148		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-022
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	28		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	44		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	940					70-500	87							
TDS (mg/l)	700-3200	712					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	158					-	8							
Mg Hardness as CaCO3(mg/l)	-	98					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.7					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-022
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	26			clear Min	Clear						
pH	6-6.8	6.2		Vessel 2	45			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	930						70-500	85						
TDS (mg/l)	700-3200	702						50-350	53						
Ca Hardness as CaCO3 (mg/l)	50-300	150						-	8						
Mg Hardness as CaCO3(mg/l)	-	90						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.8						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.8						-							
High Pressure pump, bar	-	9.8						-							
Nitrate as NO3 (mg/l)	-							-							
Suspended Solids (mg/l)	-	1.7						-							
Total Coliforms (CFU/100 ml)	-	1						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							
		Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-022
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	14.9		clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	14.8		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1883		Vessel 3	14.7		70-500	365							
TDS (mg/l)	700-3200	1356		Vessel 4	15.2		50-350	239							
Ca Hardness as CaCO3 (mg/l)	50-300	188		Vessel 5	14.8		-	22							
Mg Hardness as CaCO3(mg/l)	-	158		Vessel 6	14.5		-	20							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.5		-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.9		Vessel 8	15.8		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	60		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	71		-								
High Pressure pump, bar	-	13.1		Vessel 11	75		-								
Nitrate as NO3 (mg/l)	-	1.5		Vessel 12	77		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	30-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-022
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	133		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	122		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1513		Vessel 3	110		70-500	180							
TDS (mg/l)	700-3200	1065		Vessel 4	114		50-350	115							
Ca Hardness as CaCO3 (mg/l)	50-300	208		Vessel 5	135		-	12							
Mg Hardness as CaCO3(mg/l)	-	178		Vessel 6	145		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.4					-								
Nitrate as NO3 (mg/l)	-	1.7					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	23-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-021
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	26			clear Min	Clear						
pH	6-6.8	6.2		Vessel 2	45			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	938						70-500	87						
TDS (mg/l)	700-3200	710						50-350	55						
Ca Hardness as CaCO3 (mg/l)	50-300	156						-	8						
Mg Hardness as CaCO3(mg/l)	-	96						-	6						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.8						-							
Cartidge inlet Pressure, bar	-	2.1						-							
Cartidge Outlet Pressure, bar	-	1.8						-							
High Pressure pump, bar	-	9.8						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1.6						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	23-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-021
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	35			clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	39			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1514						70-500	135						
TDS (mg/l)	700-3200	1067						50-350	85						
Ca Hardness as CaCO3 (mg/l)	50-300	238						-	10						
Mg Hardness as CaCO3(mg/l)	-	144						-	8						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.8						-							
Cartidge inlet Pressure, bar	-	2.3						-							
Cartidge Outlet Pressure, bar	-	2.1						-							
High Pressure pump, bar	-	14.3						-							
Nitrate as NO3 (mg/l)	-	1.7						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	23-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-021
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	15.1		clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	15.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1903		Vessel 3	15.3		70-500	377							
TDS (mg/l)	700-3200	1372		Vessel 4	15.4		50-350	247							
Ca Hardness as CaCO3 (mg/l)	50-300	206		Vessel 5	14.6		-	24							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	14.6		-	22							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.1		Vessel 8	15.9		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	66		-								
Cartidge Outlet Pressure, bar	-	2.2		Vessel 10	75		-								
High Pressure pump, bar	-	13.3		Vessel 11	73		-								
Nitrate as NO3 (mg/l)	-	1.8		Vessel 12	75		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	23-Jun-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-021
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	138		clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	126		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1517		Vessel 3	116		70-500	243							
TDS (mg/l)	700-3200	1068		Vessel 4	117		50-350	156							
Ca Hardness as CaCO3 (mg/l)	50-300	210		Vessel 5	142		-	16							
Mg Hardness as CaCO3(mg/l)	-	180		Vessel 6	148		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	153		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.5					-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 30.06.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.70	8.00	#VALUE!
2	BOD	84.00	22.00	mg/l
3	COD	252.00	61.00	mg/l
4	TDS	1354.00	898.00	mg/l
5	Ammonia as NH ⁺	12.00	2.80	mg/l
6	Nitrate as NO ₃ ⁻	21.40	15.90	mg/l
7	Total Phosphate as PO ₄	8.30	3.00	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.25	mg/l
10	TOTAL NITROGEN (TN)	15.708	5.698	mg/l
11	Total Suspended Solids	17	2	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 30.06.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.60	7.94	#VALUE!
2	BOD	240.00	86.00	mg/l
3	COD	622.00	258.00	mg/l
4	TDS	1360.00	932.00	mg/l
5	Ammonia as NH ⁺	20.71	11.55	mg/l
6	Nitrate as NO ₃ ⁻	25.90	18.70	mg/l
7	Total Phosphate as PO ₄	9.10	3.00	mg/l
8	free chlorine	NIL	0.21	mg/l
9	TOTAL OXYGEN (DO)	ND	0.78	mg/l
10	TOTAL NITROGEN (TN)	24.70	14.61	mg/l
11	Total Suspended Solids	12.00	2.00	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.6		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1578					70-500	75							
TDS (mg/l)	700-3200	1113					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	174					-	10							
Mg Hardness as CaCO3(mg/l)	-	124					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.9					-								
Cartidge Outlet Pressure, bar	-	2.7					-								
High Pressure pump, bar	-	12.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.6					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.5		Vessel 2	30		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1375					70-500	85							
TDS (mg/l)	700-3200	960					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	152					-	8							
Mg Hardness as CaCO3(mg/l)	-	110					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.1					-								
Cartidge Outlet Pressure, bar	-	2.9					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.3					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	27		-	Clear							
pH	6-6.8	6.5		Vessel 2	32		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1605					70-500	112							
TDS (mg/l)	700-3200	1135					50-350	71							
Ca Hardness as CaCO3 (mg/l)	50-300	182					-	10							
Mg Hardness as CaCO3(mg/l)	-	130					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	13.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.9					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	31		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	56		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	945					70-500	88							
TDS (mg/l)	700-3200	722					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	166					-	8							
Mg Hardness as CaCO3(mg/l)	-	106					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	9.8					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.8					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	44		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1512					70-500	89							
TDS (mg/l)	700-3200	1075					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	250					-	10							
Mg Hardness as CaCO3(mg/l)	-	156					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.2		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.3		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1425		Vessel 3	15.7		70-500	495							
TDS (mg/l)	700-3200	1067		Vessel 4	15.8		50-350	345							
Ca Hardness as CaCO3 (mg/l)	50-300	202		Vessel 5	15.7		-	30							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	14.8		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	17.8		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	66		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	85		-								
High Pressure pump, bar	-	13.1		Vessel 11	80		-								
Nitrate as NO3 (mg/l)	-	1.6		Vessel 12	73		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	130		Clear Min	Clear							
pH	6-6.8	7.1		Vessel 2	124		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1528		Vessel 3	110		70-500	218							
TDS (mg/l)	700-3200	1073		Vessel 4	106		50-350	140							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	134		-	10							
Mg Hardness as CaCO3(mg/l)	-	192		Vessel 6	144		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	148		-	0							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	1.7					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	31		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	56		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	945					70-500	88							
TDS (mg/l)	700-3200	722					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	166					-	8							
Mg Hardness as CaCO3(mg/l)	-	106					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	9.8					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.8					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	44		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1512					70-500	89							
TDS (mg/l)	700-3200	1075					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	250					-	10							
Mg Hardness as CaCO3(mg/l)	-	156					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.2		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.3		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1425		Vessel 3	15.7		70-500	495							
TDS (mg/l)	700-3200	1067		Vessel 4	15.8		50-350	345							
Ca Hardness as CaCO3 (mg/l)	50-300	202		Vessel 5	15.7		-	30							
Mg Hardness as CaCO3(mg/l)	-	168		Vessel 6	14.8		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.7		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	17.8		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	66		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	85		-								
High Pressure pump, bar	-	13.1		Vessel 11	80		-								
Nitrate as NO3 (mg/l)	-	1.6		Vessel 12	73		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	27-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-017
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	130		Clear Min	Clear						
pH	6-6.8	7.1		Vessel 2	124		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1528		Vessel 3	110		70-500	218						
TDS (mg/l)	700-3200	1073		Vessel 4	106		50-350	140						
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	134		-	10						
Mg Hardness as CaCO3(mg/l)	-	192		Vessel 6	144		-	8						
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	148		-	0						
Hydrex 4101, ppm as PO4	3-5	4.4					-							
Cartidge inlet Pressure, bar	-	2.3					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.6					-							
Nitrate as NO3 (mg/l)	-	1.7					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	27		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	55		7-7.7	7							
Conductivity (µs/cm)	1000-4500	940					70-500	89							
TDS (mg/l)	700-3200	718					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	8							
Mg Hardness as CaCO3(mg/l)	-	100					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	49		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1534					70-500	98							
TDS (mg/l)	700-3200	1092					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	263					-	8							
Mg Hardness as CaCO3(mg/l)	-	173					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.6					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.7		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.1		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1898		Vessel 3	15.8		70-500	498							
TDS (mg/l)	700-3200	1361		Vessel 4	15.5		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	14.9		-	30							
Mg Hardness as CaCO3(mg/l)	-	190		Vessel 6	14.8		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.5		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.4		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	69		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	84		-								
High Pressure pump, bar	-	13.4		Vessel 11	76		-								
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	135		Clear Min	Clear							
pH	6-6.8	6.8		Vessel 2	130		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1488		Vessel 3	110		70-500	220							
TDS (mg/l)	700-3200	1053		Vessel 4	113		50-350	140							
Ca Hardness as CaCO3 (mg/l)	50-300	214		Vessel 5	140		-	12							
Mg Hardness as CaCO3(mg/l)	-	184		Vessel 6	150		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	1.95					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	27		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	55		7-7.7	7							
Conductivity (µs/cm)	1000-4500	940					70-500	89							
TDS (mg/l)	700-3200	718					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	8							
Mg Hardness as CaCO3(mg/l)	-	100					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	49		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1534					70-500	98							
TDS (mg/l)	700-3200	1092					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	263					-	8							
Mg Hardness as CaCO3(mg/l)	-	173					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.6					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.7		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.1		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1898		Vessel 3	15.8		70-500	498							
TDS (mg/l)	700-3200	1361		Vessel 4	15.5		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	14.9		-	30							
Mg Hardness as CaCO3(mg/l)	-	190		Vessel 6	14.8		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.5		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.4		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	69		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	84		-								
High Pressure pump, bar	-	13.4		Vessel 11	76		-								
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	05-MAY-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	135		Clear Min	Clear							
pH	6-6.8	6.8		Vessel 2	130		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1488		Vessel 3	110		70-500	220							
TDS (mg/l)	700-3200	1053		Vessel 4	113		50-350	140							
Ca Hardness as CaCO3 (mg/l)	50-300	214		Vessel 5	140		-	12							
Mg Hardness as CaCO3(mg/l)	-	184		Vessel 6	150		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	13.6					-								
Nitrate as NO3 (mg/l)	-	1.95					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	55		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	960					70-500	86							
TDS (mg/l)	700-3200	750					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	8							
Mg Hardness as CaCO3(mg/l)	-	110					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.9					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	28		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	43		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1507					70-500	82							
TDS (mg/l)	700-3200	1065					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	248					-	8							
Mg Hardness as CaCO3(mg/l)	-	152					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.6		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	15.5		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1910		Vessel 3	15.3		70-500	490							
TDS (mg/l)	700-3200	1370		Vessel 4	15.4		50-350	339							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	15.1		-	28							
Mg Hardness as CaCO3(mg/l)	-	178		Vessel 6	14.4		-	24							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.2		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.8		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	63		-								
Cartidge Outlet Pressure, bar	-	1.9		Vessel 10	80		-								
High Pressure pump, bar	-	13.2		Vessel 11	75		-								
Nitrate as NO3 (mg/l)	-	1.8		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	128		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1515		Vessel 3	113		70-500	246							
TDS (mg/l)	700-3200	1065		Vessel 4	111		50-350	160							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	137		-	12							
Mg Hardness as CaCO3(mg/l)	-	189		Vessel 6	146		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.5					-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	55		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	960					70-500	86							
TDS (mg/l)	700-3200	750					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	8							
Mg Hardness as CaCO3(mg/l)	-	110					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	9.9					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	28		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	43		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1507					70-500	82							
TDS (mg/l)	700-3200	1065					50-350	51							
Ca Hardness as CaCO3 (mg/l)	50-300	248					-	8							
Mg Hardness as CaCO3(mg/l)	-	152					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.8					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.6		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	15.5		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1910		Vessel 3	15.3		70-500	490							
TDS (mg/l)	700-3200	1370		Vessel 4	15.4		50-350	339							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	15.1		-	28							
Mg Hardness as CaCO3(mg/l)	-	178		Vessel 6	14.4		-	24							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.2		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.8		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	63		-								
Cartidge Outlet Pressure, bar	-	1.9		Vessel 10	80		-								
High Pressure pump, bar	-	13.2		Vessel 11	75		-								
Nitrate as NO3 (mg/l)	-	1.8		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	19-May-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-016
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	128		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1515		Vessel 3	113		70-500	246							
TDS (mg/l)	700-3200	1065		Vessel 4	111		50-350	160							
Ca Hardness as CaCO3 (mg/l)	50-300	216		Vessel 5	137		-	12							
Mg Hardness as CaCO3(mg/l)	-	189		Vessel 6	146		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.5					-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU	STP ZONE A
Submitted by: Hamza Hayani	Date of Report: 29.04.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.86	7.43	#VALUE!
2	BOD	3.22	6.24	mg/l
3	COD	15.4	20.4	mg/l
4	TDS	897	736	mg/l
5	Ammonia as NH ⁺	0.27	0.45	mg/l
6	Nitrate as NO ₃ ⁻	49	48	mg/l
7	Total Phosphate as PO ₄	4.13	2.0	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.89	mg/l
10	TOTAL NITROGEN (TN)	10.78	10.56	mg/l
11	Total Suspended Solids	4	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU	STP ZONE A
Submitted by: Hamza Hayani	Date of Report: 30.05.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.10	6.11	#VALUE!
2	BOD	13.00	5.24	mg/l
3	COD	50.03	17.4	mg/l
4	TDS	1020	650	mg/l
5	Ammonia as NH ⁺	22.5	9.00	mg/l
6	Nitrate as NO ₃ ⁻	43.9	17	mg/l
7	Total Phosphate as PO ₄	2.1	1.00	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.85	mg/l
10	TOTAL NITROGEN (TN)	31.8	11.20	mg/l
11	Total Suspended Solids	11	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 29.04.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.58	6.86	#VALUE!
2	BOD	51.36	3.35	mg/l
3	COD	16.90	13.40	mg/l
4	TDS	890	713	mg/l
5	Ammonia as NH ⁺	0.29	1.37	mg/l
6	Nitrate as NO ₃ ⁻	51.90	39.60	mg/l
7	Total Phosphate as PO ₄	2.30	1.80	mg/l
8	free chlorine	NIL	0.41	mg/l
9	TOTAL OXYGEN (DO)	ND	0.71	mg/l
10	TOTAL NITROGEN (TN)	11.93	8.58	mg/l
11	Total Suspended Solids	5	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 30.05.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.10	6.74	#VALUE!
2	BOD	42.36	4.4	mg/l
3	COD	153	13.22	mg/l
4	TDS	807	488	mg/l
5	Ammonia as NH ⁺	21.00	11	mg/l
6	Nitrate as NO ₃ ⁻	77	25	mg/l
7	Total Phosphate as PO ₄	2.15	1.20	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.88	mg/l
10	TOTAL NITROGEN (TN)	36.94	13.26	mg/l
11	Total Suspended Solids	10	1	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	07-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.6		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	87							
TDS (mg/l)	700-3200	1100					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	175					-	8							
Mg Hardness as CaCO3(mg/l)	-	131					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.8					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	07-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.6		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	87							
TDS (mg/l)	700-3200	1100					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	175					-	8							
Mg Hardness as CaCO3(mg/l)	-	131					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.8					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	07-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.6		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510					70-500	87							
TDS (mg/l)	700-3200	1100					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	175					-	8							
Mg Hardness as CaCO3(mg/l)	-	131					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.8					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	23		-	Clear							
pH	6-6.8	6.6		Vessel 2	30		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1488					70-500	85							
TDS (mg/l)	700-3200	1050					50-350	55							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	8							
Mg Hardness as CaCO3(mg/l)	-	124					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	2.9					-								
High Pressure pump, bar	-	12.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.6					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	28-APR-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	26		-	Clear							
pH	6-6.8	6.1		Vessel 2	28		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1397					70-500	102							
TDS (mg/l)	700-3200	959					50-350	72							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	10							
Mg Hardness as CaCO3(mg/l)	-	114					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.7					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-014
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	27		-	Clear							
pH	6-6.8	6.6		Vessel 2	32		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1421					70-500	88							
TDS (mg/l)	700-3200	999					50-350	57							
Ca Hardness as CaCO3 (mg/l)	50-300	162					-	8							
Mg Hardness as CaCO3(mg/l)	-	118					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	2.9					-								
High Pressure pump, bar	-	12.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-014
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	26		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	54		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	938					70-500	100							
TDS (mg/l)	700-3200	716					50-350	64							
Ca Hardness as CaCO3 (mg/l)	50-300	162					-	10							
Mg Hardness as CaCO3(mg/l)	-	98					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-014
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		Clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	49		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1529					70-500	114							
TDS (mg/l)	700-3200	1080					50-350	71							
Ca Hardness as CaCO3 (mg/l)	50-300	258					-	10							
Mg Hardness as CaCO3(mg/l)	-	162					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.4					-								
Nitrate as NO3 (mg/l)	-	1.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-014
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.8		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	15.3		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1883		Vessel 3	15.7		70-500	494							
TDS (mg/l)	700-3200	1354		Vessel 4	15.2		50-350	340							
Ca Hardness as CaCO3 (mg/l)	50-300	218		Vessel 5	14.6		-	28							
Mg Hardness as CaCO3(mg/l)	-	184		Vessel 6	14.2		-	24							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	15.1		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.8		-								
Cartidge inlet Pressure, bar	-	2.1		Vessel 9	65		-								
Cartidge Outlet Pressure, bar	-	2		Vessel 10	82		-								
High Pressure pump, bar	-	13.2		Vessel 11	74		-								
Nitrate as NO3 (mg/l)	-	1.7		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	14-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-014
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	138		Clear Min	Clear							
pH	6-6.8	6.8		Vessel 2	132		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1515		Vessel 3	113		70-500	246							
TDS (mg/l)	700-3200	1071		Vessel 4	116		50-350	160							
Ca Hardness as CaCO3 (mg/l)	50-300	218		Vessel 5	143		-	14							
Mg Hardness as CaCO3(mg/l)	-	194		Vessel 6	152		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	154		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.9					-								
Nitrate as NO3 (mg/l)	-	2.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	26		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	55		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	945					70-500	100							
TDS (mg/l)	700-3200	721					50-350	68							
Ca Hardness as CaCO3 (mg/l)	50-300	170					-	9							
Mg Hardness as CaCO3(mg/l)	-	105					-	7							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.7					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	29		Clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	41		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1520					70-500	108							
TDS (mg/l)	700-3200	1050					50-350	61							
Ca Hardness as CaCO3 (mg/l)	50-300	241					-	8							
Mg Hardness as CaCO3(mg/l)	-	142					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	3.5					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.3					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.2		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	15.7		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1879		Vessel 3	15.7		70-500	471							
TDS (mg/l)	700-3200	1305		Vessel 4	15.1		50-350	322							
Ca Hardness as CaCO3 (mg/l)	50-300	201		Vessel 5	14.9		-	27							
Mg Hardness as CaCO3(mg/l)	-	173		Vessel 6	14.7		-	21							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.1		-	0							
Hydrex 4101, ppm as PO4	3-5	4.1		Vessel 8	16.3		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	65		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	80		-								
High Pressure pump, bar	-	13.5		Vessel 11	73		-								
Nitrate as NO3 (mg/l)	-	1.5		Vessel 12	69		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	7-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	138		Clear Min	Clear						
pH	6-6.8	6.7		Vessel 2	133		7-7.7	7.3						
Conductivity (µs/cm)	1000-4500	1522		Vessel 3	109		70-500	236						
TDS (mg/l)	700-3200	1080		Vessel 4	110		50-350	148						
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	139		-	11						
Mg Hardness as CaCO3(mg/l)	-	196		Vessel 6	142		-	8.0						
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	149		-	0						
Hydrex 4101, ppm as PO4	3-5	3.5					-							
Cartidge inlet Pressure, bar	-	2.2					-							
Cartidge Outlet Pressure, bar	-	2.1					-							
High Pressure pump, bar	-	13.7					-							
Nitrate as NO3 (mg/l)	-	2.1					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	25		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	53		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	941					70-500	98							
TDS (mg/l)	700-3200	719					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	8							
Mg Hardness as CaCO3(mg/l)	-	100					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.5					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.7					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	45		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1525					70-500	110							
TDS (mg/l)	700-3200	1075					50-350	65							
Ca Hardness as CaCO3 (mg/l)	50-300	255					-	10							
Mg Hardness as CaCO3(mg/l)	-	156					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	4.6					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.3					-								
Nitrate as NO3 (mg/l)	-	1.3					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.9		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	15.5		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1928		Vessel 3	15.8		70-500	496							
TDS (mg/l)	700-3200	1392		Vessel 4	15.4		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	15.3		-	30							
Mg Hardness as CaCO3(mg/l)	-	188		Vessel 6	14.7		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.6		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	17.2		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	67		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	83		-								
High Pressure pump, bar	-	13.5		Vessel 11	76		-								
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	21-Apr-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-015
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	136		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	130		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1510		Vessel 3	110		70-500	244							
TDS (mg/l)	700-3200	1066		Vessel 4	114		50-350	156							
Ca Hardness as CaCO3 (mg/l)	50-300	214		Vessel 5	140		-	12							
Mg Hardness as CaCO3(mg/l)	-	190		Vessel 6	150		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	151		-	0							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.7					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	31-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	27		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	55		7-7.7	7							
Conductivity (µs/cm)	1000-4500	940					70-500	89							
TDS (mg/l)	700-3200	718					50-350	56							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	8							
Mg Hardness as CaCO3(mg/l)	-	100					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	31-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	33		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	49		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1534					70-500	98							
TDS (mg/l)	700-3200	1092					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	263					-	8							
Mg Hardness as CaCO3(mg/l)	-	173					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	2					-								
High Pressure pump, bar	-	14.6					-								
Nitrate as NO3 (mg/l)	-	1.4					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	31-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.7		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	16.1		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1898		Vessel 3	15.8		70-500	498							
TDS (mg/l)	700-3200	1361		Vessel 4	15.5		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	14.9		-	30							
Mg Hardness as CaCO3(mg/l)	-	190		Vessel 6	14.8		-	26							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.5		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	16.4		-								
Cartidge inlet Pressure, bar	-	2.2		Vessel 9	69		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	84		-								
High Pressure pump, bar	-	13.4		Vessel 11	76		-								
Nitrate as NO3 (mg/l)	-	1.9		Vessel 12	72		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	31-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-013
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product						
Appearance	clear Min	Clear		Vessel 1	135		Clear Min	Clear						
pH	6-6.8	6.8		Vessel 2	130		7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1488		Vessel 3	110		70-500	220						
TDS (mg/l)	700-3200	1053		Vessel 4	113		50-350	140						
Ca Hardness as CaCO3 (mg/l)	50-300	214		Vessel 5	140		-	12						
Mg Hardness as CaCO3(mg/l)	-	184		Vessel 6	150		-	10						
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	152		-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.5					-							
Cartidge inlet Pressure, bar	-	2					-							
Cartidge Outlet Pressure, bar	-	1.9					-							
High Pressure pump, bar	-	13.6					-							
Nitrate as NO3 (mg/l)	-	1.95					-							
Suspended Solids (mg/l)	-	1					-							
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-							
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 29.04.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.86	7.43	#VALUE!
2	BOD	3.22	6.24	mg/l
3	COD	15.4	20.4	mg/l
4	TDS	897	736	mg/l
5	Ammonia as NH ⁺	0.27	0.45	mg/l
6	Nitrate as NO ₃ ⁻	49	48	mg/l
7	Total Phosphate as PO ₄	4.13	2.0	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.89	mg/l
10	TOTAL NITROGEN (TN)	10.78	10.56	mg/l
11	Total Suspended Solids	4	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 29.04.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.58	6.86	#VALUE!
2	BOD	51.36	3.35	mg/l
3	COD	16.90	13.40	mg/l
4	TDS	890	713	mg/l
5	Ammonia as NH ⁺	0.29	1.37	mg/l
6	Nitrate as NO ₃ ⁻	51.90	39.60	mg/l
7	Total Phosphate as PO ₄	2.30	1.80	mg/l
8	free chlorine	NIL	0.41	mg/l
9	TOTAL OXYGEN (DO)	ND	0.71	mg/l
10	TOTAL NITROGEN (TN)	11.93	8.58	mg/l
11	Total Suspended Solids	5	1	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-009
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	24		-	Clear							
pH	6-6.8	6		Vessel 2	27		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1359					70-500	109							
TDS (mg/l)	700-3200	959					50-350	70							
Ca Hardness as CaCO3 (mg/l)	50-300	150					-	12							
Mg Hardness as CaCO3(mg/l)	-	110					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.5					-								
Cartidge inlet Pressure, bar	-	3.1					-								
Cartidge Outlet Pressure, bar	-	2.8					-								
High Pressure pump, bar	-	12.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.5					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	26		-	Clear							
pH	6-6.8	6.1		Vessel 2	28		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1397					70-500	102							
TDS (mg/l)	700-3200	959					50-350	72							
Ca Hardness as CaCO3 (mg/l)	50-300	154					-	10							
Mg Hardness as CaCO3(mg/l)	-	114					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.7					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	18-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-011
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	28		-	Clear							
pH	6-6.8	6.1		Vessel 2	33		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1424					70-500	98							
TDS (mg/l)	700-3200	1007					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	156					-	10							
Mg Hardness as CaCO3(mg/l)	-	116					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.9					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	25-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-012
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	27		-	Clear							
pH	6-6.8	6.4		Vessel 2	31		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1290					70-500	101							
TDS (mg/l)	700-3200	905					50-350	64							
Ca Hardness as CaCO3 (mg/l)	50-300	140					-	10							
Mg Hardness as CaCO3(mg/l)	-	102					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	3.1					-								
Cartidge Outlet Pressure, bar	-	2.9					-								
High Pressure pump, bar	-	12.1					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.1					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-009
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	29		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	65		7-7.7	7							
Conductivity (µs/cm)	1000-4500	940					70-500	110							
TDS (mg/l)	700-3200	700					50-350	71							
Ca Hardness as CaCO3 (mg/l)	50-300	162					-	10							
Mg Hardness as CaCO3(mg/l)	-	98					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-009
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	38		Clear Min	Clear							
pH	6-6.8	6.4		Vessel 2	51		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1523					70-500	94							
TDS (mg/l)	700-3200	1083					50-350	58							
Ca Hardness as CaCO3 (mg/l)	50-300	260					-	10							
Mg Hardness as CaCO3(mg/l)	-	174					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	15.3					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-009
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.3		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	15.1		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1894		Vessel 3	14.8		70-500	498							
TDS (mg/l)	700-3200	1371		Vessel 4	14.6		50-350	341							
Ca Hardness as CaCO3 (mg/l)	50-300	226		Vessel 5	14.9		-	26							
Mg Hardness as CaCO3(mg/l)	-	188		Vessel 6	14.8		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	14.5		-	0							
Hydrex 4101, ppm as PO4	3-5	4.95		Vessel 8	15.9		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	58		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	76		-								
High Pressure pump, bar	-	14.2		Vessel 11	66		-								
Nitrate as NO3 (mg/l)	-	2.9		Vessel 12	64		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	3-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-009
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	136		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1486		Vessel 3	114		70-500	225							
TDS (mg/l)	700-3200	1056		Vessel 4	125		50-350	148							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	143		-	14							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	150		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	157		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.9					-								
Nitrate as NO3 (mg/l)	-	1.8					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	28		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	63		7-7.7	7							
Conductivity (µs/cm)	1000-4500	938					70-500	97							
TDS (mg/l)	700-3200	700					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	160					-	10							
Mg Hardness as CaCO3(mg/l)	-	96					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	1.8					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.5					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	36		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	49		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1518					70-500	90							
TDS (mg/l)	700-3200	1080					50-350	57							
Ca Hardness as CaCO3 (mg/l)	50-300	258					-	10							
Mg Hardness as CaCO3(mg/l)	-	170					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.9					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	15.2					-								
Nitrate as NO3 (mg/l)	-	2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	15.5		Clear Min	Clear							
pH	6-6.8	6.3		Vessel 2	15.6		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1905		Vessel 3	15.1		70-500	498							
TDS (mg/l)	700-3200	1380		Vessel 4	14.7		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	228		Vessel 5	14.9		-	26							
Mg Hardness as CaCO3(mg/l)	-	192		Vessel 6	14.6		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	15.2		-	0							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	15.9		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	62		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	80		-								
High Pressure pump, bar	-	13.8		Vessel 11	72		-								
Nitrate as NO3 (mg/l)	-	2.7		Vessel 12	66		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	11-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-010
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	132		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	134		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1503		Vessel 3	111		70-500	220							
TDS (mg/l)	700-3200	1070		Vessel 4	123		50-350	144							
Ca Hardness as CaCO3 (mg/l)	50-300	224		Vessel 5	140		-	14							
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	148		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.03		Vessel 7	153		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.1					-								
Nitrate as NO3 (mg/l)	-	2.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Nameer Ahmed	Date:	18-Mar-2024
Project:	Al Hasa	Mobile:	0504890270	Ref:	-011
Contact Person:	Waelbadr	Email:	nameer.ahamed@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	30		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	65		7-7.7	7							
Conductivity (µs/cm)	1000-4500	941					70-500	103							
TDS (mg/l)	700-3200	712					50-350	57							
Ca Hardness as CaCO3 (mg/l)	50-300	164					-	10							
Mg Hardness as CaCO3(mg/l)	-	100					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.05					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.3					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.6					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.7					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Nameer Ahmed	Date:	18-Mar-2024
Project:	Al Hasa	Mobile:	0504890270	Ref:	-011
Contact Person:	Waelbadr	Email:	nameer.ahamed@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	38		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	52		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1530					70-500	106							
TDS (mg/l)	700-3200	1090					50-350	68							
Ca Hardness as CaCO3 (mg/l)	50-300	262					-	10							
Mg Hardness as CaCO3(mg/l)	-	174					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.3					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	15.3					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Nameer Ahmed	Date:	18-Mar-2024
Project:	Al Hasa	Mobile:	0504890270	Ref:	-011
Contact Person:	Waelbadr	Email:	nameer.ahamed@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.2		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	15.2		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1943		Vessel 3	15.4		70-500	498							
TDS (mg/l)	700-3200	1410		Vessel 4	15.1		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	238		Vessel 5	14.5		-	26							
Mg Hardness as CaCO3(mg/l)	-	200		Vessel 6	14.4		-	18							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	15.3		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.3		Vessel 8	15.6		-								
Cartidge inlet Pressure, bar	-	2.6		Vessel 9	64		-								
Cartidge Outlet Pressure, bar	-	2.4		Vessel 10	83		-								
High Pressure pump, bar	-	14.1		Vessel 11	75		-								
Nitrate as NO3 (mg/l)	-	2.9		Vessel 12	68		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Nameer Ahmed	Date:	18-Mar-2024
Project:	Al Hasa	Mobile:	0504890270	Ref:	-011
Contact Person:	Waelbadr	Email:	nameer.ahamed@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	134		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	131		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1505		Vessel 3	110		70-500	215							
TDS (mg/l)	700-3200	1069		Vessel 4	120		50-350	140							
Ca Hardness as CaCO3 (mg/l)	50-300	222		Vessel 5	146		-	14							
Mg Hardness as CaCO3(mg/l)	-	198		Vessel 6	149		-	12							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	155		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	13.9					-								
Nitrate as NO3 (mg/l)	-	2.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	25-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-012
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	25		Clear Min	Clear							
pH	6-6.8	6		Vessel 2	57		7-7.7	7							
Conductivity (µs/cm)	1000-4500	945					70-500	86							
TDS (mg/l)	700-3200	720					50-350	54							
Ca Hardness as CaCO3 (mg/l)	50-300	166					-	8							
Mg Hardness as CaCO3(mg/l)	-	102					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.03					-	0							
Hydrex 4101, ppm as PO4	3-5	3.2					-								
Cartidge inlet Pressure, bar	-	1.9					-								
Cartidge Outlet Pressure, bar	-	1.6					-								
High Pressure pump, bar	-	9.7					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	1.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	25-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-012
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	34		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	50		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1537					70-500	102							
TDS (mg/l)	700-3200	1096					50-350	62							
Ca Hardness as CaCO3 (mg/l)	50-300	267					-	8							
Mg Hardness as CaCO3(mg/l)	-	176					-	6							
Total Iron as Fe (mg/l)	0-0.08	0.04					-	0							
Hydrex 4101, ppm as PO4	3-5	3.1					-								
Cartidge inlet Pressure, bar	-	2.2					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	14.7					-								
Nitrate as NO3 (mg/l)	-	1.6					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	25-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-012
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	16.4		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	15.8		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1904		Vessel 3	15.6		70-500	498							
TDS (mg/l)	700-3200	1374		Vessel 4	15.4		50-350	344							
Ca Hardness as CaCO3 (mg/l)	50-300	224		Vessel 5	14.8		-	28							
Mg Hardness as CaCO3(mg/l)	-	192		Vessel 6	14.8		-	22							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	15.8		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.4		Vessel 8	16.3		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	68		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	86		-								
High Pressure pump, bar	-	13.5		Vessel 11	78		-								
Nitrate as NO3 (mg/l)	-	2.1		Vessel 12	70		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	25-Mar-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-012
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	130		Clear Min	Clear							
pH	6-6.8	6.7		Vessel 2	127		7-7.7	7							
Conductivity (µs/cm)	1000-4500	1497		Vessel 3	107		70-500	200							
TDS (mg/l)	700-3200	1061		Vessel 4	116		50-350	130							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	143		-	12							
Mg Hardness as CaCO3(mg/l)	-	194		Vessel 6	146		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.7					-								
Cartidge inlet Pressure, bar	-	2.1					-								
Cartidge Outlet Pressure, bar	-	1.9					-								
High Pressure pump, bar	-	13.7					-								
Nitrate as NO3 (mg/l)	-	1.98					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU	STP ZONE A
Submitted by: Hamza Hayani	Date of Report: 21.03.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.13	6.11	#VALUE!
2	BOD	16.00	6.24	mg/l
3	COD	54.03	20.4	mg/l
4	TDS	906	490	mg/l
5	Ammonia as NH ⁺	25.5	9.00	mg/l
6	Nitrate as NO ₃ ⁻	51.9	17	mg/l
7	Total Phosphate as PO ₄	2.9	1.02	mg/l
8	free chlorine	NIL	NIL	mg/l
9	TOTAL OXYGEN (DO)	ND	0.92	mg/l
10	TOTAL NITROGEN (TN)	34.8	12.20	mg/l
11	Total Suspended Solids	11	1	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 21.03.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.60	6.74	#VALUE!
2	BOD	51.36	4.4	mg/l
3	COD	163	14.22	mg/l
4	TDS	807	517	mg/l
5	Ammonia as NH ⁺	26.00	11	mg/l
6	Nitrate as NO ₃ ⁻	81	25	mg/l
7	Total Phosphate as PO ₄	3.35	1.44	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.98	mg/l
10	TOTAL NITROGEN (TN)	41.71	14.86	mg/l
11	Total Suspended Solids	11	1	mg/l

Remarks:



DAM LAB
Chemist

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-051
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	-	Clear		Vessel 1	25		-	Clear							
pH	6-6.8	6.6		Vessel 2	28		7-7.7	7.3							
Conductivity (µs/cm)	1000-4500	1419					70-500	104							
TDS (mg/l)	700-3200	1003					50-350	76							
Ca Hardness as CaCO3 (mg/l)	50-300	148					-	12							
Mg Hardness as CaCO3(mg/l)	-	120					-	10							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8					-								
Cartidge inlet Pressure, bar	-	3.4					-								
Cartidge Outlet Pressure, bar	-	3.2					-								
High Pressure pump, bar	-	12.3					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.9					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All parameters are within the acceptable range.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	8-Jan-2024
Project:	Al Hasa	Mobile:	550452710	Ref:	-001
Contact Person:	Waelbadr	Email:	hisamudeen.karuvadi.ext@veolia	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	19		-	Clear							
pH	6-6.8	6.5		Vessel 2	23		7-7.7	7.6							
Conductivity (µs/cm)	1000-4500	1510					70-500	92							
TDS (mg/l)	700-3200	1070					50-350	59							
Ca Hardness as CaCO3 (mg/l)	50-300	138					-	10							
Mg Hardness as CaCO3(mg/l)	-	108					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	3.2					-								
Cartidge Outlet Pressure, bar	-	3					-								
High Pressure pump, bar	-	11.9					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.9					-	Nil							
Suspended Solids (mg/l)	-	1					-	Nil							
Total Coliforms (CFU/100 ml)	-	Nil					-	Nil							
Total Count Bacteria (CFU/ml)	-	Nil					-	Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	15-Jan-2024
Project:	Al Hasa	Mobile:	550452710	Ref:	-002
Contact Person:	Waelbadr	Email:	hisamudeen.karuvadi.ext@veolia	System(s):	RO Plant - Dental

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	-	Clear		Vessel 1	18		-	Clear							
pH	6-6.8	6.1		Vessel 2	25		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1528					-	88							
TDS (mg/l)	700-3200	1080					-	59							
Ca Hardness as CaCO3 (mg/l)	50-300	142					-	10							
Mg Hardness as CaCO3(mg/l)	-	112					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.1					-								
Cartidge inlet Pressure, bar	-	3.3					-								
Cartidge Outlet Pressure, bar	-	3.1					-								
High Pressure pump, bar	-	12.2					-								
Δ Pressure , Bar	-														
Nitrate as NO3 (mg/l)	-	3.2						Nil							
Suspended Solids (mg/l)	-	1						Nil							
Total Coliforms (CFU/100 ml)	-	Nil						Nil							
Total Count Bacteria (CFU/ml)	-	Nil						Nil							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-051
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	38		Clear Min	Clear							
pH	6-6.8	6.1		Vessel 2	59		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1228					70-500	185							
TDS (mg/l)	700-3200	861					50-350	120							
Ca Hardness as CaCO3 (mg/l)	50-300	148					-	8							
Mg Hardness as CaCO3(mg/l)	-	96					-	4							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	3.5					-								
Cartidge inlet Pressure, bar	-	2.4					-								
Cartidge Outlet Pressure, bar	-	2.1					-								
High Pressure pump, bar	-	10.4					-								
Δ Pressure , Bar	-						-								
Nitrate as NO3 (mg/l)	-	2.2					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-051
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	50		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	70		7-7.7	7.6							
Conductivity (µs/cm)	1000-4500	1557					70-500	101							
TDS (mg/l)	700-3200	1109					50-350	65							
Ca Hardness as CaCO3 (mg/l)	50-300	269					-	10							
Mg Hardness as CaCO3(mg/l)	-	190					-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02					-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.9					-								
Cartidge Outlet Pressure, bar	-	2.7					-								
High Pressure pump, bar	-	16.8					-								
Nitrate as NO3 (mg/l)	-	2.5					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-051
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.7		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	14.5		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1978		Vessel 3	14.4		70-500	495							
TDS (mg/l)	700-3200	1440		Vessel 4	14.6		50-350	345							
Ca Hardness as CaCO3 (mg/l)	50-300	226		Vessel 5	14.8		-	20							
Mg Hardness as CaCO3(mg/l)	-	210		Vessel 6	14.5		-	14							
Total Iron as Fe (mg/l)	0-0.08	0.01		Vessel 7	14.5		-	0.02							
Hydrex 4101, ppm as PO4	3-5	4.7		Vessel 8	14.8		-								
Cartidge inlet Pressure, bar	-	2.8		Vessel 9	47		-								
Cartidge Outlet Pressure, bar	-	2.6		Vessel 10	60.1		-								
High Pressure pump, bar	-	14.1		Vessel 11	49		-								
Nitrate as NO3 (mg/l)	-	2.9		Vessel 12	48		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	2-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-051
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	151		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	135		7-7.7	7.5							
Conductivity (µs/cm)	1000-4500	1519		Vessel 3	101		70-500	190							
TDS (mg/l)	700-3200	1081		Vessel 4	130		50-350	123							
Ca Hardness as CaCO3 (mg/l)	50-300	247		Vessel 5	145		-	10							
Mg Hardness as CaCO3(mg/l)	-	214		Vessel 6	155		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.02		Vessel 7	151		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.3					-								
Cartidge inlet Pressure, bar	-	2.8					-								
Cartidge Outlet Pressure, bar	-	2.5					-								
High Pressure pump, bar	-	16.6					-								
Nitrate as NO3 (mg/l)	-	3.1					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	8-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-001
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	36			Clear Min	Clear						
pH	6-6.8	6.1		Vessel 2	57			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1165						70-500	165						
TDS (mg/l)	700-3200	816						50-350	108						
Ca Hardness as CaCO3 (mg/l)	50-300	132						-	8						
Mg Hardness as CaCO3(mg/l)	-	92						-	4						
Total Iron as Fe (mg/l)	0-0.08	0.04						-	0.02						
Hydrex 4101, ppm as PO4	3-5	3.3						-							
Cartidge inlet Pressure, bar	-	2.2						-							
Cartidge Outlet Pressure, bar	-	2						-							
High Pressure pump, bar	-	10.3						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	2.1						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	8-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-001
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	48			Clear Min	Clear						
pH	6-6.8	6.4		Vessel 2	68			7-7.7	7.6						
Conductivity (µs/cm)	1000-4500	1535						70-500	99						
TDS (mg/l)	700-3200	1091						50-350	63						
Ca Hardness as CaCO3 (mg/l)	50-300	264						-	10						
Mg Hardness as CaCO3(mg/l)	-	186						-	8						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.9						-							
Cartidge inlet Pressure, bar	-	2.8						-							
Cartidge Outlet Pressure, bar	-	2.6						-							
High Pressure pump, bar	-	16.6						-							
Nitrate as NO3 (mg/l)	-	2.2						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	8-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-001
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	14.3		Clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	14.4		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1890		Vessel 3	14.3		70-500	498							
TDS (mg/l)	700-3200	1367		Vessel 4	14.5		50-350	348							
Ca Hardness as CaCO3 (mg/l)	50-300	220		Vessel 5	14.7		-	22							
Mg Hardness as CaCO3(mg/l)	-	202		Vessel 6	14.3		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.04		Vessel 7	14.1		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.8		Vessel 8	15.2		-								
Cartidge inlet Pressure, bar	-	2.3		Vessel 9	49		-								
Cartidge Outlet Pressure, bar	-	2.1		Vessel 10	62		-								
High Pressure pump, bar	-	14.1		Vessel 11	50		-								
Nitrate as NO3 (mg/l)	-	2.5		Vessel 12	49		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	8-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-001
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS			RO Product								
Appearance	clear Min	Clear		Vessel 1	152		Clear Min	Clear							
pH	6-6.8	6.2		Vessel 2	137		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1512		Vessel 3	101		70-500	200							
TDS (mg/l)	700-3200	1072		Vessel 4	128		50-350	131							
Ca Hardness as CaCO3 (mg/l)	50-300	246		Vessel 5	146		-	12							
Mg Hardness as CaCO3(mg/l)	-	212		Vessel 6	156		-	10							
Total Iron as Fe (mg/l)	0-0.08	0.07		Vessel 7	152		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.2					-								
Cartidge inlet Pressure, bar	-	2.6					-								
Cartidge Outlet Pressure, bar	-	2.3					-								
High Pressure pump, bar	-	16.2					-								
Nitrate as NO3 (mg/l)	-	2.9					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	15-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-002
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Zone A

Parameters	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	31			Clear Min	Clear						
pH	6-6.8	6.1		Vessel 2	59			7-7.7	7.1						
Conductivity (µs/cm)	1000-4500	1325						70-500	154						
TDS (mg/l)	700-3200	934						50-350	99						
Ca Hardness as CaCO3 (mg/l)	50-300	148						-	8						
Mg Hardness as CaCO3(mg/l)	-	116						-	4						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	3.6						-							
Cartidge inlet Pressure, bar	-	2.2						-							
Cartidge Outlet Pressure, bar	-	2						-							
High Pressure pump, bar	-	9.5						-							
Δ Pressure , Bar	-							-							
Nitrate as NO3 (mg/l)	-	1						-							
Suspended Solids (mg/l)	-	0						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil													

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	15-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-002
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Green Area

Parameters	Control Limits	RO Feed		Vessel TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	45			Clear Min	Clear						
pH	6-6.8	6.3		Vessel 2	65			7-7.7	7.2						
Conductivity (µs/cm)	1000-4500	1527						70-500	114						
TDS (mg/l)	700-3200	1086						50-350	73						
Ca Hardness as CaCO3 (mg/l)	50-300	260						-	10						
Mg Hardness as CaCO3(mg/l)	-	184						-	5						
Total Iron as Fe (mg/l)	0-0.08	0.05						-	0.01						
Hydrex 4101, ppm as PO4	3-5	4.9						-							
Cartidge inlet Pressure, bar	-	2.7						-							
Cartidge Outlet Pressure, bar	-	2.5						-							
High Pressure pump, bar	-	16.4						-							
Nitrate as NO3 (mg/l)	-	2.1						-							
Suspended Solids (mg/l)	-	1						-							
Total Coliforms (CFU/100 ml)	-	Nil						-							
Total Count Bacteria (CFU/ml)	-	Nil						-							

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	15-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-002
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant- Zone H

Parameters	Control Limits	RO Feed		Vessel TDS			Control Limits	RO Product							
Appearance	clear Min	Clear		Vessel 1	14.6		Clear Min	Clear							
pH	6-6.8	6.5		Vessel 2	14.8		7-7.7	7.1							
Conductivity (µs/cm)	1000-4500	1945		Vessel 3	14.8		70-500	498							
TDS (mg/l)	700-3200	1409		Vessel 4	14.9		50-350	348							
Ca Hardness as CaCO3 (mg/l)	50-300	228		Vessel 5	15.2		-	22							
Mg Hardness as CaCO3(mg/l)	-	212		Vessel 6	14.6		-	16							
Total Iron as Fe (mg/l)	0-0.08	0.05		Vessel 7	14.4		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9		Vessel 8	15.4		-								
Cartidge inlet Pressure, bar	-	2.4		Vessel 9	53		-								
Cartidge Outlet Pressure, bar	-	2.3		Vessel 10	66		-								
High Pressure pump, bar	-	14.5		Vessel 11	55		-								
Nitrate as NO3 (mg/l)	-	2.8		Vessel 12	54		-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	-	Nil					-								
Total Count Bacteria (CFU/ml)	-	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)



FIELD SERVICE REPORT

Client Name:	KFU_ JASH	VWT App Eng:	Ahmed Alsultan	Date:	15-Jan-2024
Project:	Al Hasa	Mobile:	545319623	Ref:	-002
Contact Person:	Waelbadr	Email:	ahmed.alsultan@veolia.com	System(s):	RO Plant - Cow Area

	Control Limits	RO Feed		Vessels TDS				RO Product							
Appearance	clear Min	Clear		Vessel 1	150		Clear Min	Clear							
pH	6-6.8	6.6		Vessel 2	135		7-7.7	7.2							
Conductivity (µs/cm)	1000-4500	1511		Vessel 3	100		70-500	173							
TDS (mg/l)	700-3200	1073		Vessel 4	125		50-350	112							
Ca Hardness as CaCO3 (mg/l)	50-300	244		Vessel 5	144		-	10							
Mg Hardness as CaCO3(mg/l)	-	211		Vessel 6	154		-	8							
Total Iron as Fe (mg/l)	0-0.08	0.06		Vessel 7	150		-	0.01							
Hydrex 4101, ppm as PO4	3-5	4.9					-								
Cartidge inlet Pressure, bar	-	2.5					-								
Cartidge Outlet Pressure, bar	-	2.2					-								
High Pressure pump, bar	-	16.1					-								
Nitrate as NO3 (mg/l)	-	2.7					-								
Suspended Solids (mg/l)	-	1					-								
Total Coliforms (CFU/100 ml)	Nil Max	Nil					-								
Total Count Bacteria (CFU/ml)	Nil Max	Nil					-								

Remarks / Comments:

All the parameters are within the acceptable limits.

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)

Chemicals	Store Stock (Kg)	Tank level Stock (Kg)	Present Dose (stroke x speed)	Future Dose (stroke x speed)





ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE A

Submitted by: Hamza Hayani

Date of Report: 23.01.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	6.6	6.46	#VALUE!
2	BOD	44.7	12	mg/l
3	COD	134	43.2	mg/l
4	TDS	1,124	725	mg/l
5	Ammonia as NH ⁺	2	0.33	mg/l
6	Nitrate as NO ₃ ⁻	127	43	mg/l
7	Total Phosphate as PO ₄	41	10.6	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.55	mg/l
10	TOTAL NITROGEN (TN)	30	9.89	mg/l
11	Total Suspended Solids	60	5	mg/l

Remarks:



DAM LAB
Chemist



ANALYSIS REPORT

JASH-KFU. STP REPORT

Client Name: JASH-KFU

STP ZONE H

Submitted by: Hamza Hayani

Date of Report: 23.01.2024

S.N.	Parameter	inlet	outlet	Units
1	pH	7.19	6.72	#VALUE!
2	BOD	24.25	4	mg/l
3	COD	97	16	mg/l
4	TDS	1343	702	mg/l
5	Ammonia as NH ⁺	21	0.11	mg/l
6	Nitrate as NO ₃ ⁻	36	9.10	mg/l
7	Total Phosphate as PO ₄	27	8.2	mg/l
8	free chlorine	NIL	0	mg/l
9	TOTAL OXYGEN (DO)	ND	0.55	mg/l
10	TOTAL NITROGEN (TN)	27.28	7.56	mg/l
11	Total Suspended Solids	8	1	mg/l

Remarks:



DAM LAB
Chemist