

### **Arab Center**

المركئز المعربي

For Engineering Studies

للدراسات الهندسية

#### TEST REPORT ON CHEMICAL ANALYSIS OF WATER

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Owner	Mr. Adnan Al Ramzani	Report No.	TMR10052302		
ACES Client	Mr. Adnan Al Ramzani	Date Reported	05-12-10		
Contractor	N.P	Sample No.	TMS10037636		
Consultant	N.P	Request No.	TMQ0016126		
Project No.	-	Client Reference	Fully paid in advance		
Project Name	Suitability for Drinking				
Sample Description	Water Sample Collected from Atmosphere	Sample Size	-		
Source		Sampling Date	27-11-10		
Sample Location		Sampling Cert. No.	-		
Lot No.	N.P.	Sampling Method	N.P.		
Lot Size	N.P.	Sampled By	Client's Rep.		
Test Method Var.	-	Sample Brt, In By	Client's Rep.		
	10.1	Date Received	27-11-10		
Tested By:	Ariel	Date Tested	05-12-10		

#### Test Results:

Tests	Test Method	Test Results	Limit WHO
pH Value	APHA 4500 H <sup>+</sup> B	7.2	6,5-9.2
Calcium, mg/l	APHA 3500-CA B	17.78	200
Magnesium, mg/l	APHA 3500-Mg B	1.79	150
Sodium, mg/l	US EPA 3005 A	2.984	-
Potassium, mg/l	US EPA 3005 A	0.7527	
Chloride, mg/l	APHA 4500 CIB	16.03	600
Sulphate, mg/l	BS 1377:1990: Part 3	16.81	400
Carbonate, mg/l	APHA 2320 B	Nil	ä
Bicarbonate, mg/l	APHA 2320 B	33.59	
Iron , mg/l	US EPA 3005 A	0.1171	14
Total Chlorine, mg/l	Hach Method 10060	0.04	17
Fluoride, mg/l			*
Zink, mg/l	US EPA 3005 A	1.177	-
Bromate, mg/l			*
Copper, mg/l	US EPA 3005 A	0.0744	-
Nitrate, mg/l	HANNA HI 3874 Nitrate Test Kit	< 5	
E. Coli (MPN/100ml)	APHA 9223B/IDEXX COLISURE)	Nil	Nil
Total Coliform (MPN/100ml)	APHA 9223B/IDEXX COLISURE)	Nil	Nil
Turbidity, mg/l	APHA 2130 B	Nil	5
Total Hardness, mg/l	APHA 2340 C	49.05	500
Total Dissolved Solids, mg/l	APHA 2540 C	111	1500

<sup>\*</sup> To be forwarded















#### SUPREME COUNCIL OF HEALTH

# CENTRAL LABORATORIES, FOOD CONTAMINATION MONITORING Laboratory Report on Water Examination

and Address of Sender: Sender's Ref.No:3707 EVENTIVE SERVICES Lab.Ref.No: DW\3787\10 The of Sample: DRINKING WATER The Collected: C/O ADNAN AL-NAIMI The of collection/production: 01/12/10 The of arrival at lab: 01/12/10	Total Solids at $180^{\circ}\text{C}$ Total Hardness as $\text{CaCO}_3$ Total Alkalinity as $\text{CaCO}_3$ BOD  COD  Total Mardness as $\text{CaCO}_3$ Total Alkalinity as $\text{CaCO}_3$ Total Alkalinity as $\text{CaCO}_3$ Total Column Free (as $\text{Cl}_2$ )  Total (as $\text{Cl}_2$ )  Total (as $\text{Cl}_2$ )	
erature: °C at time of collection erance : Suspended matter. Edity : 1.63 N.T. units. Colour: _ 18 Hazen Units E : INOFFENSIVE Taste: E.cond.: _ 95 _ \mu S/cm.	Albuminoid Nitrogen (as N)  Total Silica (as SiO <sub>2</sub> )  Phenolic Compounds (as Phenol)  Anionic Detergents (as ABS)  Polynuclear Aromatic Hydrocarbons (PAH)  Total oils and grease	-
DNS  mg/l   meq/l    ANIONS  mg/l   meq/l    T	OXIC SUB.   mg/1   MICROBIOL. EXAM   REMARKS	
+ <0.001 1.29 0.26 	Arsenic Cadmium Cyanide Lead Mercury Selenium Cotal Coliforms/100ml= NIL Pseudomonas aeruginosa =  OTHER ANALYSIS	abl

Cantral Food Laboratories
Public Health Dept.
upreme Council Of Health
Doha Qatar

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Client: Adnan Al-Ramzani

Exova Ref.: QL1257-10 CS 2876

08 December 2010

Client's	Sample Reference		Water Sample
XOVA	Sample Reference		CS 2876
Item	Test Parameter	Test Method	Results
1.	pH Value	APHA 4500 H <sup>+</sup> B	7.61
2.	Total Dissolved Solids (TDS), mg/L	APHA 2540 B	63.2
3.	Total Hardness as CaCO <sub>3,</sub> , mg/L	APHA 2340	30.59
4.	Bromate, µg/L	Chem 3020 A GRP (IC)	8.5
5.	Bicarbonate (HCO <sub>3</sub> -), mg/L	APHA 2320 B	48.2
6.	Sulphate (SO <sub>4</sub> ), mg/L	APHA 4500 SO <sub>4</sub> B	4.9
7.	Chloride (CI) , mg/L	APHA 4500 CI	8.99
8.	Fluoride (F <sup>-</sup> ), mg/L	HACH 8029	0.33
9.	Nitrate (NO <sub>3</sub> ) , mg/L	HACH 8171	0.8
10.	Chlorine Residual , mg/L	HACH 8021	0.1
11.	Silica, mg/L	APHA 3120 B / ICP	< 0.197
12.	Sodium (Na), mg/L	APHA 3120 B / ICP	2.79
13.	Calcium (Ca) , mg/L	APHA 3120 B / ICP	11.51
14.	Magnesium (Mg) , mg/L	APHA 3120 B / ICP	0.45
15.	Potassium (K) , mg/L	APHA 3120 B / ICP	0.74
16.	Iron (Fe) , mg/L	APHA 3120 B / ICP	<0.060
17.	Zinc (Zn), mg/L	APHA 3120 B / ICP	2.87
18.	Copper (Cu) , mg/L	APHA 3120 B / ICP	0.018
19.	Nickel (Ni), mg/L	APHA 3120 B / ICP	< 0.015

Bromate was tested in Exova-Dubai with Lab Ref. No. WR10-14957, Request No. WQ10-08677 Date tested: 05.12.2010

For and on behalf of EXOVA (Qatar) LLC

Tested By: GNK; Date tested: 28 November - 07 December 2010

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STATE OF QATAR **Ministry of Environment Department of Central Laboratories** Central Agricultural Laboratory



#### WATER CHEMICAL ANALYSIS

FOR:

1

Sample

52/2010

Well No.:

السيد / عدنان فهد راشد الرمزاني : Area

Date Sampled:29/11/2010

Date Analysis: 7/12/2010

Lab. No.	Serial	Sample	рН	E.C.	T.D.S.	An:	ions Me	q/L		Ca	tions Me	q/L	
	No.	No.		MS/Cm	ppm	CO <sub>3</sub>	HCO <sub>3</sub>	Cl	SO <sub>4</sub>	Ca	Mg	Na	K
148	1	1	6.25	0.1548	92.9	0.00	0.64	0.21	0.47	1.08	0.02	0.19	0.02
	V 6												

= Elecrical conductivity M.Mhos/cm (at 25C) E.C.

T.D.S. = Total disolved solid

SAR = Sodium adsorption Ratio

Head of Central Agricultural Laboratory

Specialist: M.AL.FAR



## Water Chemical Analysis (2)

For: 1

Sample

52/2010

Farm No.:

السيد / عدنان فهد راشد الرمزاني : Area

Date Sampled: 2 9/11/2010

Date Analysis 7 / 12/2010

Lab		:	Anion					Trace Elements									
No No.	NH4- N PPM	NH3. N PPM	NO3-N PPM	NO2-N PPM	N PPM	Al PPM	Cr PPM	Mn PPM	Fe PPM	Co PPM	Ni PPM	Cu PPM	Zn PPM	Pb PPM	Hg PPM		
148	1						0.0073	0.00005	0.0078	0.1059	0.0039	0.0004	0.0120	2.2005	0.0009	0.000002	

ND = No Detection

وزيران المنترات الدوري

Head of Central Agricultural Laboratory

Specialist: M.AL-FAR