



WATER ANALYSIS

*Work
Days*

Agricultural:

Ag Suitability: pH, EC, Cl, HCO ₃ +CO ₃ , SO ₄ , NO ₃ -N, SAR, SAR _{adj} , LI, Dissolved: Ca, Mg, B, Na, Fe, Mn	5
pH Titration Curve (7.0, 6.8, 6.5, 6.0, 2.0)	7

Regional Board Area 3

RB3 w/GeoTracker (Ag Suit w/Homeowner1) Submitted	8
RB3 w/GeoTracker (Ag Suit w/Homeowner1) Collected	8
RB3 only (Ag Suit w/Homeowner1) Submitted	8
RB3 only (Ag Suit w/Homeowner1) Collected	8

Wastewater Analysis:

Wastewater General Mineral: Alkalinity (OH, CO ₃ , HCO ₃), EC, SO ₄ , Cl, pH, TDS, Calculated Total Hardness, Corrosivity, Total: P, K, Ca, Mg, Na, Fe, Mn, Cu, Zn; No MBAS	15
Storm Water Runoff: EC, pH, TSS, Oil & Grease	12
EC, pH, TSS, TOC	10
Total Metals: Cu, Pb, Hg	15

Dairy Water Analysis:

Process Water Analysis:

DPW1: EC, pH, NO ₃ -N, NH ₄ -N, TKN, TDS, TP, TK	12
DPW2: DPW1 plus HCO ₃ , CO ₃ , Cl, SO ₄ , Total: Ca, Mg, Na	15
*NH ₄ -N will be run if Field NH ₄ -N is detected	

Well Water Analysis:

DWW1: EC, pH, NO ₃ -N, Field NH ₄ -N*	10
DWW2: DWW1 plus HCO ₃ , CO ₃ , Cl SO ₄ , Dissolved: Ca, Mg, Na	10
*NH ₄ -N will be run if Field NH ₄ -N is detected	10

Canal Water Analysis:

DCW1: EC, NO ₃ -N, TKN, TN, TDS	15
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Bacteriology Water and Swab Analyses

Bacteriological - Water

	<i>Method</i>	<i>Work Days</i>
Coliform, E. coli, P/A	SM 9223	6
Coliform, E. coli, P/A w/Cl ₂		6
Coliform, E. coli, MPN	SM 9223	7
Coliform, E. coli, MPN w/Cl ₂		
Coliform, Fecal, E. coli, MPN (1x10)		7
<i>Weekend (Friday):</i> Coliform, E. coli, P/A		5
Coliform, E. coli, MPN		5
Coliform, Fecal, E. coli, MPN (1x10)		5
E. coli 0157:H7, P/A		8
Listeria, Genus, P/A		7
Salmonella, P/A		7

Bacteriology – Swab Analyses

Coliform, E. coli, MPN	Petrifilm	7
Listeria, Genus, P/A		7
Salmonella, P/A		7
E. coli, 0157:H7, P/A		7
APC (Aerobic Plate Count)		14
Swab Kit includes glove and treated sponge (per kit)		
Pack of 20 Swab Kits (per pack)		

Homeowner – Nonregulatory

HO1: Alkalinity, EC, Ca, Cl, Fe, Mg, NO ₃ , NO ₃ -N, Na		6
HO2: HO1 plus TDS _{est} , K, Cu, Zn		10

<u>General Mineral:</u> Alkalinity (OH, CO ₃ , HCO ₃), EC, SO ₄ , Cl, pH, MBAS, TDS, Calculated Total Hardness, Corrosivity, Dissolved: Ca, Mg, Na, Fe, Mn, Cu, Zn		10
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<u>General Physical:</u> Color, Odor, Turbidity		3
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<u>Copper and Lead</u> (First-draw)		15
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<u>Inorganic Chemical Scan I:</u> Al, Sb, As, Ba, Be, Cd, Cr, F, Pb, Hg, Ni, NO ₃ , NO ₂ -N, Se, Ag, Tl		20
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<u>Inorganic Chemical Scan II:</u> Inorganic Chemical Scan I plus Cyanide		20
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Radioactivity

Gross Alpha		14	
Uranium			14
Total Radium 223, 224, 226		14	
Radium 226		28	
Radium 228		28	

Synthetic Organic Chemicals

Organic EPA 504: Ethylene dibromide (EDB), Dibromochloropropane (DBCP)		10
Organic EPA 507: Alachlor, Atrazine, Molinate, Simazine, Thiobencarb		15
Organic EPA 508: Endrin, Lindane, Methoxychlor, Toxaphene, Chlordane, Heptachlor, Heptachlor epoxide		15
Organic EPA 515: Bentazon; 2,4-D; 2,4,5-TP		15
Organic EPA 525: Screen includes EPA 507		15
Organic EPA 531: Carbofuran		10
Organic EPA 547: Glyphosate		15
Organic EPA 548: Endothall		15
Organic EPA 549: Diquat		15

Volatile Organic

EPA 524 Regulated & Unregulated			15
Partial List: 1,1,1-Trichloroethane; Trichloroethylene; 1,1-Dichloroethylene; Benzene; Xylenes; Monochlorobenzene; Ethylbenzene; 1,3-Dichloropropene; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; 1,2-Dichloroethane; Vinyl chloride; Carbon tetrachloride; 1,4-Dichlorobenzene; 1,1,2-Trichloroethane; Cis-1,2-Dichloroethylene; Trans-1,2-Dichloroethylene; 1,1-Dichloroethane; 1,2-Dichloropropane; Trichlorofluoromethane (Freon 11); 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)			

INDIVIDUAL WATER ANALYSIS

	Method	Work Days	
<u>Individual Water Analysis:</u>			
Acidity (as CaCO ₃)	SM 2310-B	5	
Alkalinity (as CaCO ₃)	SM 2320-B/EPA 310.1	5	
Aluminum (Al)	SM 3120-B/EPA 200.7	5	
Asbestos	EPA 100.2	10	
Arsenic (As)	EPA 200.8	15	
Barium (Ba)	SM 3120-B/EPA 200.7	5	
Beryllium (Be)	SM 3120-B/EPA 200.7	5	
Boron (B)	SM 3120-B/EPA 200.7	5	
Bromate (BrO ₃)		10	
Bromide	EPA 300.1	10	
Cadmium (Cd)	SM 3120-B/EPA 200.7	5	
Calcium (Ca)	SM 3120-B/EPA 200.7	5	
Carbon, Total Organic (Non Purgeable Organic Carbon)	EPA 415.1	6	
Carbonate and Bicarbonate (CO ₃ and HCO ₃)	SM 2320-B	5	
Chloride (Cl)	SM 4500-Cl B/EPA 300.0	5	
Chromium (Cr), Total	SM 3120-B/EPA 200.7	5	
Total (1 ppb)	EPA 200.8	15	
Hexavalent (Cr VI)	EPA 218.6	15	
Color	SM 2120-B		3
Copper (Cu), Domestic	SM 3120-B/EPA 200.7	5	
DBCP	EPA 504	10	
Electrical Conductivity (EC), Specific Conductance	SM 2510-B	4	
Fluoride (F) (Wastewater)	EPA 300.0	5	
Hardness (Calculation from Ca+Mg)	SM 2340-B	5	
Haloacetic Acids (HAA ₅)	SM6250	5	
Iron (Fe)	SM 3120-B/EPA 200.7	5	
Lead (Pb)	EPA 200.8	15	
MTBE	EPA 502/EPA 524	15	
Magnesium (Mg)	SM 3120-B/EPA 200.7	5	
Manganese (Mn)	SM 3120-B/EPA 200.7	5	
Mercury (Hg)	EPA 7470 or 7471	15	
Molybdenum (Mo)	SM 3120-B/EPA 200.7	5	
Nickel (Ni)	SM 3120-B/EPA 200.7	5	
Nitrogen: Ammonia (NH ₄ -N)	SM 4500-NH ₃ H	10	
Un-ionized (NH ₃ -N) (calc: pH, FieldTemp)	calc	10	
Nitrate (NO ₃ -N)	SM 4500-NO ₃ F	5	
Nitrite (NO ₂ -N)	SM 4500-NO ₂ B/EPA 300.0	5	
Organic (Org N) (TKN + NH ₄ -N)	calc	10	
Kjeldahl (TKN)	SM 4500-NH ₃ C	10	
Total N (NO ₃ -N + TKN)	calc	10	
Odor, Threshold	SM 2150-B	3	
Oil & Grease	EPA 1664	10	
Oxygen, Dissolved (DO)	SM 4500-O B	10	
Oxygen Demand, Biochemical (BOD ₅)	SM 5210-B	7	
Soluble	SM 5210-B	7	
Oxygen Demand, Chemical (COD)	SM 5220-C	7	
pH value	SM 4500-H B		4
Perchlorate	EPA 314.0	12	
Phosphorus: Ortho (PO ₄ -P)	EPA 300.0	5	
Total (%P, digested)	SM 4500P-F	7	
Potassium (K)	SM 3120-B/EPA 200.7	5	

INDIVIDUAL WATER ANALYSIS (continued)

	<i>Method</i>	<i>Work Days</i>
<u>Individual Water Analysis (continued):</u>		
Residue: Identification		15
Selenium (Se)	EPA 200.8	15
Sheathed Bacteria		15
Silica (Total) (SiO ₂)	SM 3120-B/EPA 200.7	5
Silver (Ag)	SM 3120-B/EPA 200.7	5
Sodium (Na)	SM 3120-B/EPA 200.7	5
Solids: Total (Total Solids)	SM 2540-B	7
Total Filterable (Total Dissolved Solids)	SM 2540-C	7
Volatile Dissolved Solids (VDS)	SM 2540-E	9
Fixed Dissolved Solids (FDS)	SM 2540-E	9
Total Nonfilterable (Total Suspended Solids)	SM 2540-D	7
Settleable Matter (Settleable Solids)	SM 2540-F	5
Sulfate (SO ₄)	EPA 300.0	5
Sulfur (S)	SM 3120-B/EPA 200.7	5
Surfactants (MBAS)	SM 5540-C	5
Thallium (Tl)	EPA 200.8	15
Trihalometehanes, Total (TTHM)	EPA551	10
Turbidity	SM 2130-B	3
Vanadium (V)	EPA 200.8	15
Zinc (Zn)	SM 3120-B/EPA 200.7	5