

New Public Water Systems

To aid you in submitting a complete application to the Bureau of Safe Drinking Water (BSDW), here is a brief summary of the information and data requirements that comprise the public water system permitting process. Please keep in mind that this summary, while reasonably complete, may not necessarily enumerate every requirement contained in NAC 445A, "Public Water Systems Design, Construction, Operation and Maintenance". You are encouraged to review this and other regulations to personally ascertain applicable sections.

The process of securing a permit to operate a **non-transient non-community public water system** in Nevada is four fold:

1. Design and construction of facilities and components of the water system must be in accordance with State requirements, detailed in NAC 445A "Public Water Systems Design, Construction, Operation and Maintenance".
2. Water quality must conform to drinking water standards, per NAC 445A "Public Water Systems Water Quality".
3. The water system owner must demonstrate that he/she has the required technical, managerial and financial capability to operate the water system, as specified by NAC 445A, LCB File No. R073-99. Among other information, this regulation prescribes that the following plans be submitted:
 - a) cross-connection control (backflow)
 - b) emergency
 - c) operation and maintenance
 - d) information related to the policies and procedures of the water system, as well as budgetary and financial plans, must also be submitted for review and approval prior to permitting.
4. An operator, certified by BSDW, must be in charge of the water system.

Any existing water system components of an un-permitted water system are not "grandfathered" or exempted from design and construction regulations. A Nevada professional engineer must provide BSDW with plans and specifications of sufficient detail to determine whether or not any "as-built" facilities are adequate. This also applies to well construction, should the well already be fitted with a pump and discharge piping.

Information related to the policies and procedures of the water system, as well as budgetary and financial plans, must also be submitted for review and approval prior to permitting.

Among additional information required is the following:

Design Report

- a) Provide a design report that describes the proposed water system, the basis of design, criteria for supply and demand, etc.
- b) Provide a network hydraulic analysis of the water system, which serves to size water system components and ensures that performance standards are met.

Source Water

- a) Provide evidence of water rights of acceptable amount and character.

- b) Provide a well log of any existing wells intended for use to verify the presence or absence of a sanitary seal and to depict casing information. Note that existing facilities are not "grandfathered".
- c) Provide well construction details, drawn as part of the plans, including wellhead piping and equipping details (venting, well-to-waste, valves, piping, sampling tap, access tube, air relief, etc.). Verify that well casing is at least 18 inches above grade or not subject to flooding.
- d) Maintain well separation criteria from sources of pollution or contamination. Provide detail suitable for inclusion in the "Source Water Assessment Program".

Storage

Provide plans and specifications for any new storage tank that address the requirements of NAC 445A.67065 through 445A.67095 inclusive. Provide calculations used to size tank overflow. Provide lockable access hatch and cage, hand rails, correct sized screening on vents, angled flapper or air gap on discharge and overflow lines, silt stop, sampling tap, staff gauge, 30-inch man ways, NSF approved coating, etc. Specify VOC and total coliform sampling per NAC. Specify telemetry system and controls to monitor, alarm, and regulate storage.

Specify additional design criteria for any new tank:

- a) seismic zone
- b) snow loading
- c) wind loading and exposure
- d) soils report

After conceptual approval of any storage facilities by BSDW, please provide this office with professionally engineered calculations for the tank structure and foundation when they become available after bid award.

Water Treatment

Are provisions for chlorination proposed? If so, provide design information. An emergency eyewash station would be required, per OSHA. Propose appropriate treatment for any constituents that don't meet State Drinking Water Standards. Submit plans and specifications.

Pump Station

Provide a design of any pumping facilities/pump house, which complies with NAC 445A.66965 through NAC 445A.6706 inclusive. Provide details of pumping facilities/pump house in plan and profile, which depict components, dimensions, and placement. Provide architectural and structural details of pump house per NAC 445A.66985. Provide an electrical plan. Provide a slab reinforcing detail.

Distribution System

Provide required isolation valves. Provide plan and profile of water lines. Provide for air releases as required. Maintain required water line/sewer line separations, including those for laterals. Provide a separation standard detail. Specify angle fittings to accomplish pipe bends, rather than bending the pipe beyond the manufacturer's approved bending radius. Provide standard details of corp stops and curb stops or meter stops on the service lines. Include backflow prevention, as

appropriate. Be sure to isolate process, fire and irrigation water from potable water. The distribution system is to be looped, if possible.

Disinfection and Testing

Specify disinfection of distribution lines per AWWA Standard C-651 and pressure testing per AWWA Standard C-605.

Water Quality

Data will need to be provided from the source. Required water quality sampling data are summarized as follows: Regulated Phase I, II, and V Volatile Organics, Regulated Phase II and V Synthetic Organics, Regulated Phase II and V Inorganics, Dioxin, Lead and Copper, Arsenic, Secondary Drinking Water Standards, Total Coliform and Fecal Coliform/E. Coli. Water quality samples may be composited by a certified laboratory.

Technical, Managerial, Financial Capability

Fill out enclosed forms.

Water Well Location

Plot on a map all potential sources of pollution or contamination within 150 feet of the well.

Vulnerability Assessment (voluntary)

Identify all potential sources of pollution or contamination to groundwater within a 3,000 foot radius of the well on a 1:24,000 USGS topographic map (7.5-minute map). Refer to the attached example and list of potential contaminant sources. Based upon a determination by BSDW of the susceptibility of the well to contamination, BSDW may authorize a reduction in the frequency for water quality monitoring of the source for the presence of certain contaminants.

A copy of "REGULATIONS FOR PUBLIC WATER SYSTEMS" NAC 445A.450 TO 445A.6731 may be downloaded from <http://www.leg.state.nv.us/NAC/NAC-445A.html>.

Please call Jim Balderson at 775-687-9517 for additional information.

Attachments: Application for Approval of a Water Project
Potential Contamination Sources
State Certified Methodologies
Attachment 1 - Plan to Permit a Public Water System

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER**

901 S. STEWART STREET, SUITE 4001
CARSON CITY, NV 89701
PHONE: 775-687-9520; FAX: 775-687-5699

2030 E. FLAMINGO RD. STE.230
LAS VEGAS, NV 89119
PHONE: 702-486-2850 x 254; FAX: 702-486-2863

APPLICATION FOR APPROVAL OF A WATER PROJECT

Name of Applicant:	Phone #:
Address:	Email:
	Fax #:

Is this project to permit a privately owned community (residential) system? Yes No
 Is this an expansion of a water system that is regulated by the PUC? Yes No
 Are engineered water system plans & specs submitted with this application? Yes No

County in which the public water system will be located:

System Name:	Owner Name:
System Address:	Owner Address:
System Phone:	Owner Phone:
System Emergency Phone:	Owner Emergency Phone:
System Fax #:	Owner Fax #:
	Owner Email:

Public Water System Type: Community NTNC TNC
 PWS Ownership Type: Public Private Homeowner Federal GID Other:

Population Served:	# of Service Connections:	# of Metered Connections:
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Fire Flow:
 Does the fire authority require fire flow? Yes No If yes, flow rate per hour (gpm):

Source Type:

Groundwater well <input type="checkbox"/> Yes <input type="checkbox"/> No	Groundwater Spring <input type="checkbox"/> Yes <input type="checkbox"/> No
Surface Water Intake <input type="checkbox"/> Yes <input type="checkbox"/> No	Spring UDI <input type="checkbox"/> Yes <input type="checkbox"/> No
Purchased Water <input type="checkbox"/> Yes <input type="checkbox"/> No	System has water rights? <input type="checkbox"/> Yes <input type="checkbox"/> No
Source(s) master metered? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Source Location:

Meets flood plain requirements? Yes No
 All sources of potential pollution are identified? Yes No
 No sources of contamination within 150 ft? Yes No

Well Characteristics:

Casing Depth (ft.):	Pump Type:
Casing Diameter (in):	Max. Production (gpm):
Sanitary Seal Depth (ft):	Source Design Capacity (gpm):
Emergency Power Provided? <input type="checkbox"/> Yes <input type="checkbox"/> No	Average Daily Demand (gpm):
Describe Emergency Power:	Emergency Source Capacity (gpm):

NDEP / BSDW Application for Approval of a Water Project - Page 2

Source Water Quality:

Meets all NAC requirements? Yes No
Requires treatment to meet requirements? Yes No

Contaminant(s) that require treatment:
Approved treatment process:
Plant production flow rate (gpm):

Please attach a flow diagram from source through treatment to the distribution system.

Emergency, Cross Connection, and Operation and Maintenance Plans have been submitted? Yes No

Storage Characteristics:

Storage tank type and material:
Tank capacity (gallons):
Storage tank coating material:

Transmission/Distribution System Characteristics:

Approved pipe material type:
Distribution main size(s):
Linear feet of pipe:
Distribution system pressure range(s):
Number of pressure zones:

Booster Pump Stations:

Pump Type:	# of pumps:
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Inter-Ties:

Name of other system:	Date of inter-tie:
Is the inter-tie for emergency use only? <input type="checkbox"/> Yes <input type="checkbox"/> No If No, explain:	

Disinfection:

Type of disinfectant used:

NSF approved chemicals used? Yes No
Disinfection equipment is NSF approved? Yes No
Does the system use continuous automatic disinfection? Yes No

Where are the disinfection systems located and where are the chemicals stored?

Program to Assess Vulnerability, NAC 445A.6668, (optional):

Was a completed vulnerability assessment submitted for all sources? Yes No
Does the document contain sufficient information to issue monitoring waivers? Yes No
Are all of the potential contaminant sources located on the ten year capture zone map? Yes No

What method of delineation of the well capture zone was used?
(ie: 3000 Foot Fixed Radius, WHPA, WHAEM)

*Please note all sources of contamination for the ten year capture zone map must be plotted on a 1:24,000 U.S.G.S. Quad Map (7.5-minute map)

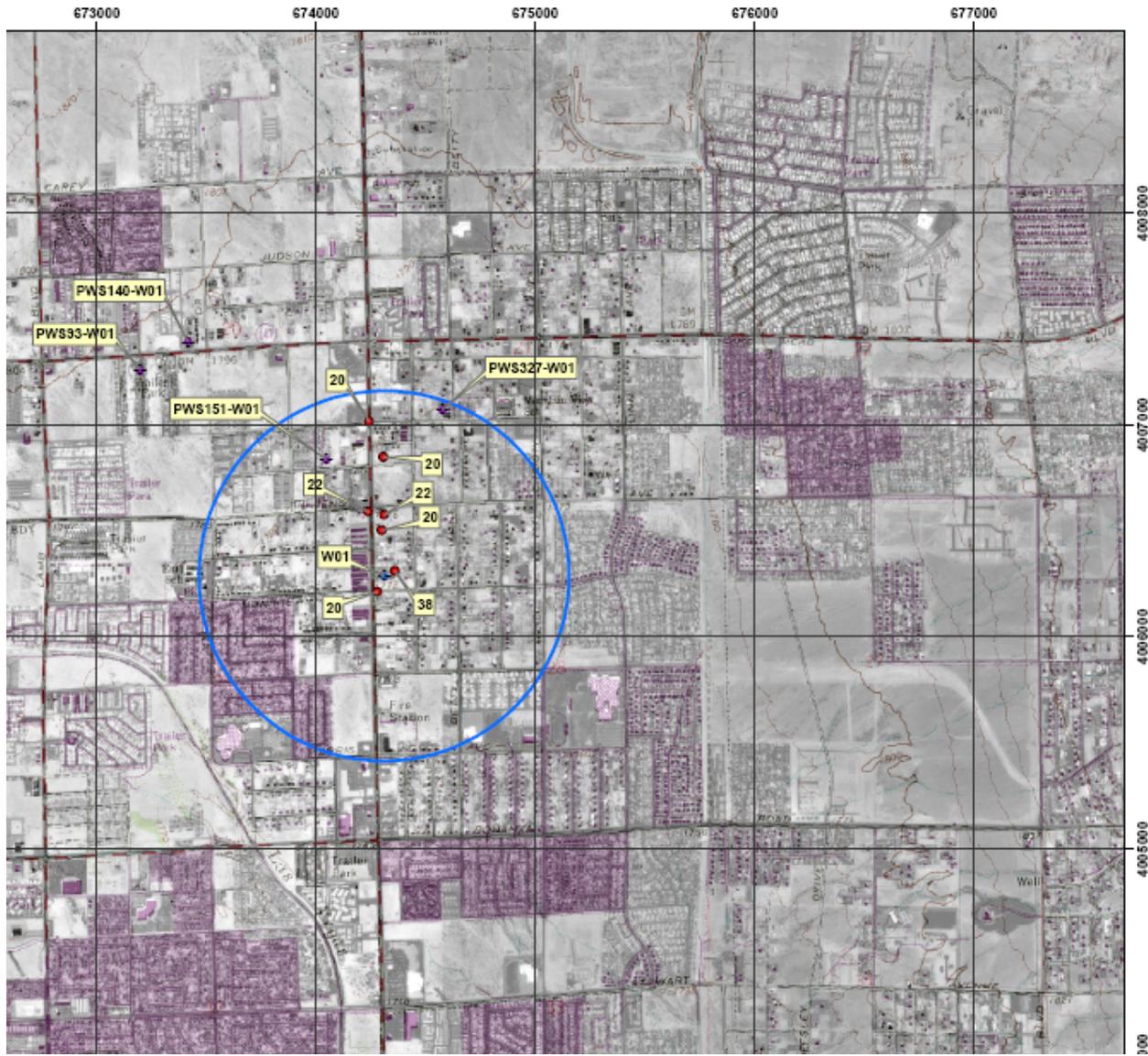
POTENTIAL CONTAMINATION SOURCES

(* Denotes GPS location required)

Agricultural		Contaminant Category	Risk Ranking Category		Medical/Educational	Contaminant Category	Risk Ranking Category
1	Animal burial areas	C, D	High	28	Educational institutions (labs, lawns, & chemical storage areas)	B, C	Moderate
2 *	Animal feedlots	B, C, D	High, in Zone A; otherwise moderate				
3	Chemical application (e.g. pesticides, fungicides, & fertilizers)	C, B	High	29	Medical institutions (medical dental, vet offices)	D, E	Low
4 *	Chemical mixing & storage areas (including rural airports)	A, B, C	High	30 *	Research laboratories	A, B, C, D, E	High
5	Irrigated fields	B	Moderate		Storage		
	Irrigation ditches	C	High				
6	Manure spreading & pits	A, C	Moderate	31 *	Aboveground storage tanks	A, B	High
7 *	Unsealed irrigation wells	A, B, C, D	High	32 *	Underground storage tanks	A	High
				33	Public storage	A	Low
				34 *	Radioactive materials storage	E	High
	Industrial						
8 *	Chemical manufacturers, Warehousing/distribution activities	A, B, C	High		Municipal waste		
9 *	Electroplaters & fabricators	C	High	35 *	Dumps and landfills (historical/active)	A, B, C, D, E	High
10 *	Electrical products & manufacturing	C	High	36	Municipal incinerators	B, C, D	Moderate
11 *	Machine & metalworking shops	A	High	37 *	Recycling & reduction facilities	C	High
12 *	Manufacturing sites	A, B, C	High	38 *	Scrap & junkyards	A, C	High
13 *	Petroleum products production, Storage & distribution centers	A	High	39 *	Septage Lagoons, wastewater treatment plants, injection wells	A, B, C, D	High
				40 *	Sewer Transfer Stations	A, B, C, D	High
	Commercial						
14 *	Dry cleaning establishments	A	High	41 *	Airports	A	High
15 *	Furniture & wood stripper & Refinishers	A	High	42 *	Asphalt plants	A	High
				43	Boat yards	A	High
16 *	Jewelry & Metal plating	C	High	44	Cemeteries	D	Moderate
17	Laundromats	C	Low	45	Construction areas	A	Moderate
18 *	Paint shops	A	High	46 *	Dry wells	A, D	High
19 *	Photography establishments & Printers	C	High	47 *	Fuel storage systems	A	High
				48	Golf courses, parks & nurseries (chemical application)	B, C	High
				49	Mining (surface & underground)	A, C	High
20 *	Auto repair shops	A, C	High	50	Pipelines (oil, gas, coal slurry)	A	High
21	Car washes	A, C, D	Moderate	51 *	Railroad tracks, yards & maintenance	A, B, C, D	High
22 *	Gas stations	A, C	High	52	Surface water impoundments, streams/ditches	D	High
23	Road deicing operations: storage & Application areas (e.g. road salt)	C	Moderate				
24 *	Road maintenance depots	A, C	High	53 *	Stormwater drains & retention basins	A, B, C, D, E	High
				54 *	Unplugged abandoned well	A, B, C, D	High
				55 *	Well: operating	A, B, C, D	High→Low
				56	Other – please specify		
	Residential						
25	Household hazardous products	A, B, C	Moderate				
26	Private wells	A, B, C, D	Moderate				
27	Septic systems, cesspools	B, C, D	High, if Zone A; otherwise moderate				

Contaminant Categories:

A = V.O.C.
B = S.O.C.
C = I.O.C.
D = MICROBIOLOGICAL
E = RADIONUCLIDES



Legend

- ◆ PWS Wells
- ◆ Other PWS Wells
- PCS Locations
- 3,000 Foot Fixed Radius

Public Water System (PWS) Wells are denoted by their respective BHPS Tag Number.

Potential Contaminant Sources (PCS) are denoted by source type code on this map and are described in the Risk Ranking and Vulnerability Process section of the attached report.

PCS30 - Auto Repair Shops
 PCS32 - Gas Stations
 PCS38 - Scrap and Junkyards



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**REGULATED SYNTHETIC ORGANIC CHEMICALS (SOCs)
40 CFR 141.61 (c)**

PHASE II

	Contaminant	Method	MCL (mg/L) parts per million	MCL (µg/L) parts per billion
(1)	2051 ALACHLOR	505, 507, 525.2, 508.1, 551.1	0.002	2
(2)	2050 ATRAZINE	505, 508.1, 525.2, 551.1	0.003	3
(3)	2046 CARBOFURAN	531.1, 6610	0.04	40
(4)	2959 CHLORDANE	505, 508, 525.2, 508.1	0.002	2
(5)	2931 DIBROMOCHLOROPROPANE	504.1, 551.1	0.0002	0.2
(6)	2946 ETHYLENE DIBROMIDE	504.1, 551.1	0.00005	0.05
(7)	2065 HEPTACHLOR	505, 508, 525.2, 508.1, 551.1	0.0004	0.4
(8)	2067 HEPTACHLOR EPOXIDE	505, 508, 525.2, 508.1, 551.1	0.0002	0.2
(9)	2010 LINDANE	505, 508, 525.2, 508.1, 551.1	0.0002	0.2
(10)	2015 METHOXYCHLOR	505, 508, 525.2, 508.1, 551.1	0.04	40
(11)	2383 POLYCHLORINATED BIPHENYLS	508A	0.0005	0.5
(12)	2326 PENTACHLOROPHENOL	515.2, 525.2, 555, 515.1, 515.3, 515.4	0.001	1
(13)	2020 TOXAPHENE	505, 508, 525.2, 508.1	0.003	3
(14)	2105 2,4-D	515.2, 555, 515.1, 515.3, 515.4, D5317-93	0.07	70
(15)	2110 2,4,5-TP (Silvex)	515.2, 555, 515.1, 515.3, 515.4, D5317-93	0.05	50

PHASE V

(1)	2306 BENZO(a)PYRENE	525.2, 550, 550.1	0.0002	0.2
(2)	2031 DALAPON	552.1, 552.2, 515.1, 515.3, 515.4	0.2	200
(3)	2035 DI(2-ETHYLHEXYL)ADIPATE	506, 525.2	0.4	400
(4)	2039 DI(2-ETHYLHEXYL)PHTHALATE	506, 525.2	0.006	6
(5)	2041 DINOSEB	515.2, 555, 515.1, 515.3, 515.4	0.007	7
(6)	2032 DIQUAT	549.2	0.02	20
(7)	2033 ENDOTHALL	548.1	0.1	100
(8)	2005 ENDRIN	505, 508, 525.2, 508.1, 551.1	0.002	2
(9)	2034 GLYPHOSATE	547, 6651	0.7	700
(10)	2274 HEXACHLOROBENZENE	505, 508, 525.2, 508.1, 551.1	0.001	1
(11)	2042 HEXACHLOROCYCLOPENTADIENE	505, 525.2, 508, 508.1, 551.1	0.05	50
(12)	2036 OXAMYL (VYDATE)	531.1, 531.2, 6610	0.2	200
(13)	2040 PICLORAM	515.2, 555, 515.1, 515.3, 515.4	0.5	500
(14)	2037 SIMAZINE	505, 507, 525.2, 508.1, 551.1	0.004	4
(15)	2063 2,3,7,8-TCDD (DIOXIN)	1613	3 x 10 ⁻⁸	

**REGULATED VOLATILE ORGANIC CHEMICALS (VOCs)
40 CFR 141.61 (a)**

PHASE I AND II

	Contaminant	Method	MCL (mg/L) parts per million	MCL (µg/L) parts per billion
(1)	2990 BENZENE	502.2, 524.2	0.005	5
(2)	2982 CARBON TETRACHLORIDE	502.2, 524.2, 551.1	0.005	5
(3)	2989 CHLOROBENZENE	502.2, 524.2	0.1	100
(4)	2968 1,2-DICHLOROBENZENE (ortho-)	502.2, 524.2	0.6	600
(5)	2969 1,4-DICHLOROBENZENE (para-)	502.2, 524.2	0.075	75
(6)	2980 1,2-DICHLOROETHANE	502.2, 524.2	0.005	5
(7)	2978 1,1-DICHLOROETHYLENE	502.2, 524.2	0.007	7
(8)	2380 CIS-1,2-DICHLOROETHYLENE	502.2, 524.2	0.07	70
(9)	2979 TRANS-1,2-DICHLOROETHYLENE	502.2, 524.2	0.1	100
(10)	2983 1,2-DICHLOROPROPANE	502.2, 524.2	0.005	5
(11)	2992 ETHYLBENZENE	502.2, 524.2	0.7	700
(12)	2996 STYRENE	502.2, 524.2	0.1	100
(13)	2987 TETRACHLOROETHYLENE (PCE)	502.2, 524.2, 551.1	0.005	5
(14)	2991 TOLUENE	502.2, 524.2	1	1,000
(15)	2981 1,1,1-TRICHLOROETHANE	502.2, 524.2, 551.1	0.2	200
(16)	2984 TRICHLOROETHYLENE (TCE)	502.2, 524.2, 551.1	0.005	5
(17)	2976 VINYL CHLORIDE	502.2, 524.2	0.002	2
(18)	2955 XYLENES (TOTAL)	502.2, 524.2	10	10,000
PHASE V				
(1)	2964 DICHLOROMETHANE	502.2, 524.2	0.005	5
(2)	2378 1,2,4-TRICHLOROBENZENE	502.2, 524.2	0.07	70
(3)	2985 1,1,2-TRICHLOROETHANE	502.2, 524.2, 551.1	0.005	5

**REGULATED INORGANIC CHEMICALS (IOCs)
40 CFR 141.62 (b)**

PHASE II

Contaminant		Method	MCL (mg/L) parts per million	MCL (µg/L) parts per billion
(1)	1025 FLUORIDE	300.0, 4110B, 380-75WE, D4327-97, D1179-93B, 29-71W, 4500-F B/C/D/E	4.0	
(2)	1010 BARIUM	200.7, 200.8, 3111D, 3113B, 3120B	2	
(3)	1015 CADMIUM	200.7, 200.8, 200.9, 3113B	0.005	5
(4)	1020 CHROMIUM	200.7, 200.8, 200.9, 3113B, 3120B	0.1	100
(5)	1035 MERCURY	245.1, 245.2, 200.8, 3112B, D3223-97	0.002	2
(6)	1045 SELENIUM	200.8, 200.9, 3113B, 3114B, D3859-98A/B	0.05	50
(7)	1040 NITRATE	300.0, 353.2, 4110B, 601, B-1011, 4500-NO ₃ ⁻ D/E/F, D3867-90A/B, D4327-97	10 (as N)	
(8)	1041 NITRITE	300.0, 353.2, D4327-97, D3867-90A/B, 4110B, 4500-NO ₃ ⁻ /E/F, B-1011, 4500-NO ₂ ⁻ B	1 (as N)	
(9)	1038 TOTAL NITRATE + NITRITE	See above	10 (as N)	
(10)	1094 ASBESTOS	100.1, 100.2	7 MILLION FIBERS/L LONGER THAN 10µm	

PHASE V

(1)	1074 ANTIMONY	200.8, 200.9, 3113B, D3697-92	0.006	6
(2)	1075 BERYLLIUM	200.7, 200.8, 200.9 3120B, 3113B, D3645-97B	0.004	4
(3)	1024 CYANIDE	335.4, I-3300-85, 4500-CN ⁻ C/E/G/F	0.2	200
(4)	1036 NICKEL	200.7, 200.8, 200.9, 3111B, 3113B, 3120B	0.1 (remanded 2/9/95)	100
(5)	1085 THALLIUM	200.8, 200.9	0.002	2

40 CFR 141.11 (a)

(6)	1005 ARSENIC (January 23, 2006)	200.8, 200.9, D2972-97B/C 3113B, 3114B,	0.010	10.0
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**SECONDARY DRINKING WATER STANDARDS
NAC 445A.455**

Contaminant	Method	MCL (mg/L) parts per million
(1) 1002 ALUMINUM	200.7, 200.8, 200.9, 3111D, 3113B, 3120B	0.2
(2) 1017 CHLORIDE	300.0, 4110B, 4500-Cl ⁻ B/D, D4327-97, D512-89B	400.0
(3) 1905 COLOR	2120B	15.0 (color units)
(4) 1022 COPPER	200.7, 200.8, 200.9, 3111B, 3113B, 3120B, D1688-95A/C	1.0
(5) 1025 FLUORIDE	300.0, 4110B, 380-75WE, D4327-97, D1179-93B, 29-71W, 4500-F B/C/D/E	2.0
(6) 1089 FOAMING AGENTS (MBAS)	5540C	0.5
(7) 1028 IRON	200.7, 200.9, 3111B, 3113B, 3120B	0.6
(8) 1031 MAGNESIUM	200.7, 3111B, 3120B D511-93 A/B, 3500-Mg B/E	150.0
(9) 1032 MANGANESE	200.7, 200.8, 200.9, 3111B, 3113B, 3120B	0.1
(10) 1920 ODOR	2150B	3.0 (TON)
(11) 1925 pH	150.1, 150.2, 4500-H ⁺ -B, D1293-95	6.5 – 8.5
(12) 1050 SILVER	200.7, 200.8, 200.9, 3111B, 3113B, 3120B, I-3720-85	0.10
(13) 1055 SULFATE	300.0, 375.2, D4327-97, 4110B, D516-90, 4500-SO ₄ ²⁻ C/E/F	500.0
(14) 1930 TOTAL DISSOLVED SOLIDS (TDS)	2540C	1,000.00
(15) 1095 ZINC	200.7, 200.8, 3111B, 3120B	5.0

**LEAD AND COPPER RULE
40 CFR 141.23**

Contaminant	Method	AL (mg/L) parts per million
1022 COPPER	200.7, 200.8, 200.9, 3113B, 3113B, 3120B, D1688-95A/C	1.3
1030 LEAD	200.8, 200.9, 3113B, 1001, D3559-96D	0.015

ATTACHMENT 1

NDEP/BSDW PLAN TO PERMIT A PUBLIC WATER SYSTEM

OPERATION OF A COMMUNITY OR NONTRANSIENT NONCOMMUNITY WATER SYSTEM UNDER NEVADA ADMINISTRATIVE CODE, CHAPTER 445A.591 THROUGH 445A.5926;

OPERATION PLAN SUBMITTAL

NAC 445A.5921, Submission of Plan;

NAC 445A.5922, Contents of Plan

1. A description of the community or non-transient non-community water system that includes:

- a) Legal description of the proposed **area of service** including a layout map and township, range and section location;

- b) State the purpose of the system and a **plan to resolve any operational problems** concerning the operation of the system;

- c) Describe the program to be submitted for the **control of cross-connections** as required in NAC 445A.67185;

- d) Describe a plan for **restoration of services in an emergency** as required in NAC 445A.66665;

- e) Describe the **operation and maintenance plan** (to be submitted) that the water system will use in accordance with NAC 445A.6667;

- f) Describe the type of **water treatment used** (if applicable);

- g) Describe any **unique characteristics** of the service area or water system;

2. An analysis of the managerial capability of the system, including:

- a) The name, address and phone number of each owner, manager or operator of the system;

- b) The name, address and phone of a person to notify in the case of an emergency;

- c) The type of **operator certificates** held by each operator;

d) The organization, by-laws and policies of the system;

e) The manner in which the system will bill customers and/or correspond with customers;

f) An **evaluation of each position employed to manage, operate, or maintain the system**, including: job responsibilities, monitoring of state and federal regulations and determining if they apply to management, operation or maintenance of the system; determination of the cost to comply with regulations;

3. Information concerning planning for the system;

a) Estimated population served by the system;

b) Number of service connections served by the system;

c) Estimated amount of water required for the system:

d) A description of the customers served by the system;

e) An estimate of the **proposed use of the property** for 20 years in 5 year increments;

4. An analysis of the technical capability of the system;

a) The standards for the design, construction, operation and maintenance of the system;

b) Analysis of water quality for samples of water from sources supplying the system;

c) A description of the inventory of system components;

5. An analysis of the water resources of the system;

a) A plan for water conservation or water meter effectiveness;

b) The **estimated amount of water required** for the five year period after startup;

c) Demonstration of the **ownership of water rights/appropriation** from the State Engineer sufficient to serve the five year period after startup;

d) An analysis of the effect(s) of user discontinuation of service (if any);

e) A plan for responding to any **water shortages** during the five years after startup;

6. A description/analysis of other sources of water available to the system, including;

- a) A description of each source;

- b) Identification of the **nearest community or nontransient noncommunity water system** to the system;
- c) A **plan to obtain support** for the operation and maintenance of the system from any other system;
- d) Any connection that is available to the system from any other system;
- e) Reasons for specifying the use of any other source of water for the system;

7. A program of capital improvements for the system including a schedule for implementation;

- a) Identification of any **project(s) necessary** for the system to begin or maintain the operation of the systems and reasons for the project(s);

- b) A schedule that ranks the projects(s) in order of priority;

- c) A list of **costs** incurred by the system for each of the project(s);

- d) Each source of money or financing required for each of the project(s);

8. Demonstration of the financial capability of the system, including;

- a) An operating budget for five years after startup of operation that includes the ability of the system to spend money for emergency improvements, capital improvements and normal operation and maintenance of the system;

- b) An evaluation of the **rate structure and connection fees** of the system;

- c) An evaluation of the **total cost of providing service** to the customers of the system;

- d) An evaluation of the manner in which the **total cost** set forth in paragraph c) will be **recovered by the system;**

e) An evaluation of the **stability of the cash flow** of the system;

9. Information concerning any **legal matters relating to the system**, including;

a) A plan to operate the system if the system is declared bankrupt or is placed into receivership;

b) The **ownership of any real property** of the system and any buildings located on that property;

c) Any right-of-way, easement or restrictive covenant obtained by the system or which applies to the system;

d) **Any contract** to which the system is a party or which applies to the system;

10. A **statement** that specifies any federal, state or local governmental entity that may adopt regulations concerning the operation of the system or enforce any law or regulation that applies to the system;

11. Any other pertinent information that the Division may request will be provided.