



Water-Data Report 2012

**355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)**

Piedmont and Blue Ridge crystalline-rock aquifers  
Transition Zone

Orange County, NC

LOCATION.--Lat 35°55'58.94", long 79°12'20.81" referenced to North American Datum of 1983, Orange County, NC, Hydrologic Unit 03030002, near Oaks, NC. Owner: NCDENR (North Carolina Department of Environment and Natural Resources).

**GROUNDWATER RECORDS**

WELL CHARACTERISTICS.--Depth 32 ft. Upper casing diameter 4 in; top of first opening 17 ft, bottom of last opening 32 ft.

DATUM.--Land-surface datum is 501.86 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--June 2011 to current year.

REMARKS.--Measured quarterly by U. S. Geological Survey and/or NCDENR personnel.

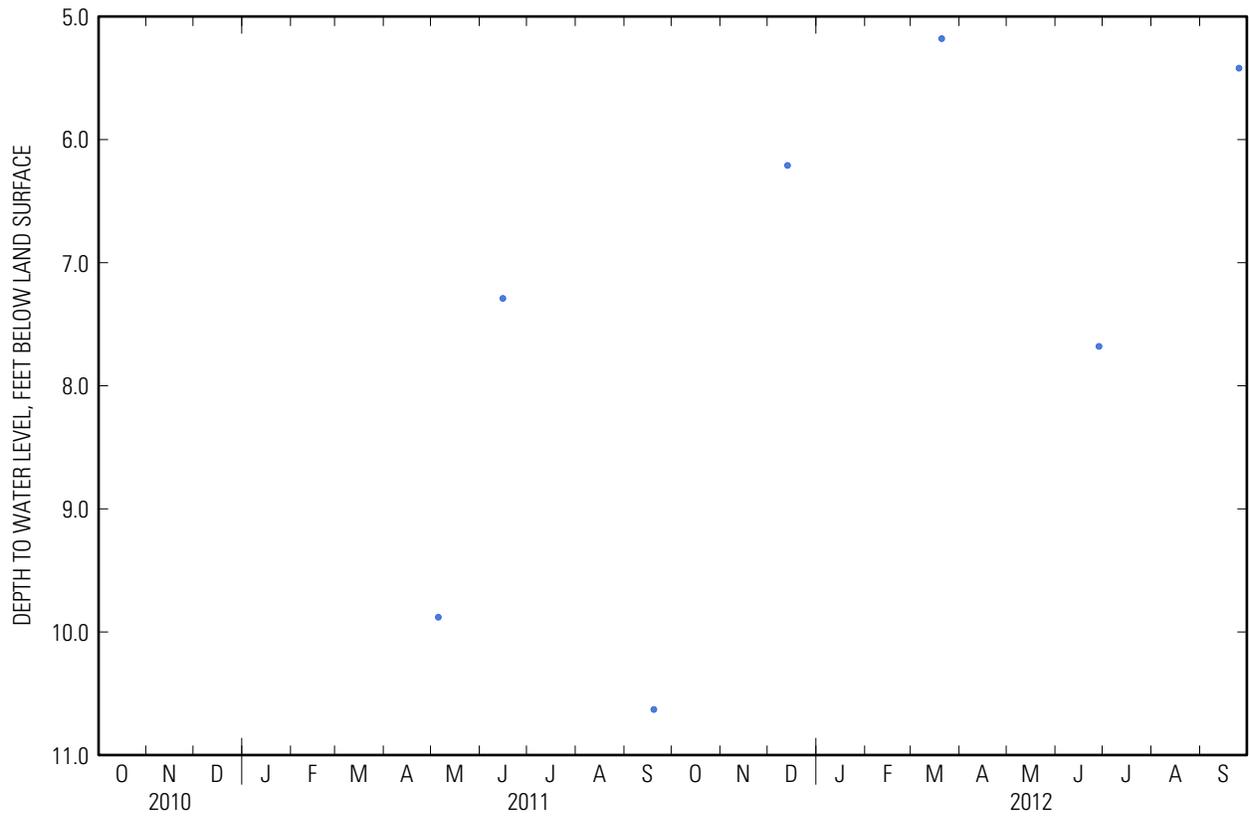
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.18 ft below land-surface datum, March 20, 2012; lowest water level measured, 10.63 ft below land-surface datum, September 19, 2011.

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM**

[Measurement method: T, electric tape. Water-level status: - , static.]

Date	Water level	Measure-ment method	Water-level status	Date	Water level	Measure-ment method	Water-level status
Dec 13, 2011	6.21	T	--	Jun 28, 2012	7.68	T	--
Mar 20, 2012	5.18	T	--	Sep 25	5.42	T	--

355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued



## 35559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2011 to current year.

REMARKS.--Station operated to evaluate effects of land-applied municipal biosolids on water quality.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Depth to water level, ft below land surface (72019)	Dissolved oxygen, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Temperature, water, °C (00010)
12-13-2011	1230	Groundwater	Regular	6.21	3.5	5.6	256	15.4
03-20-2012	1220	QC sample - Artificial	Blank	--	--	--	--	--
03-20-2012	1221	QC sample - Artificial	Duplicate	--	--	--	--	--
03-20-2012	1305	Groundwater	Regular	5.18	3.4	5.6	246	13.8
03-20-2012	1306	QC sample - Groundwater	Duplicate	--	--	--	--	--
06-28-2012	1145	Groundwater	Regular	7.68	.9	5.6	217	14.2
09-25-2012	1205	Groundwater	Regular	5.42	2.1	5.4	243	15.8
09-25-2012	1206	QC sample - Groundwater	Replicate	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, inflection-point, incremental titration method, field, mg/L as CaCO <sub>3</sub> (00419)	Alkalinity, water, filtered, fixed endpoint titration, laboratory, mg/L as CaCO <sub>3</sub> (29801)	Chloride, water, filtered, mg/L (00940)
12-13-2011	1230	38	22.6	10.2	0.81	6.78	20	30.4	10.3
03-20-2012	1220	--	.027	< .011	< .03	< .06	--	< 4.6	< .06
03-20-2012	1221	--	--	--	--	--	--	--	--
03-20-2012	1305	21	19.7	9.38	.62	6.51	25	29.0	11.3
03-20-2012	1306	--	--	--	--	--	--	--	--
06-28-2012	1145	83	22.1	7.76	.60	7.39	--	40.3	11.7
09-25-2012	1205	65	21.5	9.24	.84	7.11	25	38.7	10.3
09-25-2012	1206	--	21.9	9.22	.81	6.87	--	40.8	10.3

## 355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fluoride, water, filtered, mg/L (00950)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Escherichia coli, Defined Substrate Technology, water, MPN/100 mL (50468)
12-13-2011	1230	< .04	13.5	< .010	15.5	0.056	0.054	9.35	1
03-20-2012	1220	< .04	< .09	.015	< .040	< .004	< .004	.16	--
03-20-2012	1221	--	--	--	--	--	--	--	--
03-20-2012	1305	.04	14.7	< .010	12.5	.054	.050	11.9	4
03-20-2012	1306	--	--	--	--	--	--	--	--
06-28-2012	1145	.07	12.6	.012	8.30	.056	.053	8.53	< 1
09-25-2012	1205	.04	13.6	< .010	12.3	.058	.056	12.8	< 10
09-25-2012	1206	.06	13.7	< .010	12.6	.058	.057	12.9	10

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 4 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fecal coliform, M-FC MF (0.45 micron) method, water, col/100 mL (31616)	Iron, water, filtered, µg/L (01046)	1,4-Dichlorobenzene, water, unfiltered, recoverable, µg/L (34571)	Atrazine, water, unfiltered, recoverable, µg/L (39630)	Bromacil, water, unfiltered, recoverable, µg/L (30234)	Camphor, water, unfiltered, recoverable, µg/L (62817)	Carbaryl, water, unfiltered, recoverable, µg/L (39750)	Carbazole, water, unfiltered, recoverable, µg/L (77571)	Chlorpyrifos, water, unfiltered, recoverable, µg/L (38932)
12-13-2011	1230	< 2	20.2	< .08	0.11	< .16	< .08	< .06	< .020	< .12
03-20-2012	1220	< 2	< 3.2	--	--	--	--	--	--	--
03-20-2012	1221	< 2	--	--	--	--	--	--	--	--
03-20-2012	1305	< 2	15.5	--	--	--	--	--	--	--
03-20-2012	1306	< 2	--	--	--	--	--	--	--	--
06-28-2012	1145	< 4	5.3	--	--	--	--	--	--	--
09-25-2012	1205	61	3.6	--	--	--	--	--	--	--
09-25-2012	1206	35	5.7	--	--	--	--	--	--	--

## 355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 5 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	DEET, water, unfiltered, recoverable, µg/L (61947)	Diazinon, water, unfiltered, recoverable, µg/L (39570)	Dichlorvos, water, unfiltered, recoverable, µg/L (30218)	Metalaxyl, water, unfiltered, recoverable, µg/L (04254)	Metolachlor, water, unfiltered, recoverable, µg/L (82612)	p-Cresol, water, unfiltered, recoverable, µg/L (77146)	Pentachlorophenol, water, unfiltered, recoverable, µg/L (39032)	Prometon, water, unfiltered, recoverable, µg/L (39056)	Thiabendazole, water, filtered, recoverable, micrograms per liter (62801)
12-13-2011	1230	0.06	< .32	< .08	< .16	< .04	< .08	< 1.6	0.06	< .060
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 6 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	1,7-Dimethylxanthine, water, filtered, recoverable, micrograms per liter (62030)	1-Methylnaphthalene, water, unfiltered, recoverable, µg/L (81696)	2,6-Dimethylnaphthalene, water, unfiltered, recoverable, µg/L (62805)	2-Methylnaphthalene, water, unfiltered, recoverable, µg/L (30194)	3,4-Dichlorophenyl isocyanate, water, unfiltered, recoverable, µg/L (63145)	3-beta-Coprostanol, water, unfiltered, recoverable, µg/L (62806)	3-Methyl-1H-indole, water, unfiltered, recoverable, µg/L (62807)	3-tert-Butyl-4-hydroxyanisole, water, unfiltered, recoverable, µg/L (61702)	4-Cumylphenol, water, unfiltered, recoverable, µg/L (62808)
12-13-2011	1230	< .100	< .04	< .04	< .04	< .32	< 1.6	< .04	< .16	< .04
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

## 35559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 7 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	4-Epichlorotetracycline hydrochloride, water, filtered, recoverable, micrograms per liter (63731)	4-Epioxytetracycline, water, filtered, recoverable, micrograms per liter (63729)	4-Epitetracycline hydrochloride, water, filtered, recoverable, micrograms per liter (63727)	4-n-Octylphenol, water, unfiltered, recoverable, µg/L (62809)	4-Nonylphenol (sum of all isomers), water, unfiltered, recoverable, µg/L (62829)	4-Nonylphenol diethoxylate (sum of all isomers), water, unfiltered, recoverable, µg/L (61703)	4-Nonylphenol monoethoxylate (sum of all isomers), water, unfiltered, recoverable, µg/L (61704)	4-tert-Octylphenol diethoxylate, water, unfiltered, recoverable, µg/L (62486)	4-tert-Octylphenol monoethoxylate, water, unfiltered, recoverable, µg/L (62485)
12-13-2011	1230	< .010	< .010	< .010	< .02	E .1	< 1.6	< 1.6	< .2	< .6
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 8 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	4-tert-Octylphenol, water, unfiltered, recoverable, µg/L (62810)	5-Methyl-1H-benzotriazole, water, unfiltered, recoverable, µg/L (61944)	9,10-Anthraquinone, water, unfiltered, recoverable, µg/L (62813)	Acetaminophen, water, filtered, recoverable, micrograms per liter (62000)	Acetophenone, water, unfiltered, recoverable, µg/L (62811)	Acetylhexamethyl tetrahydro naphthalene, water, unfiltered, recoverable, µg/L (62812)	Albuterol, water, filtered, recoverable, micrograms per liter (62020)	Anhydroertromycin, water, filtered, recoverable, micrograms per liter (63674)	Anthracene, water, unfiltered, recoverable, µg/L (34220)
12-13-2011	1230	< .4	< 1.28	< .04	< .120	< .4	< .04	< .080	< .005	< .02
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

## 355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 9 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Azithromycin, water, filtered, recoverable, micrograms per liter (62792)	BDE congener 47, water, unfiltered, recoverable, µg/L (63147)	Benzo[a]pyrene, water, unfiltered, recoverable, µg/L (34247)	Benzo-phenone, water, unfiltered, recoverable, µg/L (62814)	beta-Sitosterol, water, unfiltered, recoverable, µg/L (62815)	beta-Stig-mastanol, water, unfiltered, recoverable, µg/L (61948)	Bis(2-ethylhexyl) phthalate, water, unfiltered, recoverable, µg/L (39100)	Caffeine, water, filtered, recoverable, µg/L (50305)	Caffeine, water, unfiltered, recoverable, µg/L (81436)
12-13-2011	1230	< .005	< .04	< .02	< .08	< 4.8	< 3.4	< 2	< .060	< .08
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 10 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Carbamazepine, water, filtered, recoverable, micrograms per liter (62793)	Chloramphenicol, water, filtered, recoverable, micrograms per liter (65194)	Chlortetracycline, water, filtered, recoverable, micrograms per liter (61744)	Cholesterol, water, unfiltered, recoverable, µg/L (62818)	Ciprofloxacin, water, filtered, recoverable, micrograms per liter (62898)	Codeine, water, filtered, recoverable, micrograms per liter (62003)	Cotinine, water, filtered, recoverable, µg/L (62005)	Cotinine, water, unfiltered, recoverable, µg/L (61945)	Dehydronifedipine, water, filtered, recoverable, micrograms per liter (62004)
12-13-2011	1230	< .005	< .100	< .010	< 1.6	< .005	< .046	< .038	< .08	< .080
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 11 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Diethyl phthalate, water, unfiltered, recoverable, µg/L (34336)	Diltiazem, water, filtered, recoverable, µg/L (62008)	Diphenhydramine, water, filtered, recoverable, µg/L (62796)	D-Limonene, water, unfiltered, recoverable, µg/L (62819)	Doxycycline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (62694)	Enrofloxacin, water, filtered, recoverable, µg/L (66495)	Erythromycin, water, filtered, recoverable, µg/L (62797)	Fluoranthene, water, unfiltered, recoverable, µg/L (34376)	Hexahydrohexamethylcyclopentapyran, water, unfiltered, recoverable, µg/L (62823)
12-13-2011	1230	< .4	< .060	< .058	< .16	< .010	< .005	< .008	< .02	< .04
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 12 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Ibuprofen, water, filtered, recoverable, µg/L (62014)	Indole, water, unfiltered, recoverable, µg/L (62824)	Isoborneol, water, unfiltered, recoverable, µg/L (62825)	Isochlortetracycline, water, filtered, recoverable, µg/L (64175)	Isoepichlorotetracycline, water, filtered, recoverable, µg/L (64047)	Iso-phorone, water, unfiltered, recoverable, µg/L (34408)	Isopropylbenzene, water, unfiltered, recoverable, µg/L (77223)	Iso-quinoline, water, unfiltered, recoverable, µg/L (62826)	Lincomycin, water, filtered, recoverable, µg/L (62894)
12-13-2011	1230	< .050	< .04	< .090	< .010	< .010	< .050	< .04	< .04	< .005
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

355559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 13 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Lomefloxacin, water, filtered, recoverable, micrograms per liter (62900)	Menthol, water, unfiltered, recoverable, µg/L (62827)	Methyl salicylate, water, unfiltered, recoverable, µg/L (62828)	Naphthalene, water, unfiltered, recoverable, µg/L (34696)	Norfloxacin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter (62757)	Ofloxacin, water, filtered, recoverable, micrograms per liter (62899)	Ormetoprim, water, filtered, recoverable, micrograms per liter (62962)	Oxytetracycline, water, filtered, recoverable, micrograms per liter (61759)	Phenanthrene, water, unfiltered, recoverable, µg/L (34461)
12-13-2011	1230	< .005	< .32	< .08	< .02	< .005	< .005	< .005	< .010	< .02
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 14 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Phenol, water, unfiltered, recoverable, µg/L (34694)	Pyrene, water, unfiltered, recoverable, µg/L (34469)	Roxithromycin, water, filtered, recoverable, micrograms per liter (62895)	Sarafloxacin, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter (62771)	Sulfachlorpyridazine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter (62774)	Sulfadiazine, water, filtered, recoverable, micrograms per liter (62963)	Sulfadimetoxine, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter (62776)	Sulfamethazine, water, filtered, recoverable, micrograms per liter (61762)	Sulfamethoxazole, water, filtered (0.7 micron glass fiber filter), recoverable, micrograms per liter (62775)
12-13-2011	1230	< .16	< .02	< .005	< .005	< .005	< .005	< .005	< .005	< .005
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

## 35559079122101 Local number OR-688 COL-4 NEAR WHITE CROSS, NC (TRANSITION ZONE)—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 15 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Sulfathiazole, water, filtered (0.7 micron glass fiber filter), recoverable,	Tetracycline, water, filtered (0.7 micron glass fiber filter), recoverable,	Tribromomethane, water, unfiltered, recoverable,	Tributyl phosphate, water, unfiltered, recoverable,	Triclosan, water, unfiltered, recoverable,	Triethyl citrate, water, unfiltered, recoverable,	Trimethoprim, water, filtered, recoverable,		
		micrograms per liter (62021)	micrograms per liter (62778)						µg/L (34475)	micrograms per liter (62781)
12-13-2011	1230	< .091	< .005	< .16	< .010	< .16	< .064	< .32	< .04	< .005
03-20-2012	1220	--	--	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--	--	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 16 of 16

[ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; MF, membrane filter; MPN/100 mL, most probable number per 100 milliliters; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; col/100 mL, colonies per 100 milliliters; ft, feet; mg/L, milligrams per liter; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Triphenyl phosphate, water, unfiltered, recoverable,	Tris(2-butoxyethyl) phosphate, water, unfiltered, recoverable,	Tris(2-chloroethyl) phosphate, water, unfiltered, recoverable,	Tris(dichloroisopropyl) phosphate, water, unfiltered, recoverable,	Tylosin, water, filtered, recoverable,	Virginiamycin, water, filtered, recoverable,	Warfarin, water, filtered, recoverable,
		micrograms per liter (62834)	micrograms per liter (62830)	micrograms per liter (62831)	micrograms per liter (61707)	micrograms per liter (62896)	micrograms per liter (62897)	micrograms per liter (62024)
12-13-2011	1230	< .08	< .64	< .16	< .32	< .010	< .005	< .080
03-20-2012	1220	--	--	--	--	--	--	--
03-20-2012	1221	--	--	--	--	--	--	--
03-20-2012	1305	--	--	--	--	--	--	--
03-20-2012	1306	--	--	--	--	--	--	--
06-28-2012	1145	--	--	--	--	--	--	--
09-25-2012	1205	--	--	--	--	--	--	--
09-25-2012	1206	--	--	--	--	--	--	--