WATER SUPPLY PLAN AND WASTEWATER REPORT

For

Forest Lakes Metropolitan District

DECEMBER 2015

Prepared By:



CONSULTANTS, INC.

FOREST LAKES METROPOLITAN DISTRICT WATER SUPPLY PLAN and WASTEWATER REPORT

December 9, 2015

Prepared for:

Forest Lakes Metropolitan District 2 North Cascade, Suite 1280 Colorado Springs, CO 80903

Prepared by:

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SECTION 1 INTRODUCTION

The purpose of this study if to provide a Water and Wastewater Sufficiency Report for the proposed Forest Lakes Filing 2A and 2B. This report supersedes previous water reports the most recent of which was issued in 2003.

The Forest Lakes overall development consists of three large non-contiguous parcels north of the United States Air Force Academy and west of Interstate-25.

The main or largest parcel will be developed into residential areas. It includes Bristlecone and Pinion Reservoirs and large acreages of open space. The existing and proposed Filings are a part of this parcel.

The Forest Lakes commercial area or Tech Center is east of Monument Creek and is annexed into the Town of Monument. The Dillon well resides within this parcel. This area will be developed as primarily commercial property.

Lastly an additional parcel also sometimes known as the Village parcel, is adjacent to the Tech Center but west of Monument Creek. There are no plans for development of this parcel.

1.1 General:

In 2008, two initial Filings of Forest Lakes were platted and recorded. Although platted, development of the recorded lots was halted partially through construction. Nevertheless, the backbone water system was completed and has been functional in a marginal role since 2008/2009. The existing water system consists of a single large Arapahoe Well, raw water delivery system; Water Treatment Plant; Water Transmission and Distribution systems; and a 1 MG Water Storage Tank. The system, although functional since that time, has only served a single user.

The system is designated as a Public Water Supply System and has been assigned a PWSID # of CO-0121360. Since system use is so low, it has never reached the threshold of being designated for Community system use. However with active development beginning, it is anticipated that the system will reach the threshold of being a Community system by May, 2016. Therefore, it is anticipated that a full monitoring plan will be adopted through CDPHE at that time.

All central water system facilities necessary to serve the existing two filings and proposed Filing 2A and 2B are in place at this time and functional. Additional distribution lines will be constructed with Filing 2.

Most central wastewater systems are also in place as needed to serve the existing and proposed Filings. There are two constructed lift stations, force main and interceptor sewers in place and constructed. Although construction is near complete and connectivity is complete, the wastewater system has never become

fully functional as power was not completed to the two lift stations. Final construction and some probable re-habilitation is currently underway.

Wastewater Treatment will be provided through the Upper Monument Regional Wastewater Treatment Facility which is jointly owned by Triview Metropolitan District; Donala Water and Sanitation District; and Forest Lakes Metropolitan District.

Appendix A is the Preliminary Plan for Forest Lakes Filings 2A and 2B.

SECTION 2 PROJECTION OF WATER AND WASTEWATER NEEDS

2.1 Expected Water User Demands:

An overall factor of 0.392 annual acre-feet per residential unit was utilized for water allocation for lots platted previously. This might be slightly low for the 42 large estate lots but possibly overly conservative for the smaller sized lots. Current user characteristics would suggest an annual water demand of 42.703 AF, but prior factors were based on 44.296 annual AF for existing Filing #1 and Filing #3. For consistency, we will hold with the more conservative 44.296 for existing platted lots but use a more current prediction of 0.353 annual AF for the proposed medium sized lots.

Based on above, adding the new Filing #2A and 2B, Forest lakes Metropolitan District's water demands will rise to a total 101.133 annual Acre-Feet. Maximum Daily Use is projected on a 2.2 multiplier ratio.

Table 1
Projected Water Demands
Forest Lakes Metropolitan District

Land Use	Annual Need (AF/Unit)	Total Annual (AF)	Max Day (GPD)
Existing Plats Residential (Filing #1) 34 Large Estate Lots	0.392 AF /Unit	13.33	26,180 GPD
Residential (Filing #3) 8 Large Estate Lots 71 Medium Size Lots	0.392 AF /Unit	30.97	60,826 GPD
Proposed Plats Residential (Filing #2 A a 161 Medium Size Lots	nd B) 0.353 /Unit	56.833	111,622 GPD
Total Revised Demands		101.13	198,608 GPD

2.2 Expected Wastewater Loads

In the previous water report issued in 2003 a unit user characteristic of 240 GPD-unit was estimated as the anticipated wastewater load. In the last decade or so, low flow plumbing devices and water conservation awareness have driven the typical front range user characteristics downward dramatically. Since all of the houses will be constructed under current codes and conditions a value of 210 PPD-unit is far more applicable.

The maximum day to average day ratio used is 1.25. It should be noted that the factor tends to be a somewhat higher until buildout of the subdivisions is neared.

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<u>Table 2</u> <u>Projected Wastewater Loads</u> <u>Forest Lakes Metropolitan District</u>

Land Use	Average Daily Flow (GPD/Unit)	ADF (GPD)	Max Day (GPD)
Existing Plats		, ,	, ,
Residential (Filing #1)			
34 Large Estate Lots	210 gal/day- Unit	7140	8,925 GPD
Residential (Filing #3)			
8 Large Estate Lots			
71 Medium Size Lots	210 gal/day- Unit	16,590	20,738 GPD
Proposed Plats			
Residential (Filing #2 A	and B)		
161 Medium Size Lots	210 gal/day- Unit	33,810	42,263 GPD
Total Revised Loads		57,540	71,926 GPD

SECTION 3 WATER RIGHTS AND WATER SYSTEM SUFFICIENCY

3.1 Legal Water Supply and Water Rights:

When originally platted, it was expected that non-tributary water from under the main Forest Lakes residential parcel would be used to provide initial service. After the drilling of an initial Arapahoe well at Forest Lakes, an operational decision was made to rely instead on water taken from the re-drilled Dillon Well which was permitted under a different decree 81 CW 213. This water while under Forest Lakes is under a parcel that is east of Old Denver highway and not associated with the residential lands on which the Filings are platted and proposed. However beneficial use of the Dillon Well is not limited to the lands on which it resides and it can be used on the residential parcel. The legal water right associated with the Dillon Well is an annual decree of 400 annual acre-feet. See attached water right decree and well completion report (17483 -FR) attached as **Appendix B**.

Projecting the legal right to withdraw 400 annual acre-feet on a 100 year basis to net 300 year water, the resulting supply is 133.3 annual acre-feet $_{300}$. The available legal supply of 133.3 AF $_{300}$ obviously exceeds the expected required demand of 101.13 annual acre-feet.

Conclusion: Therefore the Dillon water right is more than adequate to provide 300 year water to all existing Filings and the proposed Filing 2A and 2B.

Forest Lakes owns a portfolio of other rights that include Denver Basin water under the residential parcel and certain CSU wastewater return flows which are fully consumable and are exchanged physically up to Bristlecone Reservoir. A small portion of the on-site Arapahoe Non-tributary water is dedicated to an upstream augmentation plan and some of the CSU wastewater return flows are used to augment evaporative losses from Bristlecone and Pinion Reservoirs.

Neither of these additional rights are necessary to provide legal and/or physical supply to the existing and proposed development at least through the first 3 Filings noted herein.

3.2 Physical Source of Supply:

Municipal water demand would be met using the Dillon Well established on the Tech Center parcel. This well has been drilled, completed and operated since 2008. Current well yield is 180 gallons/minute based on current pumping equipment. The equipment can be modified in the future and actual instantaneous yield of the permitted amount of 290 GPM has been documented as achievable.

For planning purposes, we generally down-rate daily yield to 80% of the maximum instantaneous rate for reliability. Therefore at 180 GPM X 80% X 1440, the current maximum daily capacity is 207,360 GPD which is adequate to

provide physical supply to the existing and proposed Filings. From Table 1, the required Max Daily Flow (MDF) is 198,608 GPD.

It should be noted that although no legal supply from the Dillon well is dedicated to any other purpose, the Dillon well is currently used as the physical supply for an augmentation plan mentioned in paragraph 2.1.

The current source of physical supply is adequate to serve the proposed Filings. However, a single well as a source of supply creates a reliability concern as the development builds out. The tank provides a 5 Max day alternate source of supply, but mechanical failure in this type of well can easily exceed 5 days of downtime. It is strongly recommended that Forest Lakes implement an emergency mutual aid connection to Triview Metropolitan District within the next year so that a back-up supply is available for reliability purposes. This connection has already been planned by both agencies and piping is already stubbed out from both sides to facilitate the connection. The interconnect is expected to be implemented in the first half of 2016.

Conclusion: The existing physical source of supply is adequate for the all existing Filings and the proposed Filing 2A and 2B. We do recommend that the mutual aid connection be implemented to provide an additional reliability factor. It should be implemented by the time Forest Lakes connects about 50 taps, although we are aware that it is currently underway.

3.3 Water Quality and Treatment:

The water quality from the Dillon well is relatively good but iron removal will improve the aesthetic quality. A small Iron and Manganese filter plant is existing and has been operable since roughly 2009. Water quality testing from the original drilling is attached as **Appendix C**. As stated earlier, the system has been in operation for several years but has only served a single user. Consequently, it has not yet risen to the threshold requiring consistent water quality monitoring. The system will pass that threshold when development begins and water quality testing per CDPHE will occur on a more consistent basis.

Conclusion: Water quality currently meets CDPHE Drinking Water Standards. Monitoring will become more routine once the system achieves the CDPHE threshold for such monitoring.

3.4 Water Storage:

An existing 1.5 MG storage tank has been constructed at the site and has been operated within the since 2008. Although 1/3 of the storage is owned by the Town of Monument, storage is treated as coincidental making the full capacity available on an emergency basis. This will provide for all required fire storage as well as domestic demand.

3.5 *Distribution and Transmission Lines:*

An existing 14 and 16 inch line comprises the back-bone of the system. These lines are supplemented with 8 inch or larger distribution lines throughout. New lines will be required and developed within Filing 2A and 2B as required by the District.

SECTION 4 WASTEWATER AND WASTEWATER TREATMENT

4.1 Wastewater Collection

The backbone wastewater system was constructed in 2008/09. The system included two constructed lift stations which were constructed although power has never been extended. The District is in the process of connecting power service and implementing start-up of the two stations. Some rehabilitation may be necessary and those actions are currently underway.

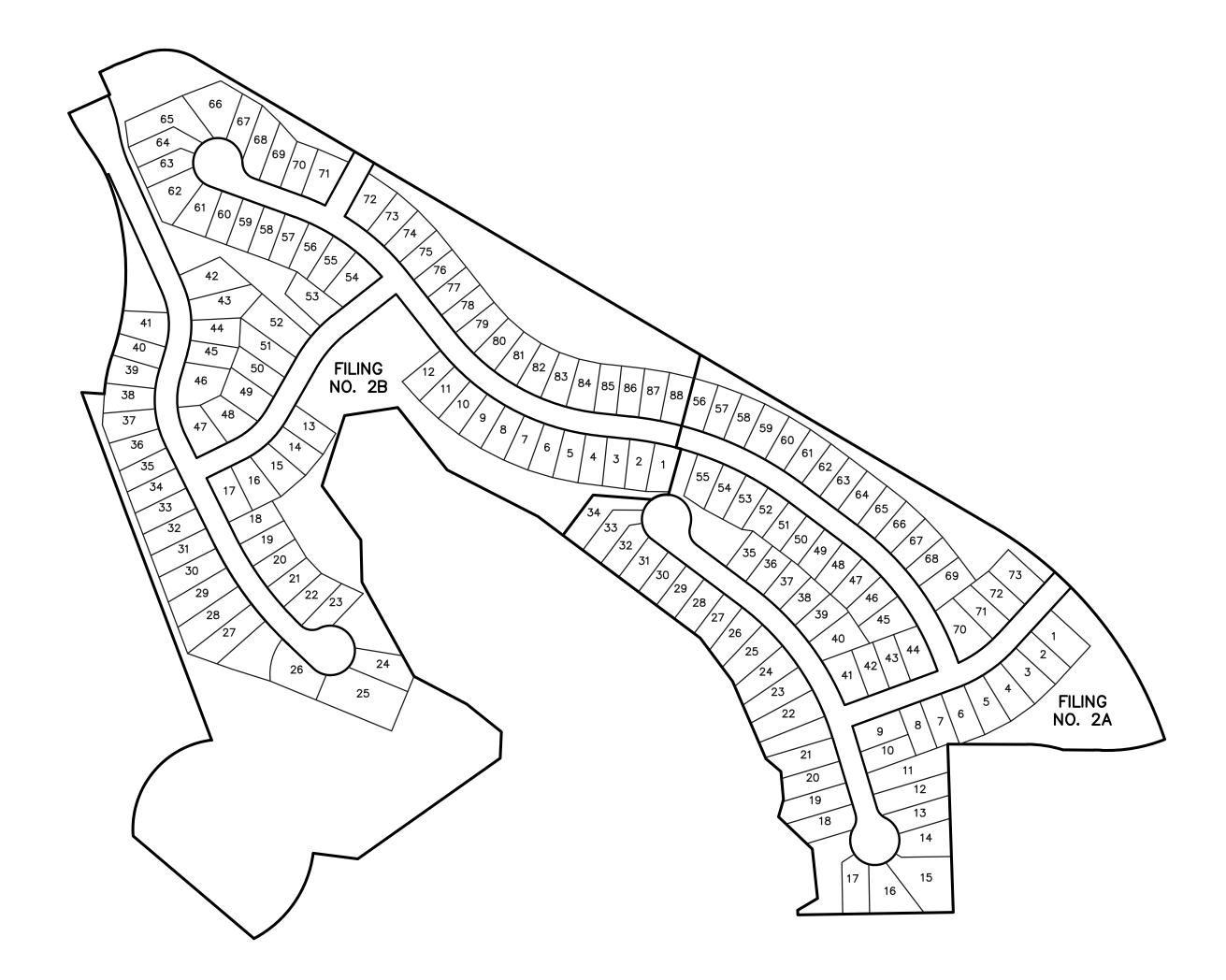
A 6 inch force main and 21 inch sewer interceptor are already in place and connect to the existing Upper Monument Regional Wastewater Treatment Facility.

4.2 Wastewater Treatment

Forest Lakes Metropolitan District is one of three partners who own the Upper Monument Regional Wastewater Treatment Facility (UMRWWTF). Forest Lakes ownership is 300,000 gallons per day. This is available and more than adequate to provide service to all existing Filings including the proposed 2A and 2B.

The plant is currently in compliance with its Discharge Permit.

Appendix A



Appendix B

WELL CONSTRUCTION AND TEST REPORT

For Office Use Only CFIVED

GWS-31	STATE OF CO	LORADO. OF	FICE OF T	HE STATE	ENGINEER		MENCIACI
02/2005	1313 Sherman S	t Room 818.	Denver, CO	80203			Alic no 200c
	Phone - Info (30	3) 866-3587	Main (30	3) 866-3581			AUG 0 8 2006
	Fax (303) 866-35		http://wv	vw.water.stat	le.co.us	4	WATER RESOURCES
	MIT NUMBER: 174						STATE ENGINEER COLO
	NER INFORMATION	Forest Lakes	Matra Diet	eiot			
	WELL OWNER:			ICL		1	
	ADDRESS: 2 North (00000	RN	
	orado Springs		: CO		ZIP CODE: 80903	3600839	5
TELEPHO	NE NUMBER: (719) 327-5810					
3. WELL LOC	ATION AS DRILLED	<u>: NW 1/4, 1</u>	<u>NE</u> 1/4, Se	ec. <u>35</u> ⊤	wp. <u>11</u> □ N or 🛛	S, Range 67	_] E or ⊠ W
DISTANC	ES FROM SEC. LINE	s: <u>200</u>	ft. from 🛭	N or ☐ S s	section line and $\frac{2200}{}$	ft. from 🛛 🗓 i	E or ☐ W section line.
SUBDIVIS	ION:				, LOT, BLO	CK, FILING	(UNIT) Dillon
Optional C	SPS Location, GPS U	mm must use n	ne ionowing s	ettiliga. i vi	mai musi be o mi, omis	Owner's We	Il Designation: Dillon
be meters	, Datum must be NAD)83, Unit must	be set to true	N, 🔲 Zoni	e 12 or 🔀 Zone 13		
STREET A	ADDRESS AT WELL	LOCATION:				Northing: 43	30745
	SURFACE ELEVATION		feet		DRILLING METHOD R	everse Rotary	
	MPLETED June 27,		OTAL DEPTH	1316		MPLETED 1300	feet
	C LOG:	1	OTTLE DEL TI		6. HOLE DIAM (in.)	From (ft)	To (ft)
	Type	Grain Size	Color	Water Loc.	20	0	40
Depth 0-20	Sand, silty	Grain Gize	00.01	***************************************	17-1/2	40	1316
0-20	Sand, Siny		<u> </u>		17-172		
20.255	Dawaan aanda and	<u> </u>			7. DI AIN GAGING		
20-255	Dawson sands and sandstones	<u> </u>			7. PLAIN CASING:	141-12 Oi (i) F	(A) To (A)
255 965		 		<u> </u>	OD (in) Kind 20 Steel	Wall Size (in) F よろり +1	rom (ft) To (ft) 40
255-865	Denver, shales	 	 		10 % Steel	1365 H	
966 1206	A .1				1019 Steel		1 100
865-1305	Arapahoe sandstones and shales				See attached schedu		
1305-1316	Laramie shales				PERFORATED CASIN		- (in): 0.04
1303-1310	Larannie snaies				101/4 SS		various
				-	1014 3		Var juas
	 	 					
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	-				1		
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TESTING M	ETHOD Submers	IDIE					

Date/Time measured: June 26, 2006 Production Rate 400Static Level 644 Date/Time measured June 27, 2006 , Test Length (hrs) $\frac{24}{}$ Pumping Level 950 Remarks: 13. 1 have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(I)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.] Company Name: Henkle Drilling and Supply Co. License Number: Phone: 800) 742-5889 1408 Mailing Address: P.O. Box 639 Garden City, KA 67946 Print Name and Title

Well Casing Details Forest Lakes Metro. District Dillon Well Permit 17483-FR

10-3/4 inch Steel Casing

A COMPANY

De	pth
From	To
0	890
910	920
970	980
990	1050
1060	1070
1150	1165
1175	1195
1240	1260
1280	1300

10-inch Pipe Size Stainless Steel - 40 Slot

De	pth
From	To
890	910
920	970
980	990
1050	1060
1070	1150
1165	1175
1195	1240
1260	1280

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

Case No. 81CW213



FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

CONCERNING THE APPLICATION FOR WATER RIGHTS OF RAY E. DILLON, RAY E. DILLON, JR., RICHARD W. DILLON and WILLIAM L. SINGLETON Filed in the office of the

IN THE ARAPAHOE NONTRIBUTARY FORMATION

Cierk, District Court Water Division No. 2, State of Colorado

IN EL PASO COUNTY, COLORADO.

JUL 18 1984

Having reviewed all matters contained in the Application and evidence offered in support thereof, and upon stipulation of the parties hereto, the Court enters the following in the court of Fact, Conclusions of Law, Judgment and Decree.

FINDINGS OF FACT

1. Name and Address of Applicants:

Ray E. Dillon, Ray E. Dillon, Jr., Richard W. Dillon, and William L. Singleton c/o Ray E. Dillon, Jr. Box 1266
Hutchinson, Kansas 67501

2. Amount of Water Claimed:

Applicants initiated this case by filing an Application for Underground Nontributary Water Rights herein on December 14, 1981. Applicants seek a decree confirming their right to develop and use 290 g.p.m. of water recoverable from the Arapahoe Formation through Well No. 17483-F, with the amount of water to be withdrawn annually therefrom not to exceed 400 acre-feet.

. 3. Description of Structure:

Name: Well No. 17483-F

Depth: 1,195 feet

Location:

In the Northwest Quarter of the Northeast Quarter of Section 35, Township 11 South, Range 67 West, 6th P.M., El Paso County, former Water District No. 10, Irrigation Division No. 2, State of Colorado, at a

point 200 feet from the North line, and 2,000 feet from the East line, of said Section 35.

4. Well Permit:

In February of 1973, application was made to the Colorado Division of Water Resources for a well permit for the subject structure. The Division issued a permit for Well No. 17483-F on August 17, 1973. The permit authorizes a maximum pumping rate from the subject well of 430 g.p.m., with an annual acre-foot limitation of 580 acre-feet. A statement verifying application of such water to beneficial use was timely submitted to the Division of Water Resources pursuant to extensions of time previously obtained therefrom, and accepted for filing by the State Engineer, on October 17, 1974.

As asserted in paragraph 2 of this Decree, Applicants are claiming only 290 g.p.m. and 400 acre-feet (per annum), which limitations are found to be reasonable and required to protect the interests of Objector, the City of Colorado Springs.

5. Source of Water:

Applicants have proven that the ground water which is withdrawn through Well No. 17483-F is not tributary to or hydraulically connected with the Monument Creek system, and that withdrawals through the subject well will not materially affect the flow of Monument Creek or its tributaries within 100 years. Applicants have further proven that withdrawal of water in accordance with the terms of this Decree will not result in material injury to the vested water rights of others. There is water available for withdrawal by Applicants pursuant to and in accordance with C.R.S. §37-90-137.

6. Uses of Water:

The water which is the subject of the rights claimed herein may be used for municipal, domestic, commercial and irrigation purposes. The right to apply such water to the above-specified beneficial uses shall include the right of successive use pursuant to C.R.S. §37-82-106 and the right to use, reuse, and successively use all such water to extinction and to dispose of

such water, free of any limitation, restriction, or requirement as to the place of use, the amount of discharge after such use, and as to its reuse, successive use or disposition. The water may be produced for immediate application to beneficial use, for storage and subsequent application to beneficial use, for exchange purposes, for replacement of depletions resulting from the use of water from other sources, and for any and all other augmentation purposes.

7. Statements of Opposition/Entries of Appearance:

A verified Statement of Opposition to the granting of this Application was timely filed by the City of Colorado Springs. In addition, the State and Division Engineer entered their appearance in this matter. No other Statements of Opposition or Entries of Appearance were filed herein, and the time for filing the same has now expired.

The Objector and Entrants hereby withdraw their respective Statement of Opposition and Entry of Appearance, as evidence by the signatures of counsel for Objector and Entrants on page 6 hereof consenting to the terms of this Decree.

The Objector, City of Colorado Springs, stipulates with the Applicants and with the Entrants, State and Division Engineer, that this case shall not act as a precedent for any other wells or surface rights alleged to be nontributary, whether said proceedings or claims arose in the past or will arise in the future.

8. Jurisdiction:

Timely and adequate notice was published of the Application herein as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of 'the lands or water rights involved in this case is within the boundaries of a designated ground water basin.

CONCLUSIONS OF LAW

9. The Court concludes as a matter of law that the determination of nontributary ground water rights as set forth in the decretal portion hereof is contemplated and authorized by law. C.R.S. §37-92-203(1) and §37-90-137(6) (as amended by S.B. 439, enacted October 11, 1983). Applicants qualify for and are entitled to an absolute Decree confirming their right to withdraw ground water pursuant to C.R.S. §37-90-137.

10. The nontributary water rights herein are determined pursuant to C.R.S. §37-90-137, and shall be subject to administration by the State Engineer pursuant to the terms of this Decree, C.R.S. §37-90-137 and other applicable law as nontributary water rights.

JUDGMENT AND DECREE

IT IS, THEREFORE, ORDERED, ADJUDGED AND DECREED that:

- 11. The claims which are the subject of this Decree are hereby determined in accordance with the Conclusions of Law herein and as described hereinafter. The Findings of Fact and Conclusions of Law are hereby incorporated into this Decree as if fully set forth herein.
- 12. Applicants' rights to withdraw nontributary Arapahoe Formation ground water from Well No. 17483-F are hereinafter determined. The location, depth, pumping rate, and annual withdrawal for the well are as follows:
 - A. Location:

In the Northwest Quarter of the Northeast Quarter of Section 35, Township 11 South, Range 67 West, 6th P.M., El Paso County, former Water District No. 10, Irrigation Division No. 2, State of Colorado, at point 200 feet from the North line, and 2,000 feet from the East line, of said Section 35.

B. Depth: 1,195 feet

- C. Pumping Rate: 290 g.p.m. (0.646 c.f.s.)
- D. Annual Withdrawal: 400 acre-feet.
- 13. Well No. 17483-F shall produce nontributary ground water from the Arapahoe Formation only.
- 14. The subject well shall be operated consistent with sound engineering principles and practices. The well has been encased with an impervious lining at all levels except at the level of the designated aquifer, to prevent withdrawal of ground water in other aquifers.
- 15. The well shall be identified by its permit number, the Applicants' name, and the name of the producing Formation on the above-ground portion of the well casing or on the pumphouse.
- 16. A totalizing flow meter shall be installed on the well discharge. Applicants shall keep records of all diversions by the well from the totalizing flow meter, and report the same once annually to the Division 2 Engineer. Said annual reporting shall be broken down by the calendar month.
- 17. Water is available for withdrawal by Applicants from the Arapahoe Formation, and the withdrawal through Well No. 17483-F of the amounts of water specified in paragraph 12 above will not result in material injury to any other vested water rights or to any other owners or users of water.
- 18. The nontributary ground water which is the subject of this Decree may be used for municipal, domestic, commercial and irrigation purposes. The right to apply such water to the above-specified beneficial uses shall include the right of successive use pursuant to C.R.S. §37-82-106 and the right to use, reuse, and successively use all such water to extinction and to dispose of such water, free of any limitation, restriction, or requirement as to the place of use, the amount of discharge after such use, and as to its reuse, successive use or disposition. The water may be produced for immediate

application to beneficial use, for storage and subsequent application to beneficial use, for exchange purposes, for replacement of depletions resulting from the use of water from other sources, and for any and all other augmentation purposes.

- 19. Withdrawals through Applicants' well in accordance with the terms and conditions set forth above will not materially affect the flow of Monument Creek or its tributaries within 100 years and therefore is hereby decreed to be nontributary to Monument Creek or its tributaries.
- 20. The Findings of Fact, Conclusions of Law and Judgment and Decree herein shall not be considered a precedent as to other water matters which might be filed or have been filed with the Water Court or which are claimed or will be claimed by any person or legal entity.
- 21. This Judgment and Decree constitutes a final determination of the quantity of ground water which Applicants are entitled to withdraw from the Arapahoe Formation through Well No. 17483-F.

APPROVED AS TO FORM AND CONTENT:

HORN, ANDERSON & JOHNSON

William Nowland, No. 490

840 Holly Sugar Building

Colorado Springs, Colorado 80903

Attorneys for Objector City of Colorado Springs ATTORNEY GENERAL

By: Walliam (). Pollect. 9478 for Steven J. Shupe, No. 12523 Assistant Attorney General Natural Resources Section 1525 Sherman Street, 3rd Floor

Denver, Colorado 80203

Attorneys for Entrant State of Colorado

Wt. Rts. of Dillon & Singleton Case No. 81CW213 Page 7

SAUNDERS, SNYDER, ROSS & DICKSON, P.C.

By: William B. Tourtillott, No. 184
Deborah L. Freeman, No. 12278
303 East Seventeenth Avenue, #600
Denver, Colorado 80203
Attorneys for Applicants

ENTERED AS THE JUDGMENT AND DECREE OF THIS COURT this 18 da

John R. Tracey Water Judge

Water Division No. 2 State of Colorado

Clerk, District Court Water
C: Saunders, Snyder, Ross & Dickson
(W. B. Tourtillott, Jr.)
Horn, Anderson & Johnson (Nowland)
Steven J. Shupe, Assistant Attorney General
Robert W. Jesse, Division Engineer
Dr. Jeris A. Danielson, State Engineer

Riseiled & Surers

Clerk

Filed in the office of the

Appendix C

STATE OF COLORADO

Bill Ritter, Jr., Governor James B. Martin, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090

http://www.cdphe.state.co.us



PUEBLO DISTRICT OFFICE 4718 North Elizabeth Street, Suite B Pueblo, Colorado 81008-2054 Phone (719) 545-4650 FAX (719) 543-8441

February 18, 2009

Dr. Ann Nichols Forest Lakes Metropolitan District 2 N. Cascade, Suite 1280 Colorado Springs, CO 80921

Subject:

Receipt of Operations and Maintenance Manual

Forest Lakes Metropolitan District

PWSID CO0121360 El Paso County, Colorado

Dear Dr. Nichols,

The Water Quality Control Division (the Division) has received and reviewed the Operations and Maintenance (O&M) manual for the Forest Lakes Metropolitan District and the O&M manual for the Filtronics filtration equipment. All requirements of the New Water System Capacity Planning Manual have been satisfactorily met. Please inform the Division when the population of the Forest Lakes Metropolitan District has reached 25 year-round residents or when there are 15 service connections in use. The Division will change the status of the water system at that time from Transient, Non-Community to a Community Water System.

Thank you for your time and attention in this matter. If you have any questions or comments, please call me at 719-545-4650 ext. 21.

Sincerely,

Jøseph C. Talbott, Jr., P.E.

Engineering Section

Water Quality Control Division

cc: John McGinn, JDS-Hydro Consultants, Inc.

Mike McCarthy, El Paso County Department of Health and Environment

Betsy Beaver, Facility Operator Program, WQCD-Denver

Erica Kannely/DW File, Compliance Assurance & Data Management Section, WQCD-Denver



January 31, 2006

J P McGinn JDS-Hydro Consultants Inc 545 East Pikes Peak Avenue Suite 300 Colorado Springs, CO 80903

> Lab Work Order: 06-0296 Client Project ID: 105.03

Dear J P McGinn:

Enclosed are the analytical results and invoice for the samples shown in the Laboratory Work Order Summary.

The enclosed data for testing performed at Evergreen Analytical Laboratory (EAL) have been reviewed for quality assurance. A case narrative is included to describe any anomalies associated with the samples or data.

EAL will dispose of all samples one month from the date of this letter. If you want samples returned, please advise us by mail or fax as soon as possible.

A copy of this project report and supporting data will be retained for a period of five years unless we are otherwise advised by you. A document retrieval charge will apply.

Thank you for using the services of Evergreen Analytical. If you have any questions concerning the analytical data, please contact me. Please direct other questions to Client Services.

Sincerely,

Carl Smits

Technical Director of Chemical Analysis

I limite



Hazen Research, Inc. 4601 Indiana Street Golden, CO 80403 USA Tel: (303) 279-4501 Fax: (303) 278-1528

DATE HRI PROJECT

February 6, 2006

009-83 HRI SERIES NO A253/08 DATE REC'D.

1/17/2006 CUST. P.O.# 4709

Evergreen Analytical, Inc. Carl Smits 4036 Youngfield Wheat Ridge, CO 80033

REPORT OF ANALYSIS

5AMPLE NO. A253/06-1	8 1 /24/				
CAMPI E INCATEDA A SA	01P, Q, R - samp	led on 01/13/2	006 @ 1900 _	(105.03))
PARAMETER	RESULT	DETECTION	METHOD	ANALYSIS DATE	ANALYST
Gross Alpha (+-Precision*), pCi/l (T)	1.6(+-1.4)	0.9	EPA 900.0	2/1/2006 @ 1320	EDF
Gross Beta (+-Precision*), pCi/l (T) // Radium-226 (+-Precision*), pCi/l (T) //	4.9(+-2.3)	1.9	EPA 900.0	2/1/2006 @ 1320	EDF
Radium-228 (+-Precision*), pCi/l (T)	2.5(+-0.7)	0.2	SM 7500-Ra B	1/31/2006 @ 1256	JS
Radon (+-Precision*), pCi/I (T)	0.4(+-0.7)	0.6	EPA Ra-05	1/23/2006 @ 1258	JS
Total Solids, mg/l	530(+-40)	25	SM 7500-Rn B	1/17/2006 @ 1424	JS/AW
Table 1	104	10	EPA 160.3	1/20/2006	DM

"Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma. Certification ID's; CO/EPA CO00008; CT PH-0152; KY 90076; KS E-10265; NH 232805-A; NYELAP 11417; PADEP 68-00551; RI LAO00284; WI 998376810

CODES:

(T) = Total (D) = Dissolved

(S) = Suspended (R) = Total Recoverable

(PD) = Potentially Dissolved

< = Less Than

Robert Rostad Laboratory Manager

Page 1 of 1

1/17/06 1:36:03 PM

QC Level: Level I

Client Project ID: 105.03

Rpt To: J P McGinn
JDS-Hydro Consultants Inc
545 East Pikes Peak Avenue Suite 300

Colorado Springs, CO 80903 (719) 227-0072

Comments:

Sample ID 06-0296-01A 06-0296-02A	Sample ID	Matrix Water	Collection Date 1/13/06 0000 1/13/06 1745	Date Received 1/17/06	Test Code F_W	Test Name Fluoride	Hold MS	Date Due 1/31/06	Hold Time 2/10/06
06-0296-02A	5:45 F	Water	1/13/06 1745	1/17/06	F_W	Fluoride		1/31/0	9
06-0296-03A	6:45 F	Water	1/13/06 1845	1/17/06	F_W	Fluoride		1/31/06	١ ``

Nat Oppedal

From:

Shea Greiner

Sent:

Tuesday, January 17, 2006 12:31 PM

To:

Carl Smits; Jeremy Dechant; Margot Mosher; Nat Oppedal; Shea Greiner

Cc:

Anna Uecker; Patty McClellan

Subject:

RE: JDS Hydro

Use the same client project ID as on the large set COC, 105.03.

From:

Shea Greiner

Sent:

Tuesday, January 17, 2006 12:29 PM

To:

Carl Smits: Jeremy Dechant; Margot Mosher; Nat Oppedal

Cc:

Anna Uecker; Patty McClellan

Subject:

JDS Hydro

Per John McGinn, for the full DW set, run the Nitrate and pH out of HT.

The 3 F samples received in the small cooler with no instructions are also JD Hydro and part of the larger project, HOWEVER, they need to be logged to a separate WO. Per Ryan, label/ID the unmarked bottle "unmarked F". For the other two samples use the times on the sample labels and "F" as the sample IDs ie; 5:45 F, 6:45 F.

Thanks, Shea

1/13/6 ? 545PM 645PM

Seals Present Y/NA Intact

Pres Y/NONA Hd Sp Y/N/NA

Temp (C) / Container /25

Date: 30-Jan-06

Client Project ID: 105.03 Lab Order:

06-0296

CASE NARRATIVE

SAMPLE RECEIVING

Custody seals were not present.

The temperature of the sample(s) upon arrival was 18 °C.

Sample(s) were received in good condition, in the proper container, and within holding times. NJO

QUALITY ASSURANCE

Analyses performed on samples in this work order meet the requirements of the EAL Quality Assurance Program unless otherwise explained.

CLIENT SERVICES

Analysis instructions per client to SG, see email. SG

GENERAL CHEMISTRY

There are no anomalies to report. MM

Print Date: 1/30/06

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Collection Date: 1/13/06

Lab Order: Date Received: 06-0296

Units:

1/17/06 mg/L

Fluoride

Method: SM 4500-F C

Prep Method:

Lab ID	Client ID	Matrix	Date Prepared	Date Analyzed	Results	LQL	DF
06-0296-01A	Unmarked F	Water	1/25/06	1/25/06	1.7	0.40	1
06-0296-02A	5:45 F	Water	1/25/06	1/25/06	1.7	0.40	1
06-0296-03A	6:45 F	Water	1/25/06	1/25/06	1.7	0.40	1

Comments

P.P. Musics

Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

Definitions: DF - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 1/26/2006

Work Order: 06-0296

Client Project ID: 105.03

ANALYTICAL QC SUMMARY REPORT

TestCode: F_W

Sample ID MBLK	SampType: MBLK	TestCode: F_W Run ID: F_060125A	Prep Date: 1/25/2006 Units: mg/L
	Batch ID: R22050	TestNo: SM 4500-F C FileID: 49	Analysis Date: 1/25/2006 SeqNo: 403223
Analyte	Result	LQL SPK value SPK Ref Val %REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Fluoride	U	0.40	
Sample ID LCS	SampType: LCS	TestCode: F_W Run ID: F_060125A	Prep Date: 1/25/2006 Units: mg/L
	Batch ID: R22050	TestNo: SM 4500-F C FileID: 50	Analysis Date: 1/25/2006 SeqNo: 403224
Analyte	Result	LQL SPK value SPK Ref Val %REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Fluoride

10.17

0.40

10.1

0

101

90

110

0

0

3034256854

T-175 P.001

F-309

4036 Youngfield St. Wheat Ridge, CO 80033-3862 PH (303) 425-6021 FAX (303) 425-6854

EVELETCH WHathmen's The.

"Quality Data On Time"

"Quality Data On Time"	37
TO: & PM-Henry	DATE: 01/26/06
COMPANY: IDS - Hydro Consentan	# PAGES / 6 (Including Cover):
EAY#	FROM:

MESSAGE-Please deliver to the recipient immediately:

The information and accompanying materials in this fecsimile message are confidential information intended only for the individual or entity named above. If the reader of this message is not the intended recipient, or the employer or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication or accompanying materials is strictly prohibited. If you have received this communication in error, please notify us by telephone, and return the original message and accompanying materials to us at the above address via the U.S. Postal service. We will reimburse any reasonable costs you incur in notifying us and returning the message and accompanying materials to us. Thank you.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected:

1/13/06 1900 1/17/06

Lab Work Order 06-0290 Lab Sample ID: Sample Matrix:

Prep Method:

Prep Method:

Prep Method:

06-0290-01 Drinking Water

Method: SM2320B

Date Received:

Date Prepared: 1/19/06 Date Analyzed: 1/19/06 Lab File ID: Method Blank: MBLK

164 CAS Number

ALKALINITY V

Dilution Factor:

Lab Fraction ID: 06-0290-010 LOL Units

5.0

Total Alkalinity

Analytes

Result 66.0

mg/L CaCO3

Method: SM4500-CN E

Date Prepared: 1/23/06 Date Analyzed: 1/23/06 Analytes

Lab File ID: Method Blank: MBLK

70 CAS Number

SPECIFIC CONDUCTANCE @ 25°C

FLUORIDE /

TOTAL CYANIDE /

Dilution Factor: I

Lab Fraction ID: 06-0290-01K

Result LQL Units U 0.010 mg/L

Method: SM2510 B

Date Prepared: 1/18/06 Date Analyzed: 1/18/06 Lab File ID:

31

Dilution Factor:

Lab Fraction ID: 06-0290-01S

Analytes

Fluoride

Total Cyanide

CAS Number

Result

LOL Units

Specific Conductance

163

Prep Method:

1.00

µmhos/cm

Method: SM 4500-F C

Date Prepared: 1/25/06 Date Analyzed: 1/25/06 Analytes

Lab File ID:

51 Method Blank: MBLK CAS Number

Dilution Factor:

Lab Fraction ID: 06-0290-01J

16984-48-8

Result 1.7

LQL 0.40

Units mg/L

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value, Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

Surr - Surrogate

Print Date: 1/27/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected: Date Received:

1/13/06 1900 1/17/06

Lab Work Order Lab Sample ID:

Prep Method:

06-0290 06-0290-01

Drinking Water Sample Matrix:

Dilution Factor:

LANGELIER INDEX

PH

Method: SM2330B

Date Prepared: 1/27/06

Date Analyzed: 1/27/06 Analytes

CAS Number

Result

Lab Fraction ID: 06-0290-010 LOL

Units

Units

pH Units

mg/L

mg/L

-1.04

Method: E150.1

pH

Analytes

Langelier Index

Date Prepared: 1/17/06

Date Analyzed: 1/17/06 0000

Analytes

Prep Method:

Dilution Factor: Lab Fraction 10: 06-0290-010

CAS Number LOL Result 7.06 H1.00

Prep Method:

TOTAL DISSOLVED SOLIDS (TDS)

Method: SM 2540C

Date Prepared: 1/17/06 Date Analyzed: 1/18/06 0000

Lab File ID: 21 Method Blank: MBLK CAS Number

Dilution Factor: Lab Fraction ID: 06-0290-010 Result

LQL Units

10.0

122 TOTAL SUSPENDED SOLIDS (TSS)

Method: SM 2540 D

Total Dissolved Solids

Date Prepared: 1/18/06 Date Analyzed: 1/18/06 Analytes

Total Suspended Solids

Lab File ID: Method Blank: MBLK

15 **CAS Number**

Dilution Factor:

Lab Fraction ID: 06-0290-01T

5.0

Result

U

Prep Method:

LQL Units

Analyst

Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits U - Compound analyzed for but not detected

X - See case narrativo

Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

Surr - Surrogate

Print Date: 1/27/2006

Evergreen Analytical, Inc. 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

		(303) 423-0021	
Client Sample ID:	105.03	Lab Work Order: Lab Sample 1D: Sample Matrix: Lab File 1D: Method Blank: Prep Factor: Dilution Factor:	06-0290
Client Project ID:	105.03		06-0290-01A
Date Collected:	1/13/06		Drinking Water
Date Received:	1/17/06		VOA40118\1801018.D
Date Prepared:	1/18/06		MB4011806
Date Analyzed:	1/18/06		1.000
Percent Moisture:	NA		1.00

Method: E524.2	VOLATILE COM	POUNDS	Units: µg/L
Prep Method: E524.2	GAS Novel	Result	LQL
Analytes	CAS Number		0.50
Benzene /	71-43-2	U	0.50
Bromobenzenc >	108-86-1	υ 	* a
Bromochloromethane 🗸	74-97-5	U	0.50
Bromodichloromethane X	75-27-4	U	0.50
Bromoform χ	75-25-2	<u>U</u>	0.50
Bromomethane 🗸	74-83-9	U	0.50
n-Butylbenzene 🗹	104-51-8	U	0.50
sec-Butylbenzene	135-98-8	ប	0.50
t-Butylbenzene	98-06-6	U	0.50
Carbon tetrachloride /	56-23-5	U	0.50
Chlorobenzene	108-90-7	υ	0.50
Chloroethane 🗸	75-00-3	U	0.50
Chloroform /	67-66-3	U	0.50
Chloromethane *	74-87-3	ប	0.50
2-Chlorotoluene	95-49-8	Ŭ	0.50
4-Chlorotoluene	106-43-4	U	0.50
Dibromochloromethane 🗸	124-48-1	U	0.50
Dibromomethane ×	74-95-3	U	0.50
],2-Dichlorobenzene	95-50-1	U	0.50
1,3-Dichlorobenzene	541-73-1	U	0.50
1,4-Dichlorobenzene	106-46-7	U	0.50
Dichlorodifluoromethane «	75-71-8	U	0.50
1.1-Dichloroethane	75-34-3	U	0.50
1.2-Dichloroethane	107-06-2	U	0.50
1,1-Dichloroethene	75-35-4	U	0.50
cis-1,2-Dichloroethene	156-59-2	U	0.50
trans-1,2-Dichloroethene	156-60-5	U	0.50
1,2-Dichloropropane	78-87-5	ັນ	0.50
1,3-Dichloropropane ×	142-28-9	Ü	0.50
2,2-Dichloropropane ×	590-20-7	U	0.50
1,1-Dichloropropene ×	563-58-6	บ	0.50
cis-1,3-Dichloropropene ✓	10061-01-5	Ū	0.50
trans-1,3-Dichloropropene	10061-02-6	Ŭ	D.50
Ethylbenzene	100-41-4	Ű	0.50
Hexachlorobutadiene V	87-68-3	Ū	0.50
Isopropylbenzene Y	98-82-8	U	0.50
p-Isopropyltolueite Y	99-87-6	ŭ	0.50
Methylene chloride >	75-09-2	ŭ	0.50
Naphihalene V	91-20-3	Ü	0.50
	103-65-1	ΰ	0.50
n-Propylbenzene X	,	- Jw	
Anu		Ann	roved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result E - Extrapolated value. Value exceeds calibration range H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit MDL - Method Detection Limit

Surr - Surrogate

Print Date: 1/19/06

Evergreen Analytical, Inc. 4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

		(505) 125 0021	
Client Sample ID:	105.03	Lab Work Order:	
Client Project ID:	105.03	Lab Sample ID:	06-0290-01A
Date Collected:	1/13/06	Sample Matrix:	Drinking Water
Date Received:	1/17/06	Lab File ID:	\VOA40118\1801018\D
Date Prepared:	1/18/06	Method Blank:	MB4011806
Date Analyzed:	1/18/06	Prep Factor:	1.000
Percent Moisture:	NA	Dilution Factor:	1.00

Method: E524.2	VOLATILE COM	POUNDS	
Prep Method: E524.2			Units: µg/L
Analytes	CAS Number	Result	LQL
Styrene /	100-42-5	u	0.50
1,1,1,2-Tetrachlorocthane	630-20-6	ប	0.50
1,1,2,2-Teirachloroethane	79 - 34-5	U	0.50
Tetrachloroethene -	127-18 -4	U	0.50
Toluene /	108-88-3	5.0	0.50
I,2,3-Trichlorobenzenc >	87-61-6	П	0.50
1,2,4-Trichlorobenzene J	120-82-1	Ü	0.50
1,1,1-Trichloroethane -	71-55-6	บ	0.50
1,1,2-Trichloroethane —	79-00-5	IJ	0.50
Trichloroethene	79-01-6	U	0.50
Trichlorofluoromethane X	75-69-4	บ	0.50
1,2,3-Trichloropropane 🗸	96-18-4	U	0.50
1,2,4-Trimethylbenzene X	95-63-6	П	0.50
1,3,5-Trimethylbenzene	108-67-8	U	0.50
Vinyl chloride /	75-01-4	U	0.50
n,p-Xylene	1330-20-7	U	0.50
n-Xylene	95-47-6	U	0.50
Xylenes, Total	1330-20-7	U	0.50
Surr: 1,2-Dichlorobenzene-d4	2199-69-1	86	QC Limits: 70-130 %REC
Surr: 4-Bromofluorobenzene 🔩	460-00-4	83	QC Limits: 70-130 %REC

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL S - Spike Recovery outside accepted limits U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit MDL - Method Detection Limit

Surr - Surrogate

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample ID	105.03	Lab Work Order	06-0290	
Client Project ID	105.03	Lab Sample ID:	06-0290-01B	
Date Collected:	1/13/06	Sample Matrix:	Drinking Water	
Date Received:	1/17/06	Lab File ID:	\GCMS20124\1901	019.D
Date Prepared:	1/24/06	Method Blank:	MB-9108	
Date Analyzed:	1/25/06	Prep Factor:	0.001	
Percent Moisture	NA	Dilution Factor:	1.00	

Method: E525.2	ORGANIC COMPOUNDS			
Prep Method: E525.2 Analytes	CAS Number	Result	MDL	Units: µg/L LQL
Alachlor ′	15972-60-8	U	0.20	0.25
Atrazine /	1912-24-9	U	0.10	0.25
Вепло(а)рутелс	50-32-8	U	0.020	0.20
Butachlor <	23184-66-9	U	0.020	0,25
Bis(2-Ethylhexyl)adipate \(\tau \)	103-23-I	ប_	0,60	0.60
Bis(2-ethylhexyl)phthalate >	117-81-7	U	0.60	0,60
Metolachlor y	51218-45-2	U	0.020	0.25
Metribuzin 🗸	21087-64-9	U	0.020	0.25
Propachlor Y	1918-16-7	ប	0,010	0.25
Simazine -	122-34-9	<u> </u>	0,070	0,25
Surr: Perylenc-d12	1520-96-3	104	QC Limits:	70-130 %REC

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative
*-Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit MDI - Method Detection Limit

Surr - Surrogate

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862

(303) 425-6021	
<u> </u>	-

Client Sample ID:	105.03	Lab Work Order:	
Client Project ID:		Lab Sample ID:	06-0290-01C
Date Collected:	1/13/2006	Sample Matrix:	Drinking Water
Date Received:	1/17/2006	Lab File ID:	26.D
Date Prepared:	1/19/2006	Method Blank:	MB-9080
Date Analyzed:	1/19/2006	Prep Factor:	0.057
Percent Moisture:	NA	Dilution Factor:	1.00

Method: E504.1 Prep Method: E504.1	EDB/DBCP			Units: μg/L	
Analytes	CAS Number	Result	MDL	LQL	
1,2-Dibromo-3-chloropropane	96-12-8	Ŭ	0.02	0.02	
1,2-Dibromoethane	106-93-4	U	0.01	0.01	

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits
U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

T.QL - Lower Quantitation Limit MDL - Method Detection Limit Surr - Surrogate

Print Date: 1/20/2008

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected: 1/13/2006 1/17/2006 Date Received: 1/18/2006 Date Prepared: Date Analyzed: 1/18/2006 Percent Moisture: NA

Lab Work Order: 06-0290 06-0290-01D Lab Sample ID: Drinking Water Sample Matrix: ECD10117\038F Lab File ID: Method Blank: MB-9071

Prep Factor: 0.0051.00 Dilution Factor:

Method: E508	CHLORINATE	D PESTICIDES	S AND PCBS		
Prep Method: E508 Analytes	CAS Number	Result	MDL	Units: µg/L LQL	
Aldrin ⊀	309-00-2	U	0.010	0.010	
g-BHC +	58-89-9	U	0.010	0.010	
a-Chlordane	5103-71-9	U	0.010	0.010	
g-Chlordane	5103-74-2	Ų	0.010	0.010	
Dieldrín y	60-57-1	<u> </u>	0.010	0.010	
Endrin /	72-20-8	U	0.010	0.010	
HCCPD ≻	77-47-4	Ū	0.050	0.050	
Heptachlor /	76-44-8	U	0.010	0.010	
Heptachlor epoxide	1024-57-3	U	0.010	0.010	
Hexachlorobenzene /	118-74-1	<u>U</u>	0.012	0.012	
Methoxychlor -	72-43-5	U	0.050	0.050	
Toxaphene /	8001-35-2	U	0.50	0.50	
Chlordane _	57-74-9	U	0.20	0.20	
Aroclor 1016	12674-11-2	U	0.080	0.080	
Arocior 1221	11104-28-2	<u>U</u>	0,25	0,25	
Aroclor 1232	11141-16-5	U	0.25	0.25	
Aroclor 1242	53469-21-9	Ū	0.25	0.25	
Aroclor 1248	12672-29-6	U	0.10	0.10	
Aroclor 1254	11097-69-1	U	0.10	0.10	
Aroclor 1260	11096-82-5	U	0.20	0.20	
PCBs, Total y	1336-36-3	U	0.25	0.25	
Surr: TCMX &	877-09-8	83	QC Limits:	70-130 %REC	
Surr: DCB 📡	2051-24-3	82	QC Limits:	70-130 %REC	

Analyst

Qualificrs: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative
* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit MDL - Method Detection Limit

Surr - Surrogate

Print Date: 1/19/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Lab Work Order: 06-0290 Client Sample ID: 105.03 Client Project ID: 105.03 06-0290-01E Lab Sample ID: Date Collected: 1/13/2006 Sample Matrix: Drinking Water Date Received: 1/17/2006 Lab File ID: EC7001011023 Date Prepared: 1/23/2006 Method Blank: MB-9097 Prep Factor: 0.100 Date Analyzed: 1/23/2006 1.00 Percent Moisture: NA Dilution Factor:

Method: E515.4	CHLORINATED HERBICIDES				
Prep Method: E515.4 Analytes	CAS Number	Result	MDL	Units: µg/I LQL	
2,4-D 4	94-75-7	U	0.10	0.10	
Dicamba 7	1918-00-9	U	0.30	0.30	
Dalapon -	75-99-0	U	1.0	1.0	
Dinoseb /	88-85-7	U	0.20	0.20	
Pentachlorophenol /	<u>87-</u> 86 <u>-5</u>	u	0.040	0.040	
Picloram /	1918-02-1	U	0.10	0.10	
2,4,5-TP (Silvex) /	93-72-1	U	0.20	0.20	
Surr: DCAA	19719-28-9	100	QC Limits:	70-130 %REC	

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

Approved

LQL - Lower Quantitation Limit MDL - Method Detection Limit

Surr - Surrogate

Print Date: 1/24/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected: 1/13/06 Date Received: 1/17/06 Lab Work Order 06-0290 06-0290-01 Lab Sample ID: Drinking Water Sample Matrix:

CARBAMATES

Method: E531.1

Prep Method:

Date Prepared: 1/17/06 Date Analyzed: 1/18/06	Lab File ID: 12 Method Blank: MBLK		Dilution Factor: 1 Lab Fraction ID: 06-6)290 - 01F
Analytes	CAS Number	Result	LQL	Units
3-Hydroxycarbofuran	16655-82-6	U	0.50	μg/L
Aldicarb x	116-06-3	υ	0,50	μ g /L
Aldicarb sulfone	1646-88-4	ប	0.50	μg/L
Aldicarb sulfoxide	1646-87-3	Ū	0.50	μg/L
Carbaryl	63-25-2	บ	0.50	μg/L
Carbofuran	1563-66-2	U	0.50	μg/L
Methiocarb	2032-65-7	U	1.0	μg/L
Methomyl	16752-77-5	υ	0.50	μg/Ĺ
Oxamyl	23135-22-0	U	0.50	μg/L
Propoxur	114-26-1	U	0,50	μg/L

Analyst

Approved

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value, Value exceeds calibration range II - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

Surr - Surrogate

Print Date: 1/19/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		(+0+) the ound			
Client Sample ID	105.03		Lab Work Order	06-0290	-
Client Project ID	105.03		Lab Sample ID:	06-0290-01G	
Date Collected:	1/13/06		Sample Matrix:	Drinking Water	
Date Received:	1/17/06		Lab File ID:	\GCM\$20120\160	1016 D
Date Prepared:	1/20/06		Method Blank:	MB-9089	1010.D
Date Analyzed:	1/20/06		Prep Factor:	0.100	
Percent Moisture	NA		Dilution Factor:	1.00	
Method: E548.		ENDOTHALL			
Prep Method: I	£548.1				

Method: E548.1 Prep Method: E548.1	ENDOTHALL			5077-607
Analytes	CAS Number	Result	Units: µg LQL	/L
Endothall	145-73-3	Ų	40	

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery ourside accepted limits
U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions:

NA - Not Applicable LQL - Lower Quantitation Limit MDL - Mcthod Detection Limit

Surr - Surrogate

Client ID

105.03

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Project ID 105.03 Collection Date: 1/13/06

Lab Order: Date Received: 06-0290 1/17/06

Units:

μg/L

Diquat

Matrix

Drinking Water

Method: E549,2

Prep Method: E549.2

Date	Date		1	
Prepared	Analyzed	Results	LQL	DF
1/20/06	1/23/06	U	0.40	1

06-0290-01H Comments

Lab ID

Analyst

Approved

Qualifiers: J - Indicates an estimated value when the compound is detected, but is below the LQL

H - Sample exceeded analytical holding time

U - Compound analyzed for but not detected

X - See case narrative

Definitions: DI7 - Dilution Factor

LQL - Lower Quantitation Limit

Print Date: 1/24/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected: 1/13/06 1900 Date Received: 1/17/06 Lab Work Order 06-0290
Lab Sample ID: 06-0290-01
Sample Matrix: Drinking Water

ANIONS BY IC

Method: E300

Prep Method:

Date Prepared: 1/17/06

Date Analyzed: 1/17/06 1311

Method Blank: METHOD BLANK

Dilution Factor: 1 Lab Fraction ID: 06-0290-011

CAS Number Result LQL Units Analytes Nitrite-N UH 0.076 mg/L Nitrate-N UН 0.056 mg/L Nitrite+Nitrate-N UH 0.076 mg/L Sulfate 7778-80-2 12,3 0.50 mg/L

> J. Lange Analyst

Approved

Qualifiers: B. Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

Surr - Surrogate

06-0290-01

Drinking Water

Evergreen Analytical, Inc.

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample ID: 105.03 Client Project ID: 105.03 Date Collected: 1/13/06 1900 Date Received: 1/17/06

Lab Work Order 06-0290 Lab Sample ID: Sample Matrix:

TURBIDITY

Method: E180.1

Date Prepared: 1/17/06 Date Analyzed: 1/17/06 1320

Method Blank: MB-R21857

CAS Number

Dilution Factor:

Lab Fraction ID: 06-0290-01U Units LQL

Analytes Turbidity

7.31 H

Result

Prep Method:

0.10

NTU

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value, Value oxceeds calibration range

A - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

S - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected X - See case namative

* -Value exceeded the Maximum Contamination Level (MCL)

Approved

Definitions: NA - Not Applicable

LQL - Lower Quantitation Limit

Surr - Surrogate

Print Date: 1/27/2006

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample 1D: 105.03 Client Project ID: 105.03 Date Collected: 1/13/06 Date Received: 1/17/06

Lab Work Order: 06-0290 Lab Sample ID: 06-0290-01 Sample Matrix: Drinking Water

DISSOLVED METALS

Method: E200.7

Prep Method: E200.7/SW3010 Date Prepared: 1/20/06 Lab File ID: 012306PM Dilution Factor: Date Analyzed: 1/24/06 Method Blank: MB-9085 Lab Fraction ID: 06-0290-01L Analytes CAS Number Result LQL Units Iron 7439-89-6 mg/L 1.5 0.070 Manganese 7439-96-5 0.23 0.0050 mg/L

METALS, DRINKING WATER Method: E200.8

Prep Method: E200.8

Date Prepared: 1/18/06 Date Analyzed: 1/18/06	Lab File ID: 06 Method Blank: M	50118B.B\044SMPL.D IB-9073	Dilution Factor: 1 Lab Fraction ID: 06-	0290-01N
Analytes	CAS Number	Result	LQL	Units
Antimony 4	7440-36-0	U	0,0020	mg/L
Arsenic (7440-38-2	υ	0.0020	mg/L
Barium /	7440-39-3	0.079	0.010	mg/L
Beryllium /	7440-41-7	U	0.0010	mg/L
Çadmium /	7440-43-9	IJ	0.00050	mg/L
Chromium ~	7440-47-3	U	0.0060	mg/L
Copper /	7440-50-8	U	0.010	mg/L
Lead C	7439-92-1	U	0.0020	mg/L
Nickel ^k	7440-02-0	U	0,010	mg/L
Selenium /	7782-49-2	0.0031	0.0020	mg/L
Sodium ⊁	7440-23-5	3.6	0.50	mg/L
Thallium /	7440-28-0	U	0.0010	mg/L
Uranium C	7440-61-1	υ	0.0010	mg/L

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

I - Indicates an estimated value when the compound is detected, but is below the LQL

5 - Spike Recovery outside accepted limits

U - Compound analyzed for but not detected

X - See case narrative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

LOL - Lower Quantitation Limit

Surr - Surrogate

4036 Youngfield Street, Wheat Ridge, Colorado 80033-3862 (303) 425-6021

Client Sample 1D: 105.03 Client Project ID: 105.03 Date Collected:

. = := : Lab Work Order: 06-0290 Lab Sample 1D: 06-0290-01 Sample Matrix: Drinking Water

Date Received:

1/13/06 1/17/06

MERCURY, DRINKING WATER

Method: E245.1

Prep Method: E245.1

Date Prepared: 1/19/06 Date Analyzed: 1/19/06

Lab File 1D: Method Blank: MB-9076

06011901

Dilution Factor:

Lab Fraction ID: 06-0290-01N Result LQL Units

Analytes Mercury / CAS Number 7439-97-6

U

0.00010

mg/L

Analyst

Qualifiers: B - Analyte detected in the associated Method Blank, value not subtracted from result

E - Extrapolated value. Value exceeds calibration range

H - Sample exceeded analytical holding time

J - Indicates an estimated value when the compound is detected, but is below the LQL

8 - Spike Recovery outside accepted limits U - Compound analyzed for but not detected

X - See case namative

* -Value exceeded the Maximum Contamination Level (MCL)

Definitions: NA - Not Applicable

1 QL - Lower Quartitation Limit

Suir - Surrogare

Print Date: 1/24/06