0019

PLATEAU MINING CORPORATION

Willow Creek Mine
P.O. Box 30
847 NW HWY 191
Helper, Utah 84526
Phone (435)472-4737
Fax: (435)472-4782

June 5, 2005

Fax 801-~~539~~ 359 3940
12 pages inc. cover

Ms. Pamela Grubaugh-Littig
Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Engineering Report forthe Raw Water Pond and PRWID acceptance of Operating and Maintenance of the Raw Water Pond, Plateau Mining Corporation, Willow Creek Mine, C/007/038

Incoming
C/007/0038

Dear Ms. Grubaugh-Littig:

Dana Dean ask me to provide the Division with both an engineering evaluation of the Willow Creek Raw Water Pond which is located on the land sold to the Price River Water Improvement District (PRWID) and a letter from PRWID indicating that PRWID has accepted responsibility for the operation and maintenance of said Raw Water Pond. The two requested documents are enclosed.

Should you have any further questions or need any additional information please give me a call.

Sincerely,

Dennis N. Ware
Controller and Administrative Manager

Enclosures

Enviro/PermitActions/WillowCreek/PreparationPlantandRefusePile/CoverLetter

RECEIVED
JUN 05 2006
DIV. OF OIL, GAS & MINING

PRICE RIVER WATER
IMPROVEMENT DISTRICT
P.O. Box 903
265 South Fairgrounds Road
Price, Utah 84501
Telephone (435) 637-6350
FAX (435) 637-6374

May 30, 2006

Dennis N. Ware
Controller and Administrative Manager
Plateau Mining Corporation
P.O. Box 30
Helper, Utah 84526

Dear Mr. Ware,

I am writing this letter to officially inform Plateau Mining Corporation (PMC) that the Price River Water Improvement District (PRWID) did, concurrent with the purchase of land from PMC (Purchase Agreement dated April 23, 2004), take over the operation and maintenance responsibility for the Raw Water Pond Located in the E ½ of Section 35, Township 12 South, Range 9 East, SLB&M, Carbon County Utah.

In addition to taking over responsibility for the operations and maintenance of the raw water pond, PRWID has also taken over maintenance responsibility for certain roads that exist on the land PRWID purchased from PMC. The roads which PRWID have responsibility for include Primary Roads 1, 2, 4 and 5 as shown on PMC's Willow Creek Permit exhibit 3, 4-9 "Prep. Plant Area and Refuse Pile Reclamation Topography Map" dated December 2003. PRWID's responsibility for maintenance of these roads is restricted to that portion of these roads that exist on land owned by PRWID.

Sincerely,

Phillip P. Palmer
District Manager
Price River Water Improvement District
P.O. Box 903
265 S. Fairgrounds Road
Price, Utah 84501
(435)637-6350

CLEAN WATER

RECEIVED
JUN 05 2006
PLATEAU MINING

EarthFax

EarthFax
Engineering, Inc.
Engineers/Scientists
7324 So. Union Park Ave.
Suite100
Midvale, Utah 84047
Telephone 801-561-1555
Fax 801-561-1861
www.earthfax.com

June 5, 2006

Dennis N. Ware
Plateau Mining Corporation
P.O. Box 30
Helper, UT 84526

Subject: Willow Creek Raw Water Pond Permanent Impoundment Adequacy

Dear Dennis:

Pursuant to your request, I have evaluated the adequacy of the Raw Water Pond at the Willow Creek preparation plant for retention as a permanent impoundment under the rules of the Utah Division of Oil, Gas and Mining (specifically, the requirements of R645-301-743). The Raw Water Pond is designed to contain water diverted from the adjacent Price River. Prior to site reclamation, this water was used in the preparation plant for process purposes. It is my understanding that Plateau is currently in the process of transferring ownership of this pond to the Price River Water Improvement District.

The pond has been in place for at least 20 years, as evidenced by aerial photographs of the site. It is designed to hold approximately 4.3 acre-feet of water below the overflow device (a 15-inch diameter corrugated metal pipe that discharges to the Price River). The embankment of the pond extends a minimum of 2 feet above the overflow pipe.

I conducted an inspection of the pond on June 1, 2006 and observed no signs of instability. My casual observations of the pond over the past several years have also indicated no concerns with respect to the structural stability of the pond.

Calculations used to evaluate the adequacy of the overflow pipe to safely handle runoff flowing into the pond are presented in Attachment A. As indicated, the spillway system will safely convey the peak runoff into the pond from both the 25-year, 6-hour precipitation event and the 100-year, 6-hour precipitation event. As further indicated, the amount of water entering the pond during the 25- and 100-year events will be 2.5% and 5.1% of the storage volume below the invert of the outflow pipe. Given the settling capacity of the pond and the effects of dilution, no adverse impacts to water quality in the Price River are anticipated from runoff entering the pond.

Given these conditions, it is my opinion that the Raw Water Pond meets the permanent impoundment requirements of R645-301-743. Please contact me if you have any questions.

Sincerely,

Richard B. White, P.E.
President

Attachment (HydroCAD Calculations)

REGISTERED PROFESSIONAL ENGINEER
No. 168346
RICHARD B. WHITE
STATE OF UTAH

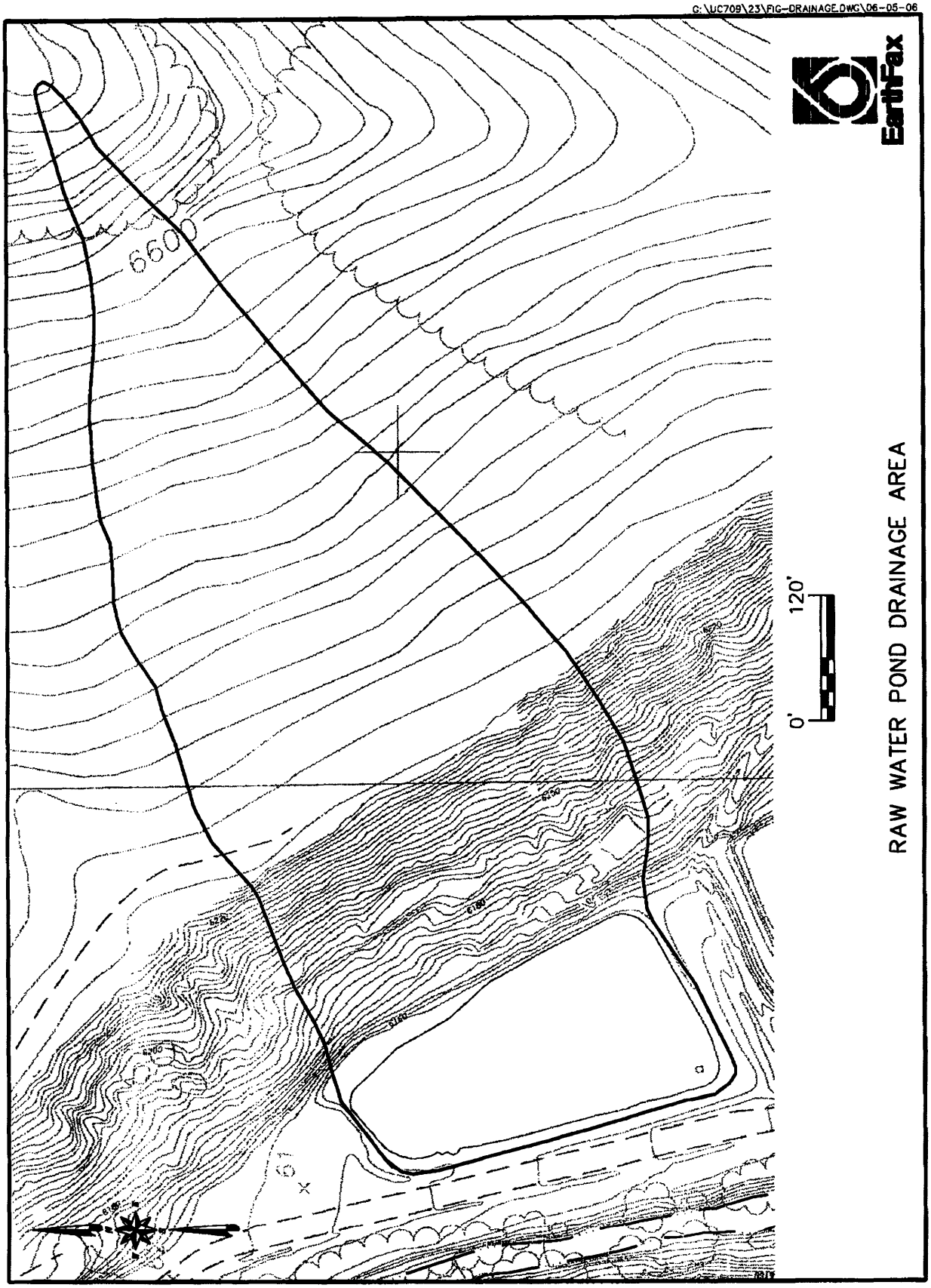
JUN 05 2006

ATTACHMENT A

HydroCAD Calculations

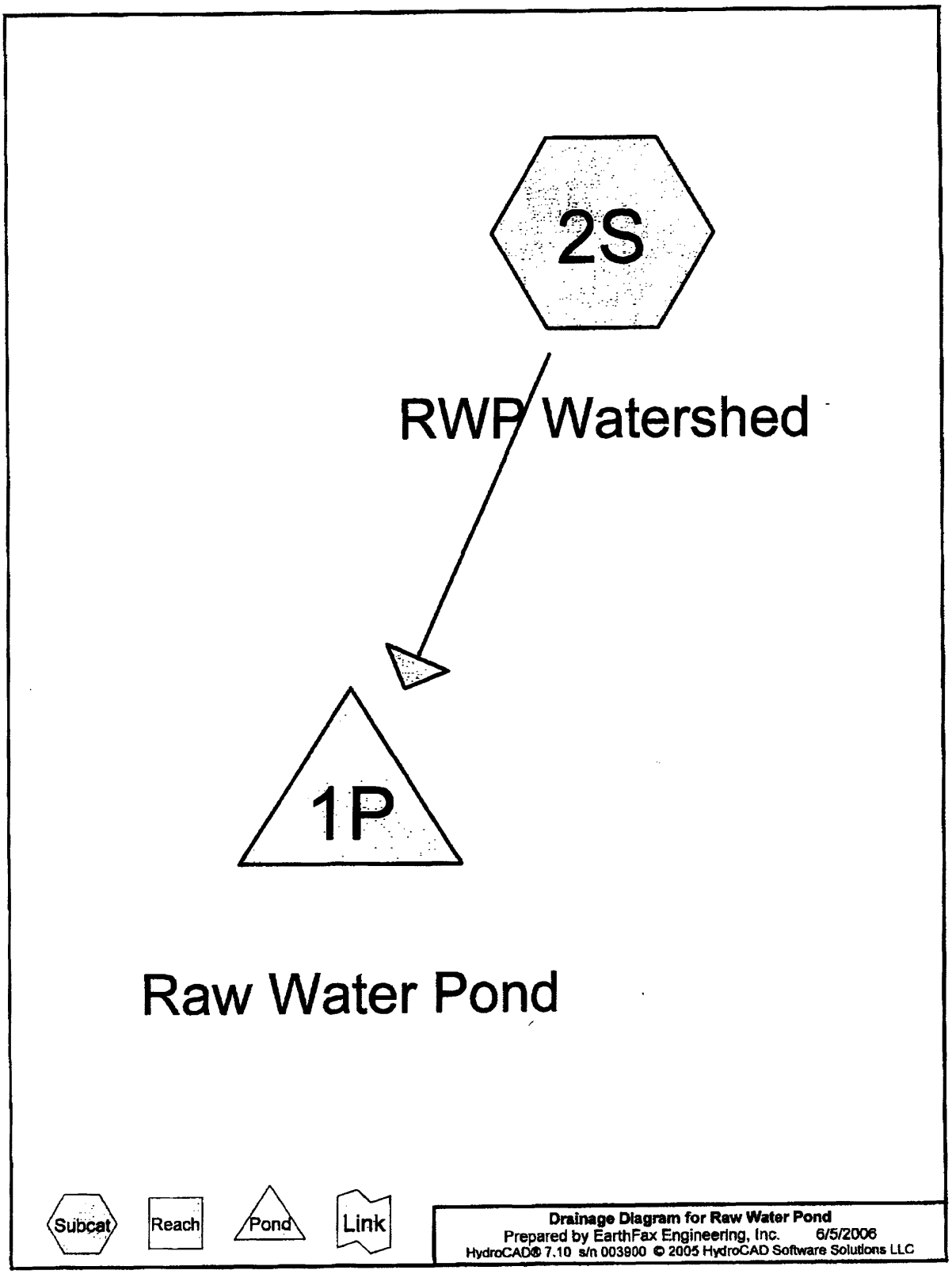
JUN 05 2006

C:\UC709\23\FIG-DRAINAGE.DWG\06-05-06



RAW WATER POND DRAINAGE AREA

JUN 05 2006


2S
RWP Watershed
1P
Raw Water Pond
Subcat
Reach
Pond
Link
Drainage Diagram for Raw Water Pond
Prepared by EarthFax Engineering, Inc. 6/5/2006
HydroCAD® 7.10 s/n 003900 © 2005 HydroCAD Software Solutions LLC

JUN 05 2006

Subcatchment 2S: RWP Watershed

Runoff = 1.20 cfs @ 3.39 hrs, Volume= 0.114 af, Depth= 0.20"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-24.00 hrs, dt= 0.10 hrs
Type II 24-hr 6.00 hrs 25-yr, 6-hr Rainfall=1.60"

Area (ac)	CN	Description
5.580	70	Drainage area
1.110	100	Pond area
6.690	75	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	6,400	0.3800	4.0		**Lag/CN Method, Raw water pond watershed**

JUN 05 2006

Pond 1P: Raw Water Pond

Inflow Area =	6.690 ac,	Inflow Depth =	0.20"	for	25-yr, 6-hr event
Inflow =	1.20 cfs @	3.39 hrs,	Volume=	0.114 af	
Outflow =	0.02 cfs @	6.63 hrs,	Volume=	0.033 af,	Atten= 98%, Lag= 194.6 min
Primary =	0.02 cfs @	6.63 hrs,	Volume=	0.033 af	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.10 hrs
Starting Elev= 197.00' Surf.Area= 1.112 ac Storage= 4.299 af
Peak Elev= 197.10' @ 6.63 hrs Surf.Area= 1.117 ac Storage= 4.408 af (0.109 af above start)
Plug-Flow detention time= (not calculated: initial storage excedes outflow)
Center-of-Mass det. time= 552.4 min (805.3 - 252.8)

Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	6.631 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

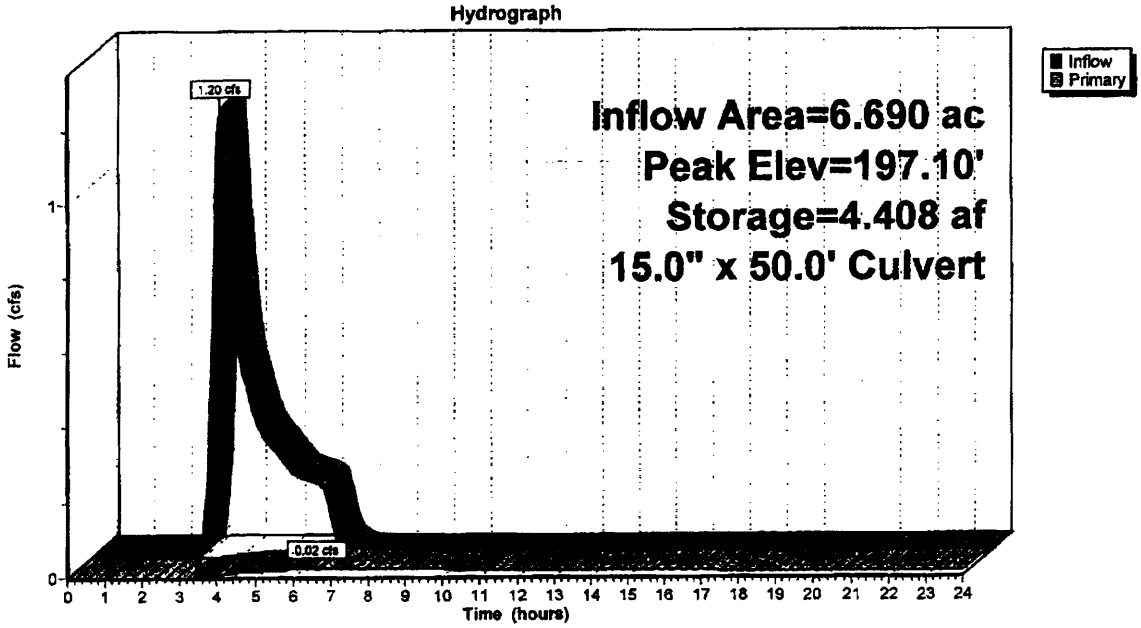
Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
192.00	0.413	0.000	0.000
193.00	0.647	0.530	0.530
194.00	0.847	0.747	1.277
195.00	0.988	0.918	2.195
196.00	1.054	1.021	3.216
197.00	1.112	1.083	4.299
198.00	1.165	1.139	5.437
199.00	1.223	1.194	6.631

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	**15.0" x 50.0' long Culvert** CMP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 196.50' S= 0.0100 '/' Cc= 0.900 n= 0.025 Corrugated metal

Primary OutFlow Max=0.02 cfs @ 6.63 hrs HW=197.10' (Free Discharge)
└─**1=Culvert** (Barrel Controls 0.02 cfs @ 0.8 fps)

JUN 05 2006

Pond 1P: Raw Water Pond



JUN 05 2006

Subcatchment 2S: RWP Watershed

Runoff = 3.14 cfs @ 3.35 hrs, Volume= 0.240 af, Depth= 0.43"

Runoff by SCS TR-20 method, UH=SCS, Time Span= 0.00-24.00 hrs, dt= 0.10 hrs
Type II 24-hr 6.00 hrs 100-yr, 6-hr Rainfall=2.10"

Area (ac)	CN	Description
5.580	70	Drainage area
1.110	100	Pond area
6.690	75	Weighted Average

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.4	6,400	0.3800	4.0		**Lag/CN Method, Raw water pond watershed**

JUN 05 2006

Raw Water Pond *Type II 24-hr 6.00 hrs 100-yr, 6-hr Rainfall=2.10"*
Prepared by EarthFax Engineering, Inc.
HydroCAD® 7.10 s/n 003900 © 2005 HydroCAD Software Solutions LLC 6/5/2006

Pond 1P: Raw Water Pond

Inflow Area =	6.690 ac,	Inflow Depth =	0.43"	for 100-yr, 6-hr event	
Inflow =	3.14 cfs @	3.35 hrs,	Volume=	0.240 af	
Outflow =	0.10 cfs @	6.47 hrs,	Volume=	0.108 af,	Atten= 97%, Lag= 187.1 min
Primary =	0.10 cfs @	6.47 hrs,	Volume=	0.108 af	

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.10 hrs
Starting Elev= 197.00' Surf.Area= 1.112 ac Storage= 4.299 af
Peak Elev= 197.20' @ 6.47 hrs Surf.Area= 1.122 ac Storage= 4.520 af (0.221 af above start)
Plug-Flow detention time= (not calculated: initial storage excedes outflow)
Center-of-Mass det. time= 496.8 min (741.6 - 244.8)

Volume	Invert	Avail.Storage	Storage Description
#1	192.00'	6.631 af	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (acres)	Inc.Store (acre-feet)	Cum.Store (acre-feet)
192.00	0.413	0.000	0.000
193.00	0.647	0.530	0.530
194.00	0.847	0.747	1.277
195.00	0.988	0.918	2.195
196.00	1.054	1.021	3.216
197.00	1.112	1.083	4.299
198.00	1.165	1.139	5.437
199.00	1.223	1.194	6.631

Device	Routing	Invert	Outlet Devices
#1	Primary	197.00'	**15.0" x 50.0' long Culvert** CMP, end-section conforming to fill, Ke= 0.500 Outlet Invert= 196.50' S= 0.0100 '/' Cc= 0.900 n= 0.025 Corrugated metal

Primary OutFlow Max=0.10 cfs @ 6.47 hrs HW=197.20' (Free Discharge)
└─**1=Culvert** (Barrel Controls 0.10 cfs @ 1.2 fps)

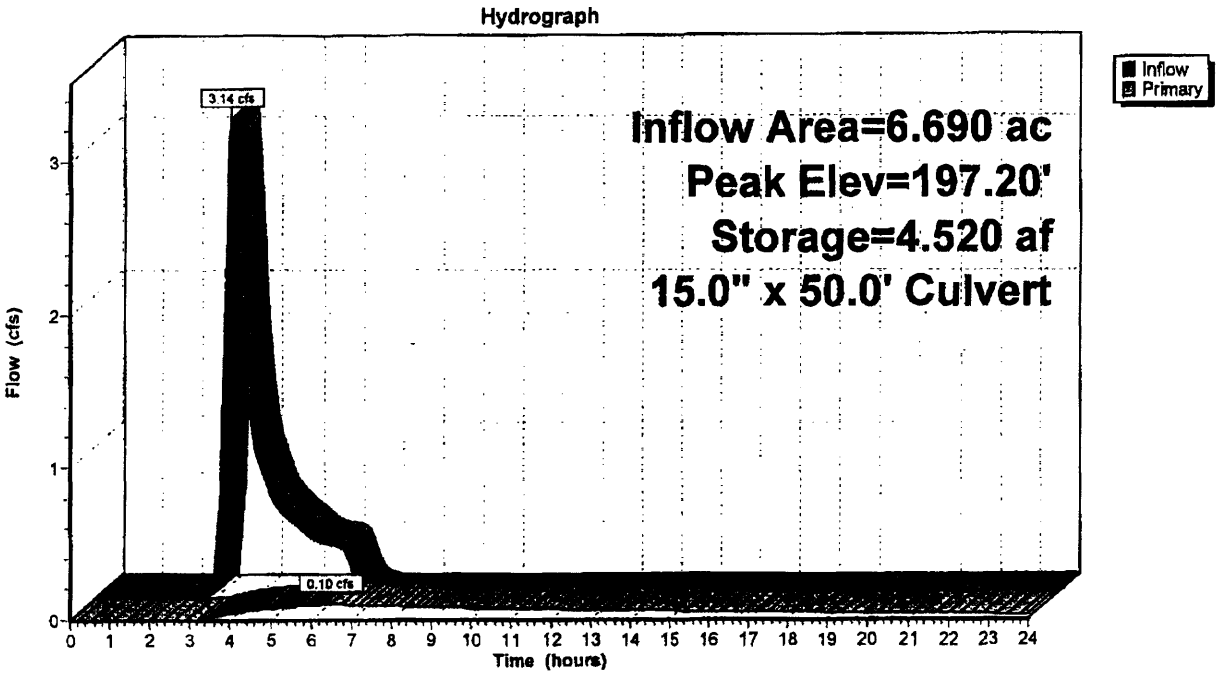
JUN 05 2006

Raw Water Pond *Type II 24-hr 6.00 hrs 100-yr, 6-hr Rainfall=2.10"*

Prepared by EarthFax Engineering, Inc.

HydroCAD® 7.10 s/n 003900 © 2005 HydroCAD Software Solutions LLC 6/5/2006

Pond 1P: Raw Water Pond



JUN 05 2006