FILE:

McLaughlin Water Engineers, Ltd.

2420 Alcott Street, Denver, Colorado 80211 (303) 458-5550
Facsimile (303) 480-9766

September 23, 1993

RONALD C. McLAUGHLIN
HALFORD E. ERICKSON
WILLIAM R. KENDALL
RALPH L. TOREN
TERRENCE P. KENYON
GEZA E. KMETTY
RICHARD E. McLAUGHLIN

GENE A. BURRELL
MICHAEL E. MERCER
JOHN M. PFLAUM
MICHAEL R. GALUZZI
SCOTT E. LEHMAN
BRIAN S. KOLSTAD
R. JAMES McLAUGHLIN
G. DEAN DEROSIER
EDWARD D. BAIN
BRIAN E. CHEVALIER
PAUL D. ZACHARY

J. HAROLD ROBERTS
LEANDER L. URMY
DANIEL M. PETRAMALA
RONALD D. LUCERO

Ms Megan Estep-Johnston
U.S. Fish and Wildlife Service
Water Resources — Region 6
P.O. Box 25486
Mail Stop 60189
Denver Federal Center
Denver, CO 80225

RE: Minutes of September 21, 1993 Meeting

Dear Ms. Estep-Johnston:

Enclosed are minutes of the September 21, 1993 meeting on the Stapleton Outfall Systems Planning Study. The next meeting is scheduled for Tuesday, October 12, 1993 at 2 p.m. at the MWE office. Tentative agenda items are as follows:

1. Presentation of existing conditions hydrologic model;

2. Status of conceptual full buildout hydrologic model;

3. Presentation/discussion of development intensity (percent impervious), infiltration and groundwater relationships;

4. Status of utility/infrastructure data compilation; and

5. Input from interested parties/agencies.

Very truly yours,

John M. Pflaum

John M. Pflaum

Enclosures

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WATER RESOURCES

JMP:es
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RECORD OF MEETING
STAPLETON OUTFALL SYSTEMS PLANNING

Date: September 22, 1993
Location: MWE Office
Attendees: Refer to Attached List

The meeting began with an opening statement by Ben Urbonas. Ben explained the general scope of the Outfall Systems Plan. Each of the attendees then introduced themselves.

Brian Chevalier explained some of the initial work by the team, which included a description of the existing site basin boundaries and outfalls, and data collection process. During the presentation it was confirmed by attendees that Section 9, currently leased by the Arsenal to Stapleton, is under land use studies by Commerce City and U.S. Fish and Wildlife, therefore it would not be under development control by Stapleton and/or other groups associated with the redevelopment of Stapleton. Brian explained that the runoff control points would probably shift from location along Quebec Street to upstream (east) to the boundary of Section 9 and the airport property.

A period of open discussion followed during which the following topics were covered:

Wetlands

A question was raised by Terry McKee regarding the Corps and EPA's recommended wetlands replacement ratio for the site. Terry explained his process for determination of "Waters of the U.S." and ideas such as a wetlands "bank" for the site, and discussion as to who the "banker" would be. A good wetlands inventory was recommended. Since the nature of the current study's scope is a master plan and not immediate construction, the detailed wetlands inventory was deemed not needed immediately.

Arsenal

John Law presented a brief overview of the treatment area on the arsenal site, the location of Commerce City intake wells, and discussion regarding future runoff disposal from the Stapleton site. Some contaminants are known to travel through the Stapleton site to the arsenal in a northwesterly direction. John said the RMA people are willing to cooperate in alternative reviews of the study to best determine which alternatives could be the least damaging to arsenal cleanup efforts.

Montbello Intercepter

An alternative of redirecting the Montbello interceptor, that is, removing the concrete lining and meandering the channel through the site was discussed. Both J.D. Smith of RMA and Gerry Roehm of USFWS had no immediate objection to the plan even though some net loss of water (due to removal of the liner) would result.

Project Scope

Alan Brown explained the Foundation's tentative site planning schedule of about 9 months. Some discussion followed regarding the current project's scope and products and interaction with the Foundation's planners. Alan will try to have a rough plan of future site development land use within 1 to 2 weeks for use in the full buildout model.

Next Meeting

The team's next meeting is planned for October 12. MWE will present a working existing conditions model of the site which will be open for review and comments. MWE will also present the findings of an initial investigation into the relationship of impervious area and groundwater mounding. Depending on the availability of the future land use plan, preliminary results of the full buildout test model may also be available.

McLaughlin Water Engineers, Ltd.

Project Title: Stapleton Area Outfalls Project No. _____ Date: 9/21/93

Subject _____ Designed _____ Page _____

Attendance List

Name	Organization	Phone
Brian Chevalier	MWE	458-5550
Terry McKee	CORPS of ENGINEERS	979-4120
Rex Fletcher	" "	" "
Marv Bangert	CDOT R6 Utilities	757-9250
Garth Englund	CDOT Hydraulics	757-9342
Myles Carter	CCD SIA ENG	270-1603
Tom Nelson	DENVER WMD	964-0575
Terry Baus	" "	964-0579
JD Smith	Rocky MTN Arsenal	289-0239
John Law	Morrison Knudsen for Shell Oil	860-8621
Bill Wenk	Wenk Assoc. / MWE	295-0778
Ben Urbonas	Urban Drainage	455-6277
Gerry Roehm	USFWS (RMA)	289-0232
Monar Estep-Johnston	USFWS (Water Resources)	236-5322
Alan Brown	Stapleton Redev. Foundation	892-5725
John Doerfer	Urban Drainage	455-6277