EBASCO

RFEV21-EDEN-GEN-M-033
Tuesday, July 30, 1991

Colorado Division of Water Resources
Office of the State Engineer
818 Centennial Bldg.
1313 Sherman Street
Denver, CO 80203

Attention: Mr. Fred Loo

Subject: Notice of Intent to Construct Boreholes at Rocky Flats Plant
Phase III RI/FS for 881 Hillside, Operable Unit 1
BA 71785EB

Dear Mr Loo:

Ebasco Environmental (EBASCO) will be conducting the Phase III RCRA Facility Investigation/CERCLA Remedial Investigation for the 881 Hillside Area, Operable Unit 1 (OU1), at the Rocky Flats Plant (RFP). This site covers approximately 8 acres. The investigation will focus on providing a better definition of potential sources of contamination present, site physical features, and the nature and extent of contamination present in soils, sediments, groundwater, and surface water. Work will be performed under contract BA71785EB for EG&G Rocky Flats, Inc.

Rocky Flats Plant is situated on a broad, gently sloping alluvial fan composed of poorly sorted cobbles, pebbles, and gravels in a sandy clay matrix referred to as the Rocky Flats Alluvium. The average thickness of the alluvium in the 881 Hillside Area varies from 0 to 20 ft. Groundwater is present under unconfined conditions with the water table depth at approximately 12 ft.

Rocky Flats Alluvium unconformably overlies bedrock of the Cretaceous Arapahoe Formation which predominantly consists of claystones along with interbedded lenticular sandstones, siltstones, and occasional minor lignite beds. The greatest potential for groundwater flow in the Arapahoe Formation at 881 Hillside occurs in the sandstones as a confined system.

Coring, sampling, and well installation will be conducted in both the alluvium and the weathered portion of the upper Arapahoe bedrock. It is anticipated that the average depth to the bottom of this weathered zone at 881 Hillside will be approximately 50 ft.

During the Phase III field program, approximately 97 new sampling locations will be added to characterize site conditions. These include 54 additional soil borings, 37 groundwater monitoring wells, and six piezometers. Up to 16 additional monitoring wells may possibly be installed depending on results from the soil borings. Notification of these additional monitoring wells will be sent to you at a later date as an amendment to this Intent to Construct.

EBASCO SERVICES INCORPORATED
143 UNION BOULEVARD • SUITE 1010 • LAKEWOOD, CO 80228-1824 • (303) 988-2202

All operations will be conducted in accordance with all appropriate approved Rocky Flats Standard Operating Procedures (SOPs) written by EG&G. The SOPs were designed to meet or exceed the requirements of the Revised and Amended Rules and Regulations of the Board of Examiners of Water Well Construction and Pump Installation Contractors, thus, this drilling will comply with Rule 6.4 - Compliance with Regulations. This drilling will be conducted between August 1991 and December 1991 by Boyles Bros. Drilling Company, a licensed well construction contractor who will operate under License Number 436 issued to George Lensch by the Colorado Board of Examiners of Well Construction and Pump Installation Contractors. Drilling will be directly supervised by EBASCO Team geologists under the oversight of EG&G geological personnel.

This letter and Attachment A serve as a Notice of Intent to Construct boreholes in accordance with Rule 6.3 and Table 2 of the Revised and Amended Rules and Regulations of the Board of Examiners of Water Well Construction and Pump Installation Contractors, revised July 30, 1988. Attachment A of this notice contains the required information specified in Rule 6.3 pertaining to ownership, approximate anticipated date of drilling, location, number, type, depth, and purpose. This Notice of Intent is being furnished at least three days (72 hours) prior to the onset of construction as specified in Rule 6.3.

Please contact me at 980-3624 if you have any questions or comments. Thank you for your assistance.

Sincerely,
EBASCO SERVICES INCORPORATED

Hannah Pavlik

Hannah Pavlik
Project Manager

HP/llh

Attachment

cc: C. Nylander
D. Cushing
C. Gee/EG&G
C. Bieniulis
DCC-RFEV
Chron-RFEV

ATTACHMENT A

Notice of Intent to Construct
Boreholes, Monitoring Wells and Piezometers
at the Rocky Flats Plant for the
Phase III RI/FS - 881 Hillside, Operable Unit 1

LANDOWNER: *DEPARTMENT OF ENERGY*
WELL OWNER: *DEPARTMENT OF ENERGY*

Approximate Date of Construction: August 1, 1991

Proposed Site	Location Section/Qtr	Township Range	Estimated Depth (ft)	Purpose
Monitoring Wells				
MW01	11/SW	T2S, R70W	15 - 20	Site Characterization
MW02	11/SW	T2S, R70W	15 - 20	Site Characterization
MW03	14/NW	T2S, R70W	15 - 20	Site Characterization
MW04	11/SW	T2S, R70W	15 - 20	Site Characterization
MW05	11/SW	T2S, R70W	15 - 20	Site Characterization
MW06	11/SW	T2S, R70W	15 - 20	Site Characterization
MW07	11/SE	T2S, R70W	15 - 20	Site Characterization
MW08	11/SW	T2S, R70W	15 - 20	Site Characterization
MW09	11/SE	T2S, R70W	15 - 20	Site Characterization
MW10	11/SE	T2S, R70W	15 - 20	Site Characterization
MW11	11/SE	T2S, R70W	15 - 20	Site Characterization
MW12	11/SE	T2S, R70W	15 - 20	Site Characterization
MW13	11/SE	T2S, R70W	15 - 20	Site Characterization
MW14	11/SW	T2S, R70W	15 - 20	Site Characterization
MW15	11/SW	T2S, R70W	15 - 20	Site Characterization
MW16	11/SW	T2S, R70W	15 - 20	Site Characterization
MW17	11/SW	T2S, R70W	15 - 20	Site Characterization
MW18	11/SW	T2S, R70W	15 - 20	Site Characterization
MW19	11/SW	T2S, R70W	15 - 20	Site Characterization
MW20	11/SW	T2S, R70W	15 - 20	Site Characterization
MW21	11/SW	T2S, R70W	15 - 20	Site Characterization
MW22	11/SW	T2S, R70W	15 - 20	Site Characterization
MW23	11/SE	T2S, R70W	15 - 20	Site Characterization
MW24	11/SE	T2S, R70W	15 - 20	Site Characterization
MW25	11/SE	T2S, R70W	15 - 20	Site Characterization
MW26	11/SW	T2S, R70W	15 - 20	Site Characterization
MW27	11/SE	T2S, R70W	45 - 50	Site Characterization
MW28	11/SE	T2S, R70W	45 - 50	Site Characterization

Proposed Site	Location Section/Qtr	Township Range	Estimated Depth (ft)	Purpose
MW29	11/SE	T2S, R70W	45 - 50	Site Characterization
MW30	11/SE	T2S, R70W	15 - 20	Site Characterization
MW31	11/SE	T2S, R70W	15 - 20	Site Characterization
MW32	11/SE	T2S, R70W	15 - 20	Site Characterization
MW33	14/NW	T2S, R70W	15 - 20	Site Characterization
MW34	14/NW	T2S, R70W	15 - 20	Site Characterization
MW35	11/SE	T2S, R70W	15 - 20	Site Characterization
MW36	14/NW	T2S, R70W	15 - 20	Site Characterization
MW37	11/SE	T2S, R70W	45 - 50	Site Characterization
Boreholes				
BH01	11/SW	T2S, R70W	45 - 50	Site Characterization
BH02	11/SW	T2S, R70W	45 - 50	Site Characterization
BH03	11/SW	T2S, R70W	45 - 50	Site Characterization
BH04	11/SW	T2S, R70W	45 - 50	Site Characterization
BH05	11/SW	T2S, R70W	45 - 50	Site Characterization
BH06	11/SW	T2S, R70W	45 - 50	Site Characterization
BH07	11/SW	T2S, R70W	45 - 50	Site Characterization
BH08	14/NW	T2S, R70W	45 - 50	Site Characterization
BH09	14/NW	T2S, R70W	45 - 50	Site Characterization
BH10	11/SW	T2S, R70W	45 - 50	Site Characterization
BH11	11/SW	T2S, R70W	45 - 50	Site Characterization
BH12	11/SW	T2S, R70W	45 - 50	Site Characterization
BH13	11/SW	T2S, R70W	45 - 50	Site Characterization
BH14	11/SW	T2S, R70W	45 - 50	Site Characterization
BH15	11/SW	T2S, R70W	45 - 50	Site Characterization
BH16	11/SW	T2S, R70W	45 - 50	Site Characterization
BH17	11/SW	T2S, R70W	45 - 50	Site Characterization
BH18	11/SW	T2S, R70W	45 - 50	Site Characterization
BH19	11/SW	T2S, R70W	45 - 50	Site Characterization
BH20	11/SW	T2S, R70W	45 - 50	Site Characterization
BH21	11/SW	T2S, R70W	45 - 50	Site Characterization
BH22	11/SW	T2S, R70W	45 - 50	Site Characterization
BH23	11/SW	T2S, R70W	45 - 50	Site Characterization
BH24	11/SE	T2S, R70W	45 - 50	Site Characterization
BH25	11/SE	T2S, R70W	45 - 50	Site Characterization
BH26	11/SW	T2S, R70W	45 - 50	Site Characterization
BH27	11/SE	T2S, R70W	45 - 50	Site Characterization
BH28	11/SE	T2S, R70W	45 - 50	Site Characterization
BH29	11/SE	T2S, R70W	45 - 50	Site Characterization
BH30	11/SE	T2S, R70W	45 - 50	Site Characterization
BH31	11/SE	T2S, R70W	45 - 50	Site Characterization
BH32	11/SE	T2S, R70W	45 - 50	Site Characterization
BH33	11/SE	T2S, R70W	45 - 50	Site Characterization

Proposed Site	Location Section/Qtr	Township Range	Estimated Depth (ft)	Purpose
BH34	11/SE	T2S, R70W	45 - 50	Site Characterization
BH35	11/SE	T2S, R70W	45 - 50	Site Characterization
BH36	11/SE	T2S, R70W	45 - 50	Site Characterization
BH37	11/SE	T2S, R70W	45 - 50	Site Characterization
BH38	11/SE	T2S, R70W	45 - 50	Site Characterization
BH39	11/SE	T2S, R70W	45 - 50	Site Characterization
BH40	11/SW	T2S, R70W	45 - 50	Site Characterization
BH41	11/SW	T2S, R70W	45 - 50	Site Characterization
BH42	11/SW	T2S, R70W	45 - 50	Site Characterization
BH43	11/SW	T2S, R70W	45 - 50	Site Characterization
BH44	11/SW	T2S, R70W	45 - 50	Site Characterization
BH45	11/SW	T2S, R70W	45 - 50	Site Characterization
BH46	11/SW	T2S, R70W	45 - 50	Site Characterization
BH47	11/SW	T2S, R70W	45 - 50	Site Characterization
BH48	11/SW	T2S, R70W	45 - 50	Site Characterization
BH49	11/SW	T2S, R70W	45 - 50	Site Characterization
BH50	11/SW	T2S, R70W	45 - 50	Site Characterization
BH51	11/SW	T2S, R70W	45 - 50	Site Characterization
BH52	11/SW	T2S, R70W	45 - 50	Site Characterization
BH53	11/SW	T2S, R70W	45 - 50	Site Characterization
BH54	11/SE	T2S, R70W	45 - 50	Site Characterization
Piezometers				
PZ01	11/SE	T2S, R70W	45 - 50	Site Characterization
PZ02	11/SE	T2S, R70W	45 - 50	Site Characterization
PZ03	11/SE	T2S, R70W	45 - 50	Site Characterization
PZ04	11/SE	T2S, R70W	45 - 50	Site Characterization
PZ05	11/SE	T2S, R70W	45 - 50	Site Characterization
PZ06	11/SE	T2S, R70W	45 - 50	Site Characterization