

MAR 10 1993

KDAI

ENVIRONMENTAL ENGINEERING
& LABORATORY SERVICES

10 March, 1993

Mr. Charles Schwer
Dept. of Environmental Conservation
Hazardous Materials Management Division
103 South Main Street / West Bldg.
Waterbury, Vermont 05671-0404

RE: Petroleum Contamination Investigation
Casella Waste Management, Rutland, VT (Site #92-1335)

Dear Mr. Schwer:

On behalf of Casella Waste Management, K-D Associates, Inc. submits the following information relative to the investigative work at the above mentioned site.

As an initial indicator of groundwater contamination, one groundwater monitoring well has been installed in the excavation area of the former heating oil UST (referred to as Tank 2 in tank pull site assessment). A 500 gallon above ground diesel tank has been placed in the location of the former vent and fill lines of Tank 2, and the area continues to be used as access for coal delivery, therefore the placement of the monitoring well was near the northwest corner of the cove in the building, within the backfill of the former tank (see diagram). Groundwater was encountered at a depth of ten feet and was sampled for analysis by EPA Methods 8020 and 418.1. The results indicate all parameters were below quantitation limits. (laboratory results enclosed).

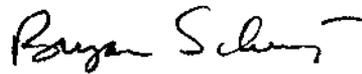
Soil samples were also screened for volatile organic compounds during the drilling using a PID and a bagged headspace technique on soil samples warmed to approximately room temperature. One sample representing soils below tank bottom depth (7 feet) measured <1ppm. All others were non-detectable.

According to the original tank pull site assessment, eight cubic yards of contaminated soil were stockpiled on site. The soil is located on the northwest corner of the property on an open and slightly elevated location, secured from public access. The soil appears to be securely encapsulated in polyethylene with little potential for leaching to any nearby water supplies. The outside temperature on the day of our investigation was near 20° F which inhibited the collection of samples for vapor readings representative of all areas and depths of the soil. Continuing with polyencapsulation appears to be the most appropriate treatment option for the contaminated soils. Casella Waste Management has indicated that the present location of the soil is one that is not normally used during other times of the year, assuring that the soil would remain undisturbed. The nearest receptor is the on site water supply well which is approximately 300 feet from the soil. Occasional vapor monitoring using a PID is proposed to determine when contamination levels are acceptable for permanent disposal.

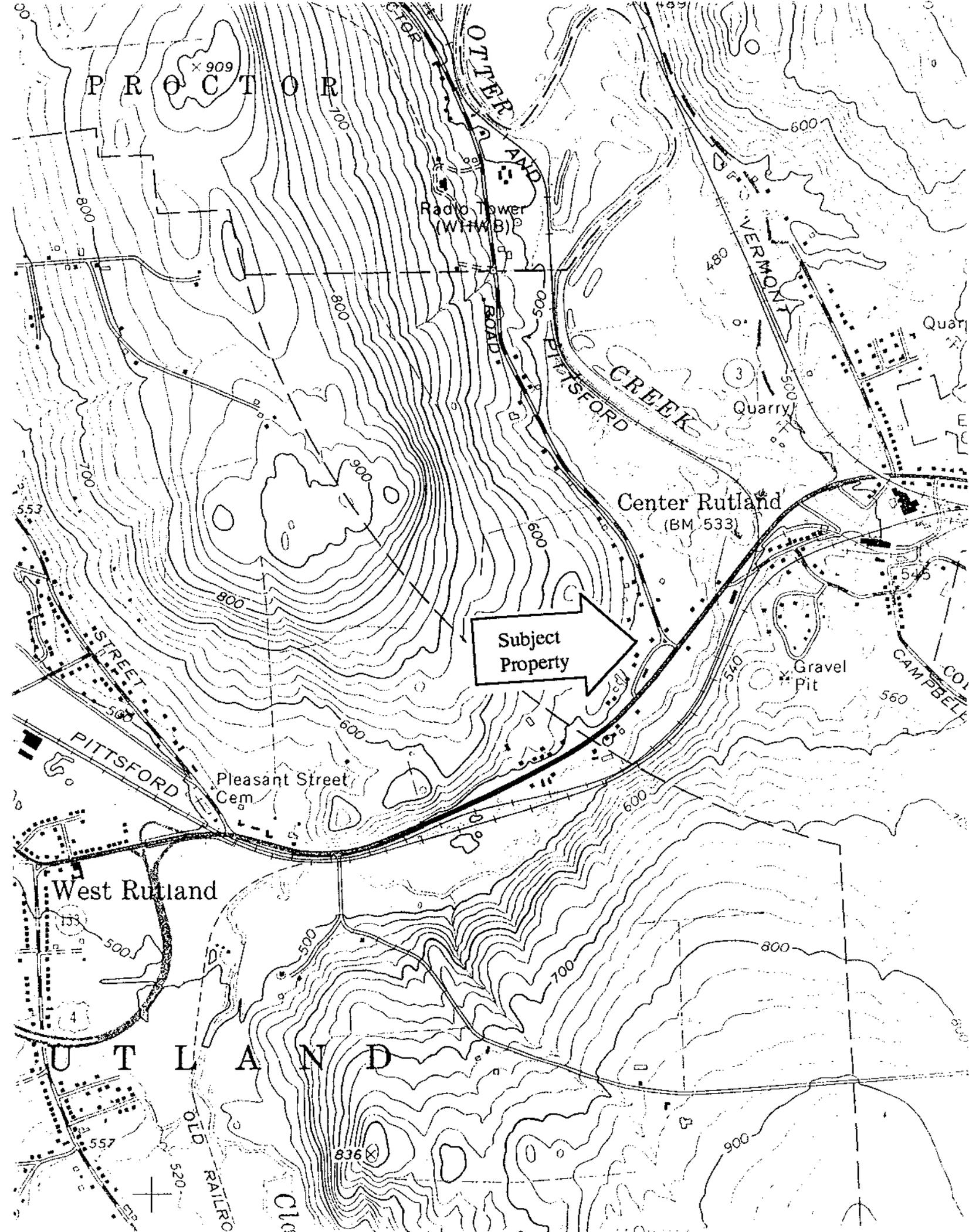
From the information gathered thus far, it would appear that the need for a treatment plan for the site is not necessary. The excavation of as much of the contaminated soil as practical at the time of the tank removal has likely limited any further risk of contamination to the groundwater. Also, the favorable results of the groundwater sample suggests that the impact to any nearby water wells or receptors would be minimal.

Enclosed please find a site map, well log and laboratory results. Should you have any questions or other concerns, please contact Mr. Jerry Hansen of Casella Waste Management, P.O. Box 866, Rutland, VT 05702 or our office.

Sincerely,


Bryan Schultz

cc: Jerry Hansen, Casella
file B118-003



P R O C T O R

Radio Tower
(W1W1B)

Center Rutland
(BM 533)

Subject
Property

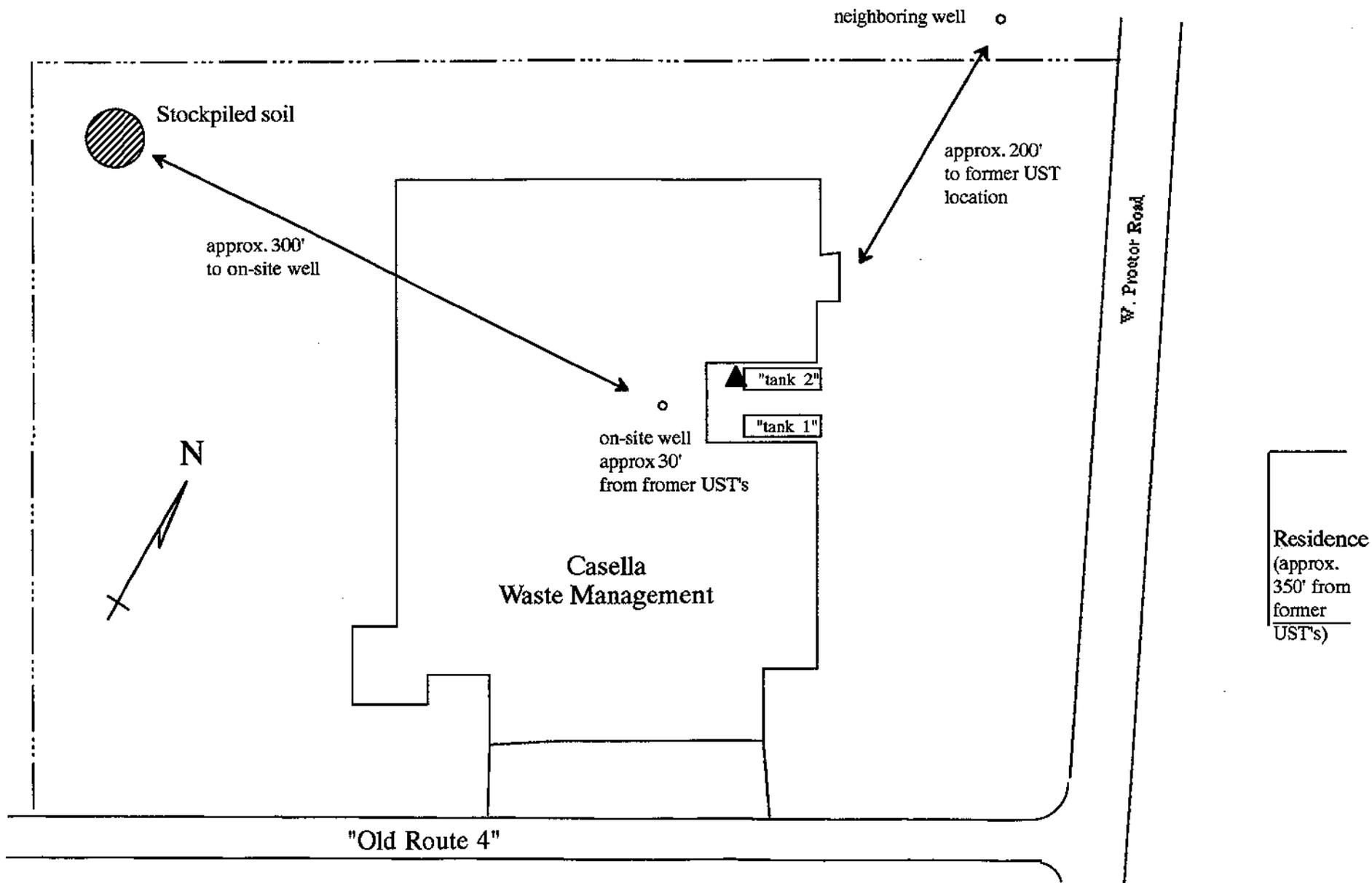
Pleasant Street
Cem

Gravel
Pit

West Rutland

R U T L A N D

OLD
RAILROAD



KDAI
 P.O. Box 4326
 Burlington, Vermont 05406-4326
 (802) 862-7490

site: Casella Waste Management
 Rutland, Vermont
 scale: approximated distances - not to scale

LEGEND

-  = Monitoring Well Location
-  = former UST location
-  = water supply well

Project Name Casella Waste Management

Casing type PVC

Location Rutland, VT

Casing Diameter 2"

Casing length 3'

KDAI Proj. No. B118-003

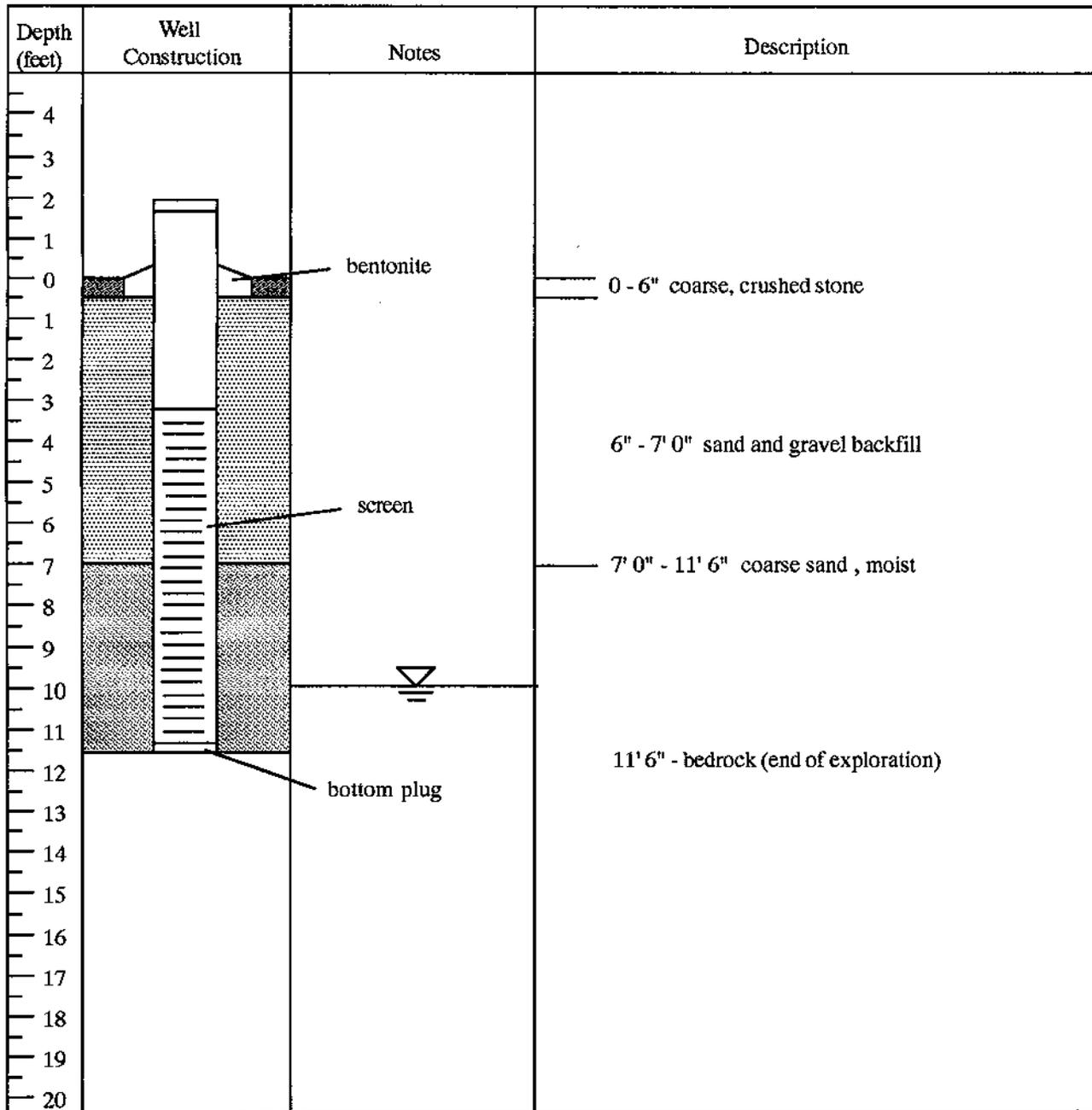
Screen type 0.01"

Drilling Log No. 1

Screen length 10'

Date 25 February, 1993

Total length below ground 11' 6"





IEA

An Aquarion Company

IEA LABORATORY RESULTS

Report Date: 03/09/93
Client: K-D Associates, Inc.
Project: B118-003

Received Date: 02/26/93
IEA Job Number: K103-008

Sample #	Client ID	Parameter	Results	Units	PQL	Date Analyzed
1	056-01	TPH-IR	BQL	mg/L	0.3	03/03/93

COMMENTS:

PQL = Practical Quantitation Limit
BQL = Below Quantitation Limit



Analysis Report: EPA Method 8020 (Volatile Aromatics)

Client:	K-D Associates, Inc.	IEA ID:	K103-008-02
Project:	B118-003	Sample:	056-02
Report Date:	03/05/93	Type:	Water
Collected:	02/25/93	Container:	VOA
Received:	02/26/93		
Analyzed:	03/02/93	Dilution	.
By:	GMT	Factor:	1

Number	Compound	PQL (ug/L)	Result (ug/L)
1	Benzene	1	BQL
2	Chlorobenzene	1	BQL
3	1,2-Dichlorobenzene	1	BQL
4	1,3-Dichlorobenzene	1	BQL
5	1,4-Dichlorobenzene	1	BQL
6	Ethylbenzene	1	BQL
7	Toluene	1	BQL
8	Xylenes (total)	1	BQL
9	Methyl-t-butylether	1	BQL

Surrogate Standard Recovery:

1,4-Difluorobenzene 81 %

Comments:

BQL = Below quantitation limit

PQL = Practical quantitation limit.

Quantitation limits for this sample are obtained by multiplying the PQL by the dilution factor.