O'CONNOR ASSOCIATES ENVIRONMENTAL INC.
639 – 5TH AVENUE S.W., SUITE 1000, CALGARY, ALBERTA T2P 0M9 TELEPHONE (403) 294-4200 FAX (403) 294-4240 WATTS (800) 661-8141

TRANSMITTAL LETTER

To: Alberta Environment - Prairie Region
2nd Floor, Provincial Building
200 - 5th Avenue South
Lethbridge, AB T1J 4L1

Date: February 19, 2001

Attention: Mr. Jamie A. Curran, B.Sc.
Contaminated Sites Coordinator

Job No.: 10-5846

Sent by: O'Connor Associates Environmental Inc.

☐ Mail ☐ Under Separate Cover

☐ Hand Carried ☐ Enclosed

☑ Courier ☐ Picked Up

QUANTITY	ITEM	DESCRIPTION
1	Confidentiality Letter	**AENV Approval No. 82402** Barons Bulk Turbo #2520 235 Main Street Barons, Alberta Shell Location No. C42520
1	O'Connor Associates Report	
3	Seacor Environmental Reports	
Remarks: As requested by Mr. Randall Warren of Shell Canada Products.		

Rob Micklethwaite

RECEIVED
APR 27 2001
AEP/ENVIRONMENTAL SERVICE
PRAIRIE - LETHBRIDGE

cc: Mr. Randall Warren, Shell Canada Products (1) w/o attach.

March 6, 2001

Shell Canada Products

400 - 4th Avenue S.W
P.O. Box 100, Station M
Calgary, Alberta T2P 2H5
TEL (403) 691-3111

Alberta Environment
Environmental Service
Prairie Region
2nd Floor, Provincial Building
200 - 5th Avenue South
Lethbridge, Alberta
T1J 4L1

Attention: Mr. Jamie A. Curran, B.Sc.
Contaminated Sites Coordinator - Prairie Region

Dear Mr. Curran:

Re: **AENV Approval No. 82402**
Barons Bulk Turbo #2520
235 Main Street
Barons, Alberta
Location No. C42520

Enclosed for your review is one (1) monitoring report dated May 23, 2000 prepared by O'Connor Associates Environmental Inc.; three (3) reports dated September 30, 1997, July 24, 1998 and November 1999 prepared by Seacor Environmental Engineering Inc. for the referenced site. Shell Canada Products (Shell) is suppling these reports in response to the letter dated January 22, 2001 prepared by Alberta Environment (AENV) for this site.

We are providing these reports on a confidential basis with the intent that you rely on the information contained in these reports in order to determine whether Shell Canada Products ("Shell") is fulfilling (has fulfilled) its obligations. However, we wish to point out that these reports are prepared exclusively for Shell and are not intended to be relied upon by any third party.

It is Shell's position that these reports are confidential and disclosure of the information to third parties could reasonably be expected to prejudice Shell's competitive position and interfere significantly with Shell's contractual or other negotiations resulting in undue loss to Shell.

Should you have any questions reviewing the enclosed reports, please do not hesitate to contact me at 403-216-5558

Yours truly,

Randall Warren
Environmental Engineer

Attach.

OAEA Confirmation Fax Ref # : SF8148

O'CONNOR ASSOCIATES ENVIRONMENTAL INC.

1000, 639 - 5th AVENUE SW, CALGARY, ALBERTA T2P 0M9 TEL. (403) 294-4200 FAX: (403) 294-4240

FIELD DATA REPORT

CLIENT: SHELL CANADA PRODUCTS LIMITED JOB NUMBER: 10-5846

ATTN: MR. ROBERT HARRIOTT, P.Geol

cc

PROJECT: TURBO BARONS BULK STATION

LOCATION: BARONS, AB LOCATION NO: C42520

MONITORING DATE: 2000/05/12

SITE DESCRIPTION (see attached site plan)

Total no. piezometers installed 5
Total no. piezometers existing on this date 5
Total no. piezometers monitored on this date 5

BH6, BH96-4 - dry

PROJECT STATUS
GROUNDWATER

Average piezometric surface elevation outside tank backfill
Could not be calculated with available data

Average groundwater elevation within tank backfill
Could not be calculated with available data

Depth to groundwater table outside tank backfill
Could not be calculated with available data — Previous min depth _____ m at _____ ; Previous max depth _____ m at _____

Depth to groundwater within tank backfill
No piezometers located in the tank backfill — Previous min depth _____ m at _____ ; Previous max depth _____ m at _____

Principal direction of groundwater flow indeterminate

LIQUID PLUME

No. of piezometers with liquid product: 0
No. of piezometers without liquid product 3

Greatest apparent thickness None

Product has not been detected to date

VAPOUR PLUME

Vapour Concentrations	Piezometers	MHs & CBs
≤2% LEL	5	0
>2% LEL to 5% LEL	0	0
>5% LEL to 10% LEL	0	0
>10% LEL to 75% LEL	0	0
>75% LEL to 100% LEL	0	0
>100% LEL	0	0

Tank Backfill vapour concentrations
Maximum ____ ppm in . Minimum ____ ppm in

SAMPLING AND CHEMICAL ANALYSIS

Location/Type _____
Analyzed For: _____

SITE MONITORING SCHEDULE

Unless otherwise requested,
Regular (every 52 weeks)
Next Monitoring Date: WEEK ENDING 2001/05/12

Date: 2000/08/01

DATA REPORT TYPE : [X]-BH MONITORING [ ]-VES [ ]-BAILING

Note to reader: Field data presented in this document have been automatically scanned for anomalous site conditions. Unless such conditions were detected, the data presented here are those entered in the field and have not been reviewed in detail by the Project Manager.
Questions or concerns regarding these data should be directed to R.K. MICKLETHWAITE or R B. AMERO ☎(403) 294-4200

EQUIPMENT ON-SITE

Type	Location	Status

LIQUID RECOVERY

Date	Recovery Unit	Location	Flow Rate (L/min)	Recovery (L)

Date	Purging/Bailing	Location	Volume Recovered (L)

Volume recovered between _____ and _____ : _____ L
Total volume recovered since : 0 L

VAPOUR EXTRACTION

Date	Extraction Unit	Location	Estimated Extraction Rate (L/day)

Volume extracted between _____ and _____ : _____ L
Total volume extracted since : 0 L

TOTAL PRODUCT REMOVED TO DATE: 0 L
(includes pumping, bailing and vapour extraction)

ANOMALOUS CONDITIONS IDENTIFIED

- None

COMMENTS

- a site sensitivity assessment was completed by Seacor in 1998
- the applicable environmental criteria are the draft 1994 Level II risk management criteria for vapour inhalation through fine grained soils
- during this initial site visit only S-BH96-1, S-BH96-4, S-BH96-8, S-BH96-14 and S-BH6 were located and subsequently monitored, all other pre-existing monitoring wells were unable to be located.
- subsurface vapour concentrations were all <1% LEL

To file C42520.

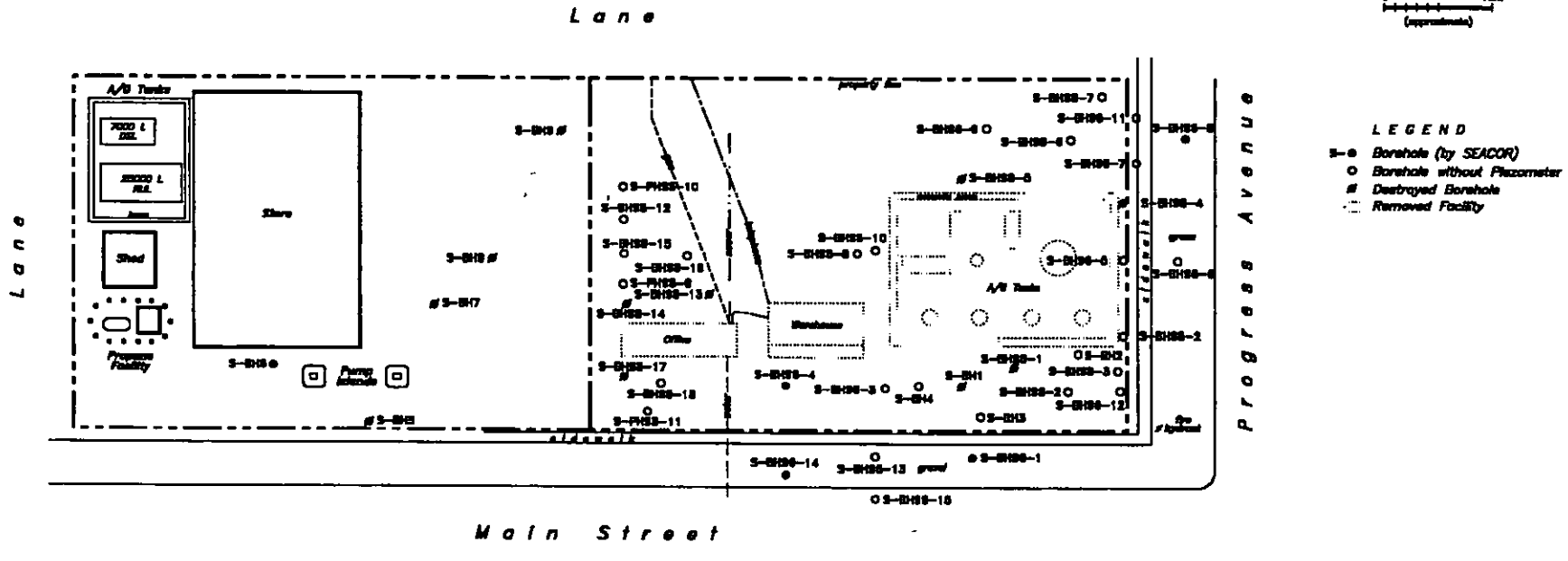
TABLE 1.1
SUBSURFACE VAPOUR CONCENTRATIONS
(% LEL)

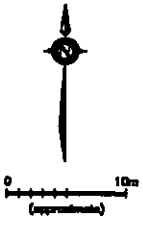
DATE	BH6	BH96-1	BH96-4	BH96-8	BH96-14
00/05/12	<1	<1	ND	<1	<1

ND - not detected (<5 ppm)

NOTES: Vapour concentrations less than 5% LEL were measured in ppm but reported in % LEL.
All reported values are rounded to the nearest whole number.

SIC





LEGEND

- S-● Borehole (by SEACOR)
- ○ Borehole without Piezometer
- # Destroyed Borehole
- Removed Facility

Based on "SEACOR" dwg. no. 31-6349 dated 1998/08/11.

Site Plan Barons - C42520	O'CONNOR ASSOCIATES	
	JOB NO.: 10-5846	DATE: 2000/07/25
	DRAWN BY: LPA	DWG. NO.: 1.1