



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 Previous min depth _____ m at _____
 with available data Previous max depth _____ m at _____

 Depth to groundwater within tank backfill
 No piezometers located in Previous min depth _____ m at _____
 the tank backfill 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	<u>5</u>	<u>0</u>
>2% LEL to 5% LEL	<u>0</u>	<u>0</u>
>5% LEL to 10% LEL	<u>0</u>	<u>0</u>
>10% LEL to 75% LEL	<u>0</u>	<u>0</u>
>75% LEL to 100% LEL	<u>0</u>	<u>0</u>
>100% LEL	<u>0</u>	<u>0</u>

 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: ☒ 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
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LIQUID RECOVERY

Date	Recovery Unit	Location	Flow Rate (L/min)	Recovery (L)
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Date	Purging/Bailing	Location	Volume Recovered (L)
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 Volume recovered between _____ and _____ : _____ L
 Total volume recovered since : 0 L

VAPOUR EXTRACTION

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

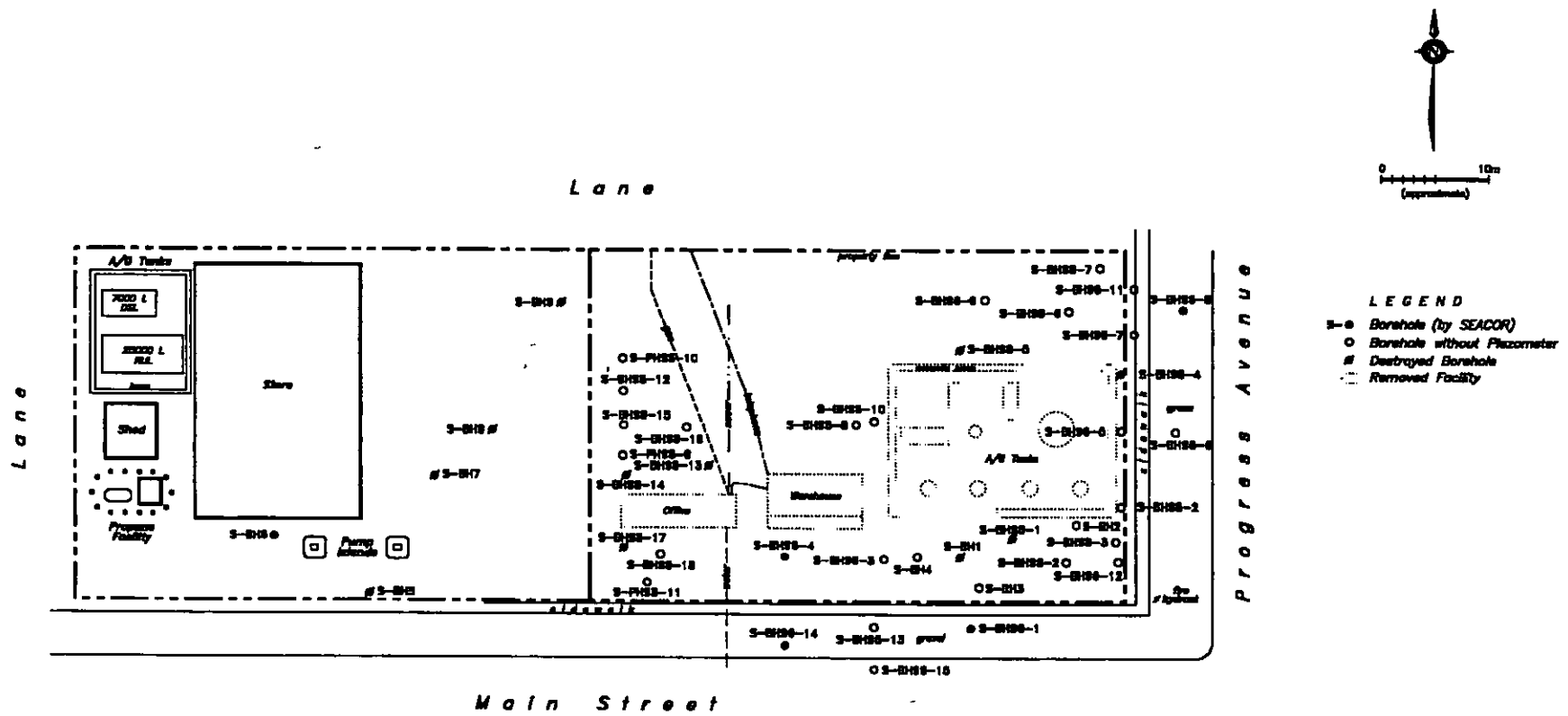
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C42520.*

TABLE 1.1
SUBSURFACE VAPOUR CONCENTRATIONS
(% LEL)

<u>DATE</u>	<u>BH6</u>	<u>BH96-1</u>	<u>BH96-4</u>	<u>BH96-8</u>	<u>BH96-14</u>
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.



Based on "SEACOR" map no. 31-0348 dated 1999/05/11.

Site Plan
Barons - C42520

O'CONNOR ASSOCIATES

JOB NO.: 10-5846	DATE: 2000/07/25
DRAWN BY: LPA	DWG. NO.: 1.1