

Greater Vancouver Regional District

4330 Kingsway, Burnaby, BC, Canada

Greater Vancouver Regional District • Greater Vancouver Water District
Greater Vancouver Sewerage and Drainage District • Greater Vancouver Housing Corporation

Policy & Planning Department
Tel: 604-432-6375 Fax: 604-436-6375

AMENDING DOCUMENT

Under the provisions of the
Greater Vancouver Regional District Air Quality Management Bylaw No. 937, 1999

AIR QUALITY MANAGEMENT PERMIT NUMBER GVA0619
issued December 19, 1997

in the name of United Grain Growers Ltd.

located at the North Foot of Vernon Drive, Vancouver, BC

is amended, subject to the terms and conditions listed below:

Effective Date: JUL 09 2007

Face Page:

The company name is changed from United Grain Growers Ltd. to Alliance Grain Terminal Ltd

The location address is changed from North Foot of Vernon Drive, Vancouver, BC to 1155 Stewart Street, Vancouver, BC.

Schedule H, Record of Permit Issuance: Add new text under the following headings:

Date	Action	Sections Affected
JUL 09 2007	Amended	Face Page

All other terms and conditions prescribed in Permit GVA0619 remain unchanged.

Amendment Date: JUL 09 2007

R.H. ROBB, DISTRICT DIRECTOR



Greater Vancouver Regional District
4330 Kingsway, Burnaby, British Columbia, Canada V5H 4G8

General
Telephone (604) 432-6200
Fax (604) 432-6250

Air Quality Department - Tel (604) 436-6700 Fax (604) 436-6707

PERMIT

(Under the provisions of the GVRD Air Quality Management Bylaw No. 937, 1999)

UNITED GRAIN GROWERS LTD.
IS AUTHORIZED TO DISCHARGE AIR CONTAMINANTS
FROM A GRAIN TERMINAL
LOCATED AT THE NORTH FOOT OF VERNON DRIVE, VANCOUVER, B.C.

This permit has been issued under the terms and conditions
prescribed in the attached Schedules A, B, C, D, E, F, G & H
for emission sources and works existing or planned on March 31, 2000.


ASSISTANT DISTRICT DIRECTOR

PERMIT NUMBER GVA0619

INDEX OF SCHEDULES

Schedule A

Schedule B

Schedule C Emission Monitoring

Schedule D

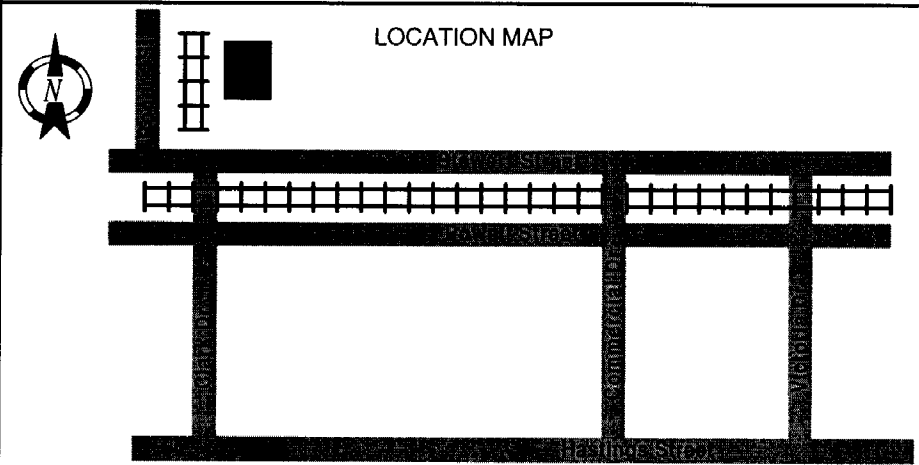
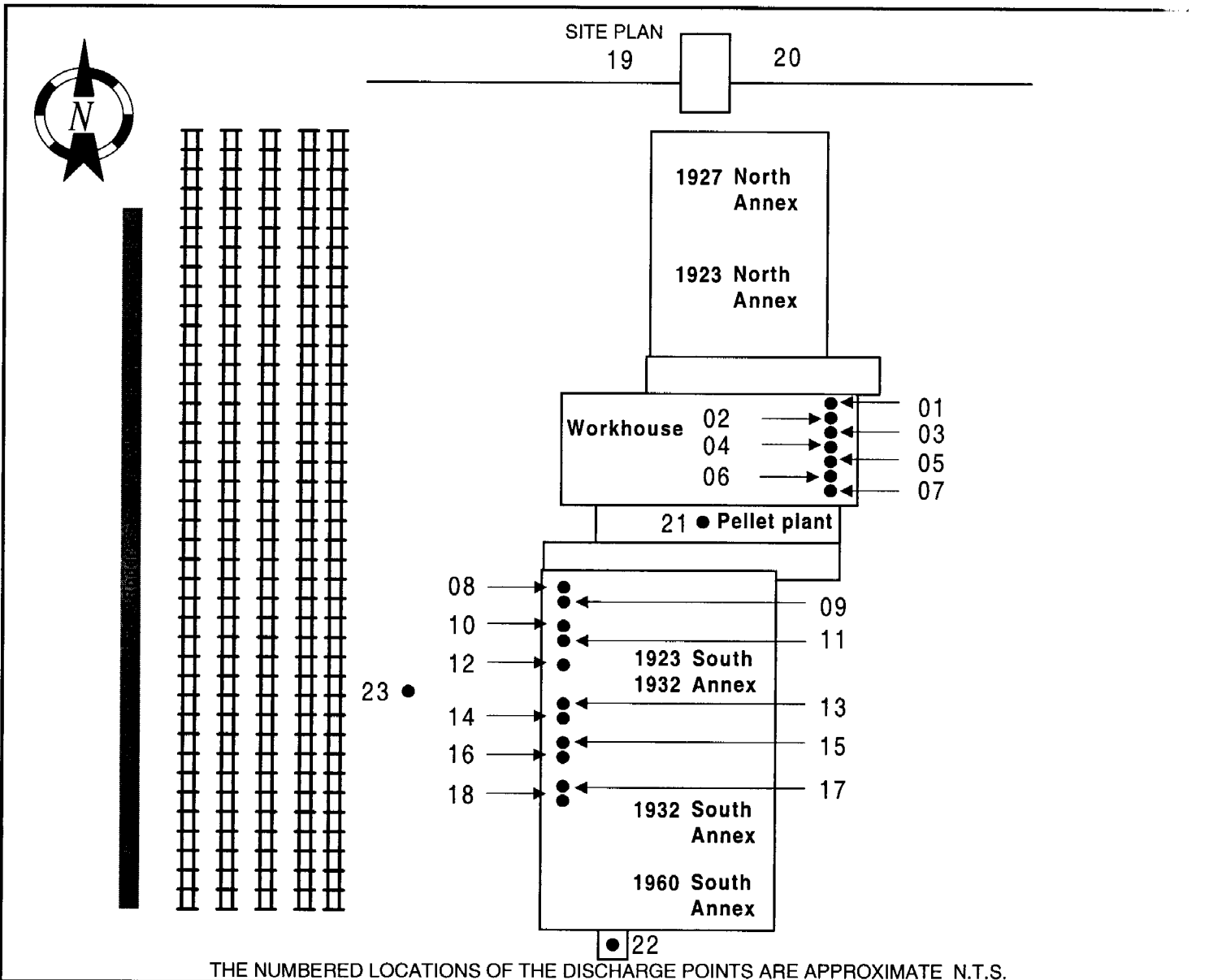
Schedule E

Schedule F

Schedule G

Schedule H

SCHEDULE A - PAGE 1
to PERMIT GVA0619



March 31, 2000

Robert S. Smith

ASSISTANT DISTRICT DIRECTOR

Schedule A to Permit No. GVA0619

SCHEDULE B - PAGE 1
to PERMIT GVA0619

A. OBJECTIVES AND AMENDMENTS

Ambient air quality guidelines and objectives are prescribed under provisions of applicable legislation. If the level of air quality as prescribed by these criteria is exceeded, the conditions of this Permit may be revised, in order that the desired air quality can be maintained. This Permit may also be amended for other reasons, as authorized by applicable legislation.

B. MAINTENANCE AND OPERATION OF WORKS

Works and procedures, which this Permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The Permittee shall regularly inspect and maintain all such works in good repair.

C. EMERGENCY PROCEDURES

An emergency or other condition may prevent the continuous utilization of the above authorized works and procedures, or may result in a discharge of air contaminants which is not authorized by this Permit. If such a situation occurs, the Permittee shall report the circumstances of this event to the Greater Vancouver Regional District, Air Quality Department at 436-6777 (24 hours), at the first available opportunity.

No discharge that has bypassed control works is authorized unless the District Director's approval has been obtained. In the event of an emergency, bypassing facilities may be used for such periods as are necessary to effect a shutdown of the related processes.

D. AIR CONDITIONING, HEATING AND VENTILATION SYSTEMS

Air contaminants discharged from any natural gas-fired air conditioning, heating or ventilation systems for buildings located at the discharge site are not specified in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants. Notwithstanding the above, the District Director may at his discretion stipulate limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE B - PAGE 2
to PERMIT GVA0619

E. GENERAL SITE RESTRICTIONS

No air contaminant(s) from any single source, or combination of sources shall pass the boundary of the property, described in Section I of this Schedule B, such that the District Director determines that air pollution has occurred.

F. INTERNAL COMBUSTION ENGINES

Air contaminants discharged from any natural gas, propane, gasoline, diesel, or other fossil fuel fired internal combustion engines operated at the discharge site may not be specifically authorized in this Permit. These works shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel and to minimize emissions such that the requirements of Section E of this Schedule B are not exceeded. The District Director may at his discretion stipulate further limits for emission of contaminants from these sources in the Permit at a future date under provisions of the Bylaw.

G. ENGINEERING UNITS

The engineering units specified in this Permit are in accordance with the Metric System of measure. Approximate equivalent values for the British System can be calculated using the following conversion factors.

$\text{mg/m}^3 \times 0.000437$	=	gr/cf
$\text{m}^3/\text{min} \times 35.3$	=	cf/min
$\text{kg/m}^3 \times 0.0624$	=	lbs/cf
$\text{kg/L} \times 10.0$	=	lbs/gal
$\text{mg/m}^3 \times 24.0/\text{M}$	=	ppm (by volume)
$\text{GJ/h} \times 0.9478$	=	MMBTU/h

where

m^3	=	cubic metre	min	=	minute
mg	=	milligram	cf	=	cubic feet
s	=	second	lb	=	pound
kg	=	kilogram	gal	=	gallon
L	=	litre	M	=	molecular weight
gr	=	grain	ppm	=	parts per million
GJ	=	GigaJoule	MMBTU	=	Million British Thermal Unit
			h	=	hour

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE B - PAGE 3
to PERMIT GVA0619

H. STANDARD CONDITIONS AND DEFINITIONS

Except where otherwise indicated, the following standard conditions and definitions apply to this Permit.

1. The Restrictions in the attached Schedules are maximum limits.
2. Gaseous volumes are corrected to dry conditions of 20° Celsius & 760mm Hg.
3. Particulate matter from combustion sources is corrected to 12% Carbon Dioxide.
4. Opacity is measured at the point of maximum density, nearest the discharge point.
5. Opacity measurements exclude the effect of condensed, uncombined water droplets.
6. Definitions in the Waste Management Act and GVRD Air Quality Management Bylaw No. 937, 1999 apply to terminology used in this Permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook for the year 1999.
8. Any production, storage, transportation, handling, treatment, processing or ownership of a special waste must comply with the requirements of the Waste Management Act, Special Waste Regulation.

I. DESCRIPTION OF DISCHARGE SITE

The land from which the air contaminants are discharged is described as "Lot 1, Block 1, Plan 11, 111, Subdivision A, District Lot 182; and Lots M, L, J and a portion of Lot I, Plan 11, 110, lying in front of District Lot 182; and Foreshore of Burrard Inlet shown on Explanatory Plan 1775 and described in Certificate of Title 33848K; and Portion of the bed of Burrard Inlet fronting the above lots."

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE C - PAGE 1
to PERMIT GVA0619

This Schedule describes emission monitoring, sampling and reporting requirements.

The Permittee shall conduct the following monitoring and sampling program on the discharges and submit the results to the District Director. The need for increased or decreased monitoring may be reviewed periodically by the District Director.

EMISSION NUMBER	DUE DATE(S)	REQUIREMENT(S)
General	March 31, 2001 and annually thereafter	Written report detailing the types and amounts of principal products produced and principal raw materials used in the preceding calendar year.
General	March 31, 2001 and annually thereafter	Written report detailing the types and amounts of fuel burned in the preceding calendar year.
General	March 31, 2001 and annually thereafter	Written report indicating inspection frequency, bag condition and action taken or proposed to solve any problems detected for the baghouses described in Schedule G of this Permit.

Ambient air sampling and monitoring shall be undertaken by the Permittee, when required by the District Director.

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE D - PAGE 1
to PERMIT GVA0619

The authorized emission sources and discharge points located approximately as shown on Schedule A are:

EMISSION NUMBER	EMISSION SOURCE	DISCHARGE POINT
01	Ventilation system serving the shipping gallery conveyor belts, grain trips and the north basement conveyor belts	Baghouse exhaust (filter B)
02	Ventilation system serving rotary cleaners 2A and 2B, cylindrical cleaner 3A and their accompanying aspirators.	Baghouse exhaust (filter C4)
03	Ventilation system serving rotary cleaners 3A & 3B, cylindrical cleaner 3B and their accompanying aspirators.	Baghouse exhaust (filter C3)
04	Ventilation system serving cylindrical cleaners 1B, 2A & 2B and their accompanying aspirators.	Baghouse exhaust (Filter C2)
05	Ventilation system serving rotary cleaners 1A & 1B, cylindrical cleaner 1A and their accompanying aspirators.	Baghouse exhaust (filter C1)
06	Ventilation system serving the leg transports and screening & tailings drag conveyors in the workhouse basement.	Baghouse exhaust (filter D)
07	Ventilation system serving the wheat reclaim system area and the filter refuse drag conveyors.	Baghouse exhaust (filter A)
08	Ventilation system serving the drag conveyors to the annex bin tops.	Baghouse exhaust (filter E)
09	Ventilation system serving the trackshed hopper pit #3, #1 receiving dumper pit, conveyors #1, #15 & #16, and the boxcar loadout spout	Baghouse exhaust (filter F)

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE D - PAGE 2
to PERMIT GVA0619

EMISSION NUMBER	EMISSION SOURCE	DISCHARGE POINT
10	Ventilation system serving the top workhouse receiving garners, #5 cleaning garner, workhouse bins and #3 shipper scale	Baghouse exhaust (filter G)
11	Ventilation system serving 5 cleaners in the oilseed cleaning area	Baghouse exhaust (filter H1)
12	Ventilation system serving 2 cleaners in the oilseed cleaning area	Baghouse exhaust (Filter H2)
13	Ventilation system serving conveyors and legs in the south annex basement	Baghouse exhaust (filter SD1)
14	Ventilation system serving the shipping area including conveyors 27 & 28, legs 24 & 25, the shipping turn head and shipping scales.	Baghouse exhaust (filter SD2)
15	Ventilation system serving the oil seed cleaning complex.	Baghouse exhaust (filter SD3)
16	Ventilation system serving the hopper pit, receiving conveyor C2 and leg 28	Baghouse exhaust (filter SD4)
17	Ventilation system serving four barley cleaners alongside the workhouse main floor	Baghouse exhaust (filter SD5)
18	Ventilation system serving various screw conveyors and transfer points in the south annex associated with the dryer system and truck loadout	Baghouse exhaust (filter SD6)

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE D - PAGE 3
to PERMIT GVA0619

EMISSION NUMBER	EMISSION SOURCE	DISCHARGE POINT
19	#1 Ship Loading of grain products at the west shiploader	Ship's hold
20	#2 Ship Loading of grain products at the east shiploader	Ship's hold
21	Pellet plant (grain screenings)	Baghouse exhaust
22	Grain drying operation	Grain dryer vents
23	Pellet plant boiler	Stack

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

GREATER VANCOUVER REGIONAL DISTRICT

SCHEDULE E - PAGE 1
to PERMIT GVA0619

The authorized rates of discharge for the emission sources described in Schedule D are:

EMISSION NUMBER	MAXIMUM AUTHORIZED RATE OF DISCHARGE			NOTES & ADDITIONAL REQUIREMENTS
	FLOW m ³ /min	DURATION hours/day	FREQUENCY days/week	
01	567	24	7	
02	510	24	7	
03	510	24	7	
04	510	24	7	
05	510	24	7	
06	623	24	7	
07	850	24	7	
08	708	24	7	
09	737	24	7	
10	1275	24	7	
11	652	24	7	
12	454	24	7	
13	765	24	7	
14	708	24	7	
15	813	24	7	
16	708	24	7	

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE E - PAGE 2
to PERMIT GVA0619

EMISSION NUMBER	MAXIMUM AUTHORIZED RATE OF DISCHARGE			NOTES & ADDITIONAL REQUIREMENTS
	FLOW m ³ /min	DURATION hours/day	FREQUENCY days/week	
17	963	24	7	
18	734	24	7	
19	See notes	24	7	The rate of discharge is that resulting from the displaced air from loading operations.
20	See notes	24	7	The rate of discharge is that resulting from the displaced air from loading operations.
21	244	24	7	
22	3766	24	7	
23	6	8	5	

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE F - PAGE 1
to PERMIT GVA0619

The authorized maximum discharge criteria for emission sources described in Schedule D are:

EMISSION NUMBER	PARAMETER	RESTRICTION	NOTES
22	Combustion products	See notes	Typical products of combustion of natural gas to a maximum firing rate of 22.16 GJ/h.
01-18 & 21	Opacity	10 percent	
19, 20 & 22	Opacity	20 percent	May be exceeded for a total of 3 min/hour.
01-18 & 21	Particulate matter	20 mg/m ³	
19, 20 & 22	Particulate matter	See notes	None past the plant boundary such that the District Director determines that air pollution has occurred.
23	Combustion Products		Typical products of natural gas combustion at a maximum firing rate of 1.41 GJ/h.

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE G - PAGE 1
to PERMIT GVA0619

The authorized works and procedures to control the discharge of air contaminants from the emission sources described in Schedule D are indicated below. The District Director may require that further works be installed, if the existing works, in his opinion, do not provide an acceptable level of emission control. New works or alterations to existing works must be approved, in principle, by the District Director.

Where the District Director has specified that additional works are required, the maximum discharge criteria described in Schedule F of this Permit are applicable as specified by the Completion Date(s) listed below. Prior to the specified date(s) the existing control works and procedures must be maintained in good operating condition and operated in a manner to minimize emissions.

EMISSION NUMBER	COMPLETION DATE	DESCRIPTION OF WORKS/PROCEDURES
01	Completed	Lugar baghouse "B" and related appurtenances together with good operating practices.
02	Completed	Lugar baghouse "C-4" and related appurtenances together with good operating practices.
03	Completed	Lugar baghouse "C-3" and related appurtenances together with good operating practices.
04	Completed	Lugar baghouse "C-2" and related appurtenances together with good operating practices.
05	Completed	Lugar baghouse "C-1" and related appurtenances together with good operating practices.
06	Completed	Lugar baghouse "D" and related appurtenances together with good operating practices.
07	Completed	Lugar baghouse "A" and related appurtenances together with good operating practices.
08	Completed	Lugar baghouse "E" and related appurtenances together with good operating practices.
09	Completed	Lugar baghouse "F" and related appurtenances together with good operating practices.


March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE G - PAGE 2
to PERMIT GVA0619

EMISSION NUMBER	COMPLETION DATE	DESCRIPTION OF WORKS/PROCEDURES
10	Completed	Lugar baghouse "G" and related appurtenances together with good operating practices.
11	Completed	Lugar baghouse "H-1" and related appurtenances together with good operating practices.
12	Completed	Lugar baghouse "H-2" and related appurtenances together with good operating practices.
13	Completed	Simon-Day baghouse No. 1 and related appurtenances together with good operating practices.
14	Completed	Simon-Day baghouse No.2 and related appurtenances together with good operating practices.
15	Completed	Simon-Day baghouse No.3 and related appurtenances together with good operating practices.
16	Completed	Simon-Day baghouse No.4 and related appurtenances together with good operating practices.
17	Completed	Simon-Day baghouse No.5 and related appurtenances together with good operating practices.
18	Completed	Simon-Day baghouse No.6 and related appurtenances together with good operating practices.
19	Completed	Good operating practices including the optimization of drop heights to minimize emissions.
20	Completed	Good operating practices including the optimization of drop heights to minimize emissions.

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

SCHEDULE G - PAGE 3
to PERMIT GVA0619

EMISSION NUMBER	COMPLETION DATE	DESCRIPTION OF WORKS/PROCEDURES
21	Completed	Simon-Day baghouse and related appurtenances together with good operating practices.
22	Completed	Firing of the dryer with natural gas, using good combustion practices and operating procedures.
23	Completed	Firing of the boiler with natural gas, using good combustion practices and operating procedures.

March 31, 2000


ASSISTANT DISTRICT DIRECTOR

GREATER VANCOUVER REGIONAL DISTRICT

~~~~~  
SCHEDULE H - PAGE 1  
to PERMIT GVA0619

RECORD OF PERMIT ISSUANCE

| DATE              | ACTION   | SECTIONS AFFECTED                       |
|-------------------|----------|-----------------------------------------|
| December 19, 1997 | Issuance | Face, Schedules A, B, C, D, E, F, G & H |
| March 31, 2000    | Amended  | Face, Schedules A, B, C, D, E, F, G & H |

March 31, 2000

  
ASSISTANT DISTRICT DIRECTOR