MODIFICATION OF LAND APPLICATION PERMIT
APPENDIX "C" TO PERMIT No. LA-000050-02

PERMITTEE NAME: THE AMALGAMATED SUGAR COMPANY (TASCO)

EFFECTIVE DATE
OF THIS MODIFICATION: NOVEMBER 1, 2000

Complete Description of Modification:

I. Schedule A is hereby amended to add the following condition:

9. The North and South Schow acreages are permitted for condensate wastewater-land treatment during the 2000-2001 non-growing season according to the limits set forth in the table below. No limit in this table shall be exceeded.

Acreage/Site Loading Limits[1]	South Schow	North Schow
Acres	65	155
WW[2] Loading-NGS[3] (ac-in/ac-yr)[4]	5.8	7.5
WW NVDS[5] Loading (lb/ac-yr)	642	642
NGS COD[6] Loading (lb/ac-d)	25	25
Nitrogen Loading (lb/ac-yr)	150	150

[1] The values in the table represent maximum limits of various constituents that may be applied.
[2] WW = wastewater
[3] NGS – non-growing season; defined as November 1 through March 31.
[4] A WW hydraulic loading rate limit per acre is given in the event the permittee does not wish to utilize the entire acreage of a permitted hydraulic management unit. So long as the permittee stays below the total WW loading limit, WW may be applied to select portions of hydraulic management units so long as the WW hydraulic loading rate (as-in/ac-yr) is not exceeded.
[5] NVDS = non-volatile dissolved solids; this is a rough measure of inorganic TDS (salts). It may be calculated by subtracting volatile dissolved solids (VDS) from total dissolved solids (TDS).
[6] NGS COD loading limit of 25 lb/ac-d is based on a 151 day NGS.

a) Buffer zones of 100 feet between dwellings and the North and South Schow acreages shall be maintained if spray irrigation is used. A zero foot distance is allowed for non spray-irrigated acreage.

b) Monitoring of the North and South Schow acreages: The facility shall monitor the operation and efficiency of wastewater-land application and report data and calculations as per Schedule B of the permit.

c) The following additional Monitoring for Non-Growing Season Application on North and South Schow.

Item	Monitoring Frequency	Monitoring point	Type of monitoring	Parameters
Soils	November and March[1]	Soil monitoring units: Schow South (MU-00509) Schow North (MU-00510)	Composite samples[2]	E.C., SAR, K, NO_3-N, TKN, NH_4-N, P-total, Fe-DTPA, Mn-DTPA, moisture
Ground Water	Monthly	Wells 114, 115, 116, 117, 118, and 119	Visual; grab sample	Groundwater elevation, NO_3-N, TDS, NH_4-N, TKN

[1] The non-growing season is defined as November 1 through March 31.

[2] For each monitoring unit twenty (20) subsamples will be collected at 0-12, 12-24, 24-36, 36-48, 48-60 inches depth or until groundwater is encountered, whichever is shallower. For each depth, the 20 samples will be composited into one sample. Thus, a total of 5 samples will be collected per soil monitoring unit.

II. Appendix A of the permit is hereby modified as follows:

1) The following Environmental Monitoring Serial Numbers are hereby added.

Ground Water Monitoring Wells	
GW-005063	MW-114
GW-005064	MW-115
GW-005065	MW-116
GW-005066	MW-117
GW-005067	MW-118
GW-006068	MW-119
Hydraulic Management Units	
MU-005009	South Schow
MU-005010	North Schow
Soil Monitoring Units	
SU-005008	Gillette Offsite
SU-005009	South Schow
SU-005010	North Schow
SU-005011	Seedahl

2. The attached two site maps of the North and South Schow Acreages are hereby added to Appendix "A".

The modification described above and referred to as Appendix "C" is hereby approved. This appendix to the permit is incorporated into and constitutes part of Permit No. LA-000050-02. This appendix must be attached to the permit. The permit is incomplete and unlawful under the Wastewater-Land Application Permit Regulations without this appendix attached.

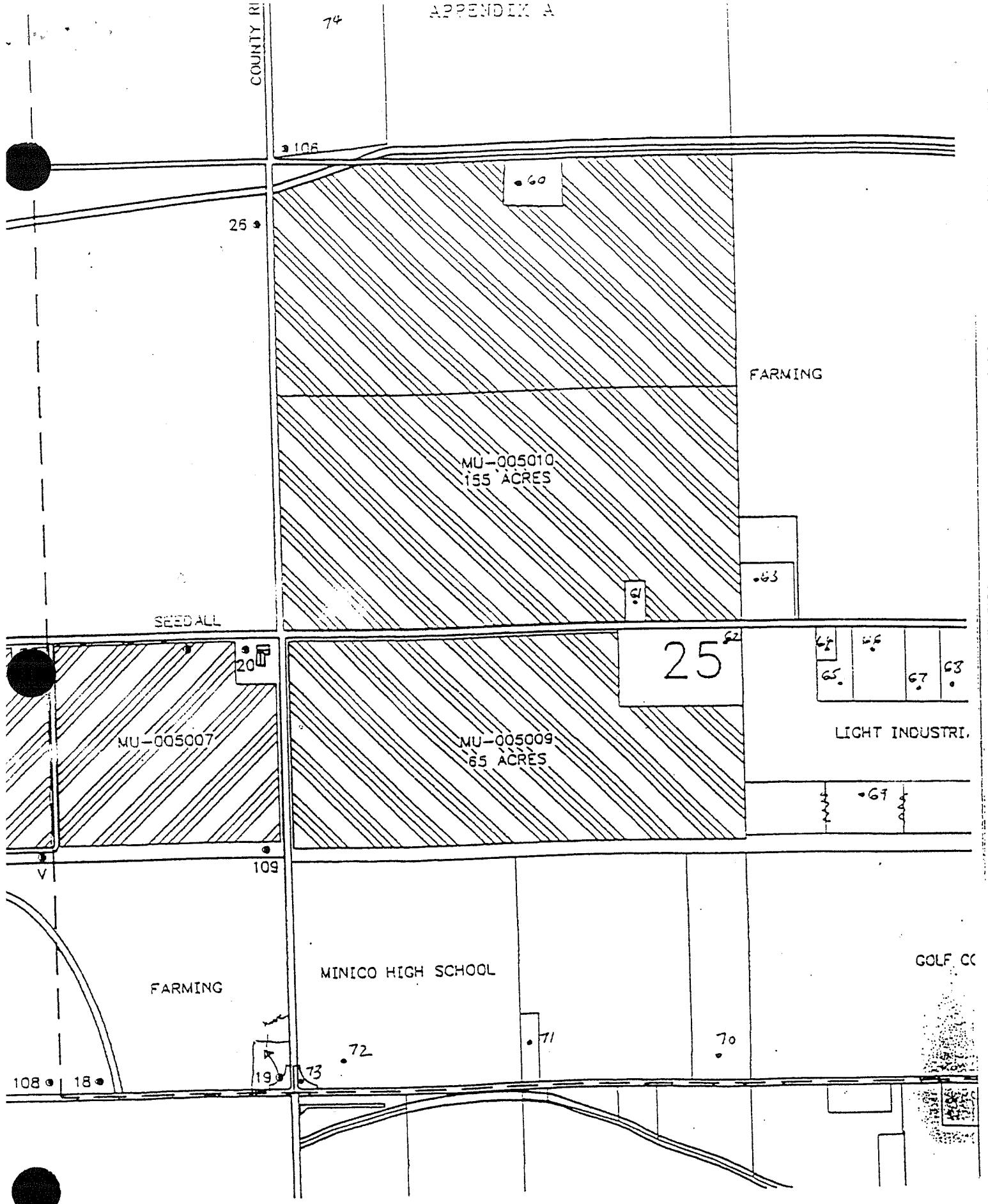
Signed,

11/6/00

Doug Howard, Regional Administrator
Idaho Department of Environmental Quality
Twin Falls Regional Office

Date

APPENDIX A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MU-005010
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SEEDALL
25
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68
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MU-005007
MU-005009
65 ACRES
LIGHT INDUSTRI.
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FARMING
MINICO HIGH SCHOOL
GOLF CC
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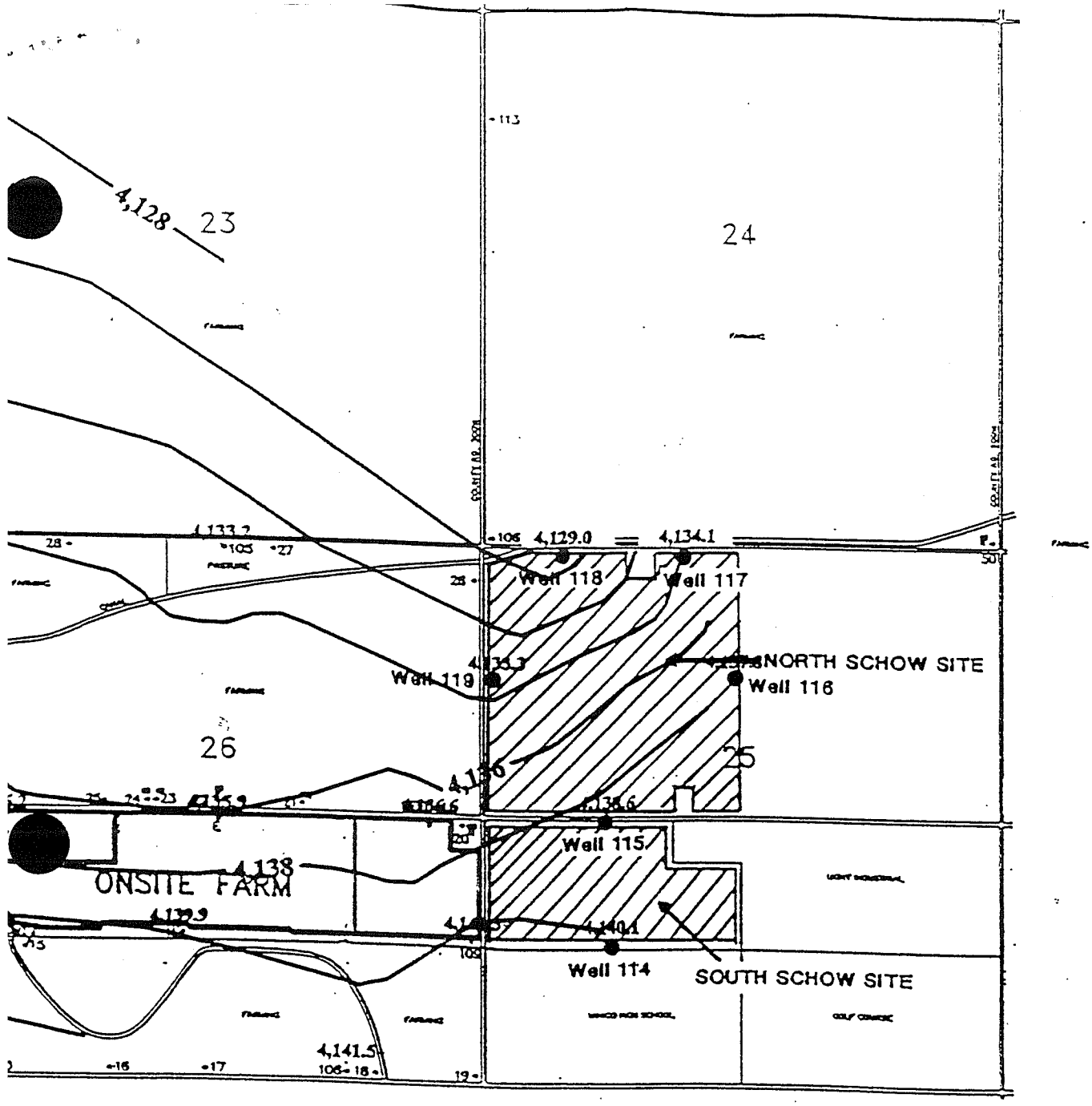

Monitoring Well Location and
Groundwater Contour Map
November 3, 1999 Water Levels

Figure 1

REV. #	DATE	BY	DESCRIPTION
2	11/4/99	CB	ADDED DOMESTIC WELLS & HOMES
1	08-06 96	K.A.T.	DWG. TITLE CHANGED, N.M. #'S ADDED DOMESTIC & MONITORING WELLS ADDED
0	01-03 96	K.A.T.	ISSUED FOR CONSTRUCTION

REVISIONS

THE AMALGAMATED SUGAR CO.

FACTORY MINI-CASSIA

Wastewater Land Application
Farms and Factory Grounds

REFERENCE DRAWINGS

THE AMALGAMATED SUGAR COMPANY, OGDEN, UTAH

SCALE 1"=700'
DATE 07-31-96
DR. BY K.A.T.
ACCOUNT NUMBER 187
DRAWING NUMBER 5-643-G1
REV. 2