

APPENDIX A
EFFLUENT, ON-SITE AND OFF-SITE MONITORING PROGRAM
FOR IMPLEMENTATION DURING 1986

EFFLUENT AND ON-SITE MONITORING PROGRAM
FOR IMPLEMENTATION DURING 1986

<u>SAMPLE LOCATION AND I. D. CODE</u>	<u>MONITORING/REPORTING REQUIREMENTS</u>	<u>SAMPLING TYPE/MEDIUM</u>	<u>COLLECTION FREQUENCY</u>	<u>TOTAL ANNUAL SAMPLES</u>	<u>ANALYSES PERFORMED/ COMPOSITE FREQUENCY</u>
Main plant ventilation exhaust stack ANSTACK	Release point for airborne radioactive exhaust <u>Required by:</u> DOE 5484.1, Tech Spec 4.1.1 <u>Reported:</u> Internal Monthly Summary Annual Effluent Report Annual Environmental Report	Continuous off- line air particulate monitor ^a	Continuous measurement of fixed filter, replaced weekly	104	Real time alpha and beta monitoring Filters for gross alpha beta, gamma isotopic upon collection, H-3 weekly.
		Continuous off- line air particulate and iodine sampler ^a	Weekly collection of filter paper, charcoal absorber, and desiccant	156	Quarterly composites: filters for Sr-90, Pu/ isotopic, Am-241 gamma isotopic; charcoal for I-129
Cement Solidi- fication (CSS) system ventilation exhaust. ANCSSTK	Release point for airborne radioactive exhaust <u>Required by:</u> DOE 5484.1, Tech Spec 4.1.1 <u>Reported:</u> Internal Monthly Summary Annual Effluent Report Annual Environmental Report	Continuous off- line air particulate monitor ^a	Continuous measurement of fixed filter, replaced weekly	104	Real time alpha and beta monitoring Filters for gross alpha beta, gamma isotopic upon collection
			Weekly collection of filter paper, charcoal absorber	104	Quarterly composites: filters for Sr-90, Pu/ isotopic, Am-241 gamma isotopic; charcoal for I-129
Lagoon 3 discharge weir WNSPO01	Primary point of liquid effluent batch release <u>Required by:</u> DOE 5484.1 Tech Spec 4.2 SPDES <u>Reported:</u> NYSDEC Monthly DMR Annual Effluent Report Annual Environmental Report	Grab Liquid	Daily, during Lagoon 3 discharge	40-80	Daily: Gross beta, conductivity, pH. Eve sixth daily sample: gross alpha/ beta, H-3, Sr-90, gamma isotopic. Weighted monthly composite of daily samples: gross alpha/ beta, H-3, Sr-90, I-129 gamma isotopic. Quarterly weighted composite of daily samples: U isotopic, Pu isotopic, Am-241
		Composite Liquid	Twice during discharge, near start, and near end.	8-10	Two 24 hour composites for Al, NH ₃ , As, BOD-5, Fe, Zn, pH, suspended solids;
		Grab Liquid	Twice during discharge, same as composite.	8-10	Settleable solids, pH, cyanide, oil and greas
		Composite Liquid	Annually	1	Annually, a 24 hour composite for: Cd, Cr, Cu, Pb, Ni, Se

^a Isokinetic sampling probes placed at 231' (plant elevation) within the main stack, at the 168' level within the CSS vent stack.

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Erdman Brook at security fence <u>WNSP006</u>	Combined facility liquid discharge <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Monthly Summary Annual Environmental Report NH ₃ & Fe deleted from schedule	Continuous proportional sample liquid	Monthly* (Composite of biweekly collections)	12	Gross alpha/beta, H-3, pH, conductivity Quarterly composite: gamma isotopic, Sr-90, I-129
On-site ground water (wells) <u>WVW80-series</u> <u>WVW82-series</u> <u>WVW83-series</u>	Ground water monitoring wells around site facilities <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Annual Environmental Report	Grab liquid	Quarterly* during 1st year, semiannual/ annual thereafter (see Table 9)	132	Gross alpha/beta, H-3, gamma isotopic, pH, conductivity, chloride Fe, Mn, Na, sulfate, phenols, nitrate, TOC, TOH

*Samples to be split (shared with NYSDOH)

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Sanitary Waste Discharge WNSP007	Liquid effluent point for sanitary and utility plant combined discharge <u>Required by:</u> DOE 5484.1 SPDES	24 hr composite liquid	3/month	36	Gross alpha/beta, pH, H-3, settleable solids, suspended solids, NH ₃ , BOD-5, Fe
	<u>Reported:</u> NYSDEC Monthly DMR Internal Monthly Summary Annual Effluent Report Annual Environmental Report	Grab	Annually	1	Chloroform
N.E. Swamp drainage WNSWAMP	Site surface drainage <u>Required by:</u> DOE 5484.1	Grab liquid	Monthly*	24	Gross alpha/beta, H-3, pH
North Swamp drainage WNSW7A	<u>Reported:</u> Annual Effluent Report				

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French Drain WNSPO08	Drains subsurface water from LLWT lagoon area	Grab liquid	3/month	36	pH, conductivity, BOD-5 Fe
			Monthly	12	Gross alpha/beta, H-3
	Reported: NYSDEC Monthly DMR Annual Effluent Report		Annually	1	Ag. Zn
Franks Creek E of NYSLWB WNFRC67	Drains NYS Low Level Waste Burial area	Grab liquid	Monthly	12	Gross alpha/beta, H-3, pH
			Weekly*		
	Required by: DOE 5484.1				
	Reported: Internal review NYSERDA				
Erdman Brook N of burial areas WNERB53	Drains NYS and WVDP disposal areas	Grab liquid	Weekly*	52	Gross alpha/beta, H-3 pH
	Required by: DOE 5484.1				
	Reported: Internal Review NYSERDA				

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Ditch N of WVDP NDA & LLWB WNNDADR	Drains WVDP disposal area <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Review	Composite continuous liquid	Weekly	52	Weekly gamma isotopic, pH, conductivity, monthly: gross alpha/beta, quarterly composite: Sr-90, I-129
Condensate and Cooling Water Ditch WNSP005	Combined drainage from facility yard area <u>Required by:</u> DOE 5484.1 SPDES <u>Reported:</u> Internal Review	Grab liquid	Monthly	12	Gross alpha/beta, H-3 pH
Cooling Tower Basin WNC00LW	Cools plant utility steam system water <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Review	Grab liquid	Monthly	12	Gross alpha/beta, H-3 pH

*Samples to be split (shared with NYSDOH)

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(7) On-site standing water (ponds not receiving effluent) WNSTAW-series	Water within vicinity of plant airborne or ground water effluents <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Review	Grab liquid	Annually	7	Gross alpha/beta, H-3, pH, conductivity, chloride, Fe, Mn, Na, phenols, sulfate
Site potable water WDRNKW	Source of water within site perimeter <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Review	Grab liquid	Monthly Annually	12 2	Gross alpha/beta, H-3, pH, conductivity Toxic metals, pesticide chemical pollutants

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Cattaraugus Creek at Felton Bridge location WFFELBR	Unrestricted surface waters receiving plant effluents <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Monthly Summary Annual Environmental Report	Flow weighted continuous liquid	Weekly*	52	Weekly for gross alpha/beta, H-3, pH; Monthly composite for gamma isotopic and Sr-

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Buttermilk Creek, just upstream of Cattaraugus Creek confluence at Thomas Corners Road WFBCTCB	Restricted surface waters receiving plant effluents <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Annual Environmental Report	Composite continuous liquid	Biweekly	26	Monthly for gross alpha/beta, H-3, pH; Quarterly composite for gamma isotopic and Sr-90
Buttermilk Creek control location near Fox Valley WFBCSKG	Restricted surface water background <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Internal Monthly Summary Annual Environmental Report	Composite continuous liquid	Biweekly	26	Monthly for gross alpha/beta, H-3; Quarterly composite for gamma isotopic and SR-90

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Wells near WVDP outside WNYNSC Perimeter	Drinking supply ground water near facility.	Grab liquid	Biennially	10 (year of collection)	Gross alpha/beta, H-3, gamma isotopic, pH, conductivity
3.0 Km WNW WFWEL01	<u>Required by:</u> DOE 5484.1				
1.5 Km NW WFWEL02	<u>Reported:</u> Annual Environmental Report				
4.0 Km NW WFWEL03					
3.0 Km NW WFWEL04					
2.5 Km SW WFWEL05					
11.0 Km SSW WFWEL06					
4.0 Km NNE WFWEL07					
2.5 Km ENE WFWEL08					
3.0 Km SE WFWEL09					
7.0 Km N WFWEL10					

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3.0 Km SSE at Fox Valley AFFXVRD	Particulate air samples around WYNSC perimeter	Continuous air particulate	Weekly	780	Weekly (each filter) gross alpha/beta, H-3 (on 3 stations)
3.7 Km NNW at Thomas Corners Road AFTCORD	Required by: DOE 5484.1 Reported: Annual Environmental Report	Continuous H-3, charcoal†			Quarterly: (Each station) composite filters for Sr-90, gamma isotopic; I-129 (on 3 stations)
2.0 Km NE of Route 24† AFRT240*	*Monthly Internal Summary				
1.5 Km NW on Rock Springs Road (added in 1984) AFRSPRD*†					
29 Km S at Great Valley (background added in 1984) AFGRVAL*†					
7 Km at Springville (added in 1984) AFSPRVL					
6 Km SSE at West Valley (added in 1984) AFWEVAL					
50 Km W at Dunkirk AFDNKRK					
2.3 Km SW on Dutch Hill Road AFBOEHN					

† see sample location

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2.5 Km SW AFDHPOP	Fallout particulate and fluid collection around WNYNCS perimeter	Integrating liquid	Monthly	48	Gross alpha/beta, H-3, pH
3.0 Km SSE AFFXPOP	<u>Required by:</u> DOE 5484.1				
3.7 Km NNW AFTCFOP	<u>Reported:</u> Annual Environmental Report				
2.0 Km NE AF24POP					
(9) Surface soil (at each air particulate sampler)	Long-term fallout accumulation <u>Required by:</u> DOE 5484.1	Surface plug composite soil	Triennially*	10 (year of collection)	Gamma isotopic, Sr-90, Pu, Am-241
26 Km SSW at Little Valley SF-series	<u>Reported:</u> Annual Environmental Report				

*Samples to be split (shared with NYSDOH)

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Buttermilk Creek at Thomas Corners Road SFTCSER†	Deposition in sediment downstream of facility effluents	Grab stream sediment	Semiannually * (split two only)	10	Gross alpha/beta, isotopic gamma and Sr-90
			Annually†	2	U/Pu isotopic, Am-241
Buttermilk Creek at Fox Valley Road (back- ground)*† SFBCEED	Required by: DOE 5484.1 Reported: Annual Environmental Report				
Cattaraugus Creek at Felton Bridge SFOCSED					
Cattaraugus Creek at Springville Dam* SFSDEED					
Cattaraugus Creek at Bigelow Bridge (background) SFBISED					

† see specific sample location

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Cattaraugus Creek downstream of the Buttermilk Creek confluence BFFCATC	Fish in waters downstream of facility effluents <u>Required by:</u> DOE 5484.1	Individual collection, biological	Semiannually*	60 (each sample point is 10 fish)	Isotopic gamma and Sr-90 in edible portions
Cattaraugus Creek downstream of Springville Dam BFFCATD	<u>Reported:</u> Annual Environmental Report				
Control sample from nearby stream not affected by WWDP (7 Km or more upstream of site effluent point) BFFCTRL					

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Dairy farm, 3.8* Km NNW BFMREED	Milk from animals foraging around facility perimeter	Grab biological	Monthly (BFMREED, BFMCOBO, BFMCTLS, BFMCTLN)	48	Gamma isotopic, Sr-90 H-3 and I-129 on annual samples and quarterly composites of monthly samples
Dairy farm, 2.5* Km ENE BFMZIMH	Required by: DOE 5484.1		Annual	3	
Dairy farm, 1.9 Km WNW BFMCOBO	Reported: Annual Environmental Report				
Control location, 30 Km N and 25 Km S BFMCTLN, BFMCTLS					
Dairy farm 3 Km SE of site BFMWIDR					
Dairy farm 3.5 Km SSW BFMHAUR					

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(3) Nearby downwind location BFBNEAR	Fruit and vegetables grown near facility perimeter <u>Required by:</u> DOE 5484.1	Grab Biological	Annually,* at harvest	6	Gamma isotopic and Sr-90 analyses of edible portions, H-3 in free moisture
(3) Remote location (16 Km or more from facility) BFBCTEL	<u>Reported:</u> Annual Environmental Report				
Beef animal from nearby farm in downwind direction BFBNEAR	Meat-Beef foraging near facility perimeter <u>Required by:</u> DOE 5484.1	Grab biological	Semiannually*	4	Gamma isotopic analysis of meat.
Beef animal from control location (16 Km or more from facility) BFBCTEL	<u>Reported:</u> Annual Environmental Report				

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In vicinity of the site BFDWEAR	Meat-Deer foraging near facility perimeter <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Annual Environmental Report	Individual collection biological	Annually, during hunting season* During year as available*	2	Gamma isotopic analyses of meat, Sr-90 in meat
Control animal (16 Km or more from facility) BFDCTRL					

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Thermoluminescent Dosimetry (TLD) (16) at each of 16 compass sectors, at nearest accessible perimeter point (2) at corners of NYS LLW burial area (5) at security fence around site. Rock Springs Road 500 m NNW of plant. 1500 m NW (nearest downwind receptor) "5 Points" landfill, 19 Km SW (background) Great Valley, 29 Km S (background) Springville 7 Km N West Valley 6 Km SSE Dunkirk, 50 Km W (background) DFTLD-series	Direct Radiation around facility <u>Required by:</u> DOE 5484.1 <u>Reported:</u> Annual Environmental Report	Integrating LiF TLD	Quarterly* (data shared from overlap locations)	116	Quarterly gamma dose

*Samples to be split (shared with NYSDOH)
†DFTLD Series

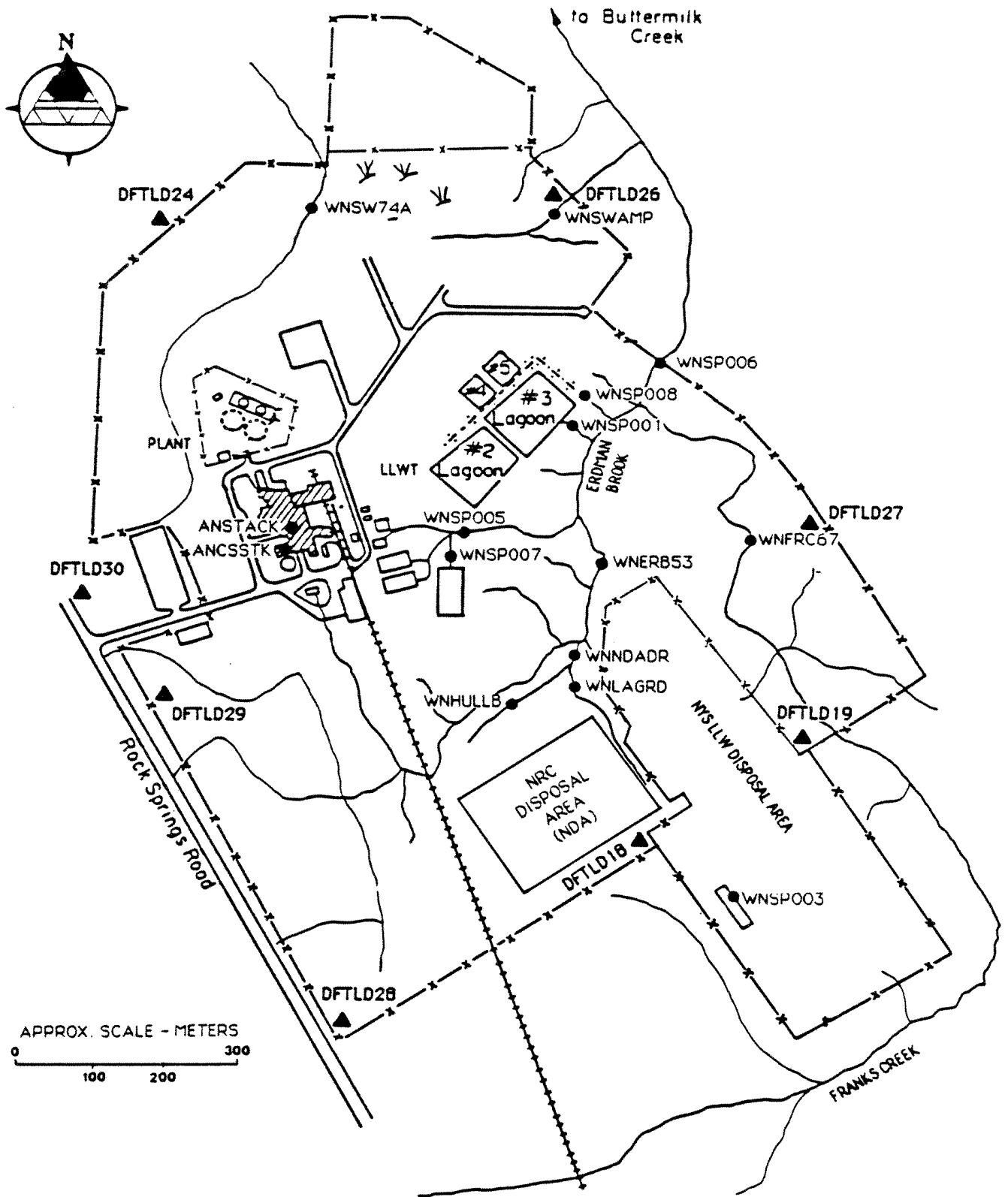
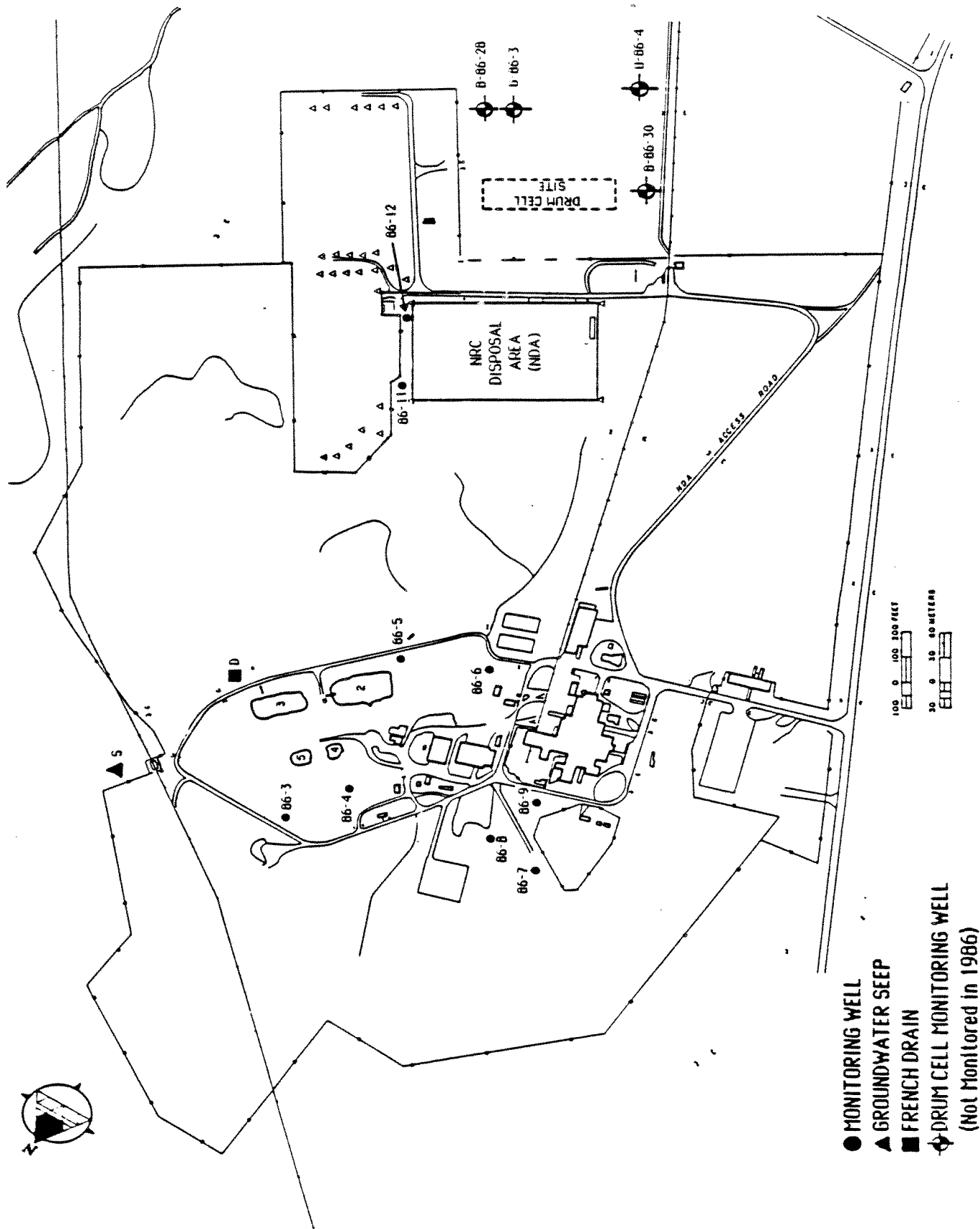


FIGURE A-1
Location of
Radiological Monitoring Points On-site



- MONITORING WELL
- ▲ GROUNDWATER SEEP
- FRENCH DRAIN
- ⊕ DRUM CELL MONITORING WELL
(Not Monitored in 1986)

FIGURE A-2
Location of Groundwater
Monitoring Stations
Added in 1986

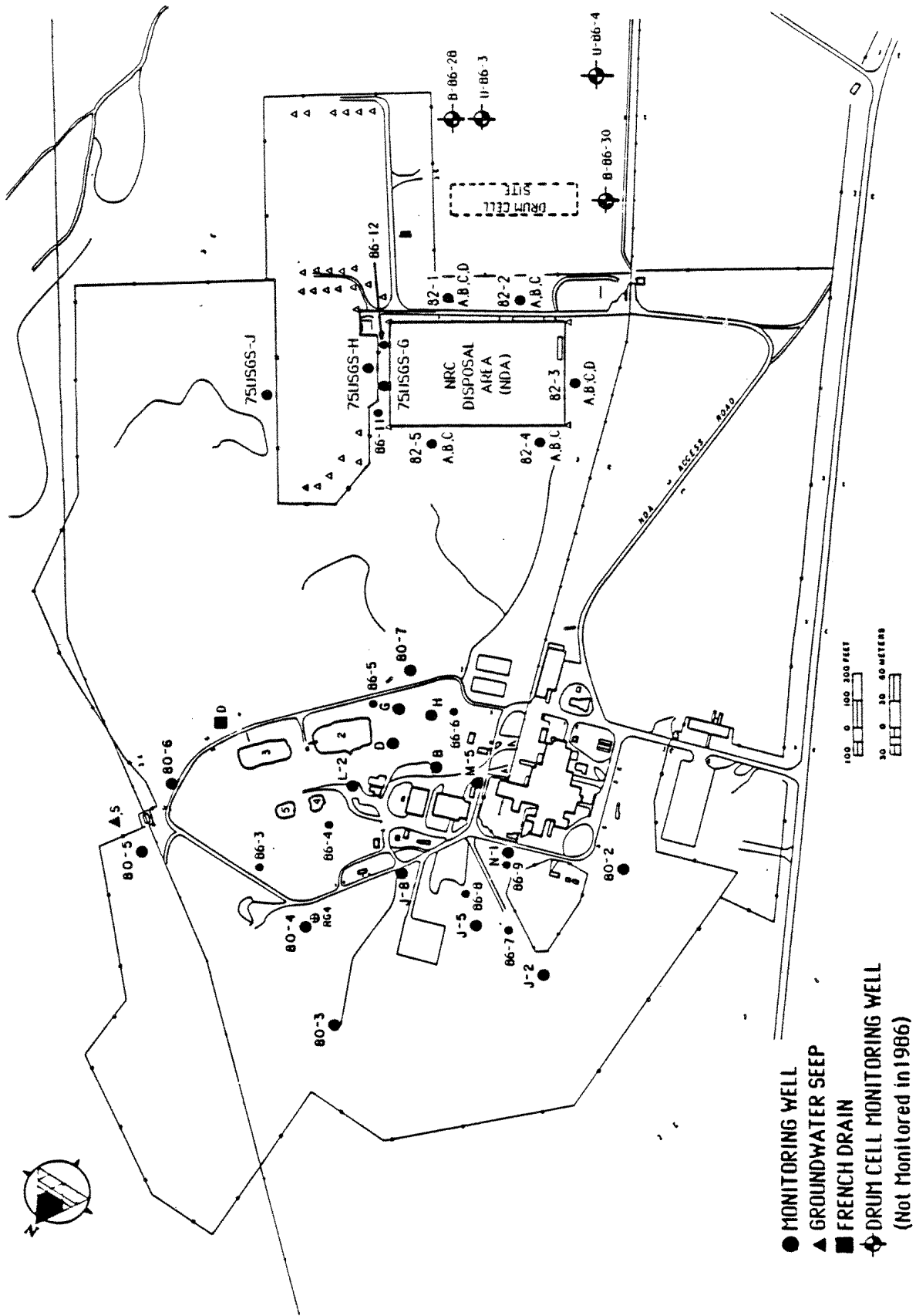


FIGURE A-3
Location of Groundwater Stations
Monitored in 1986

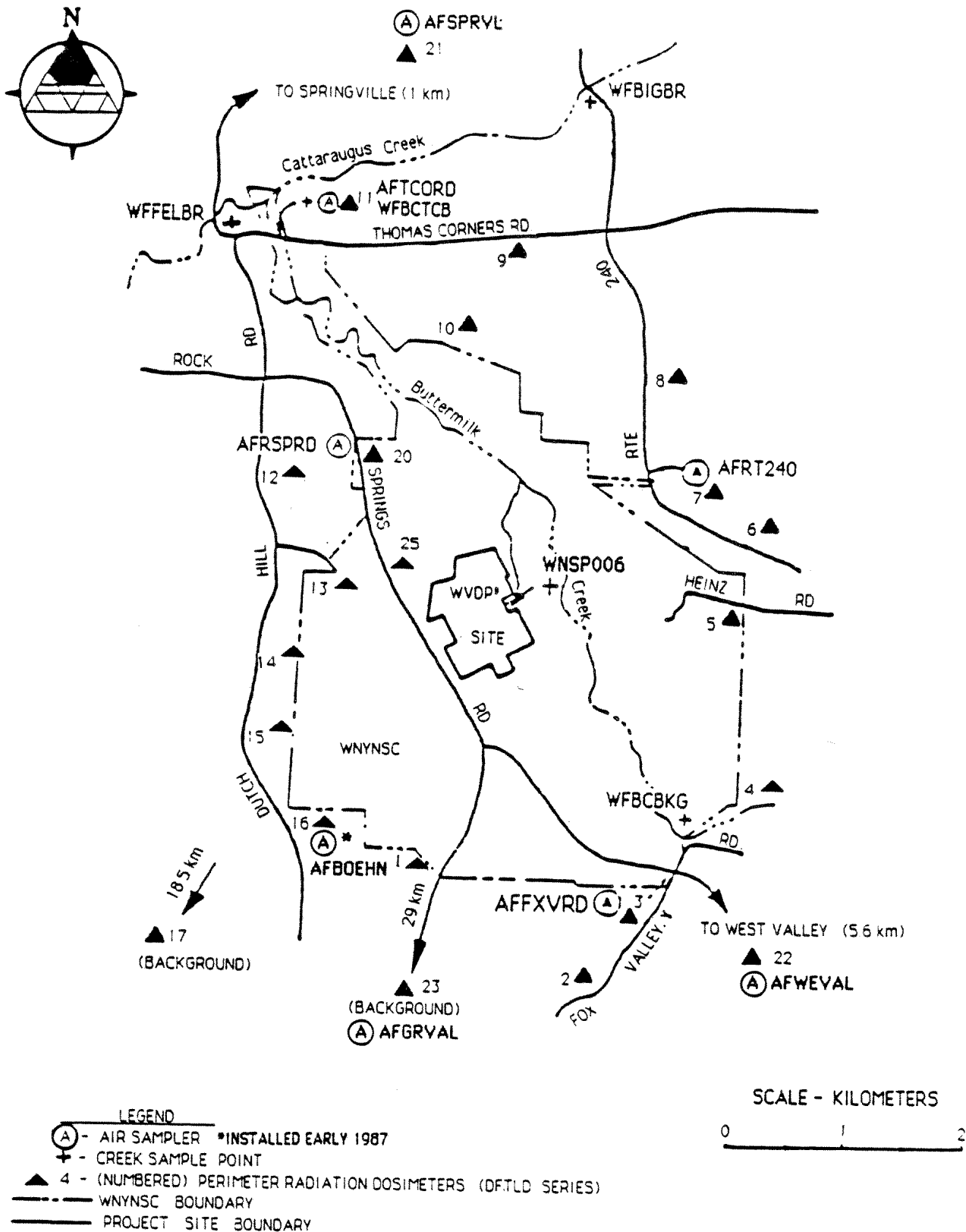
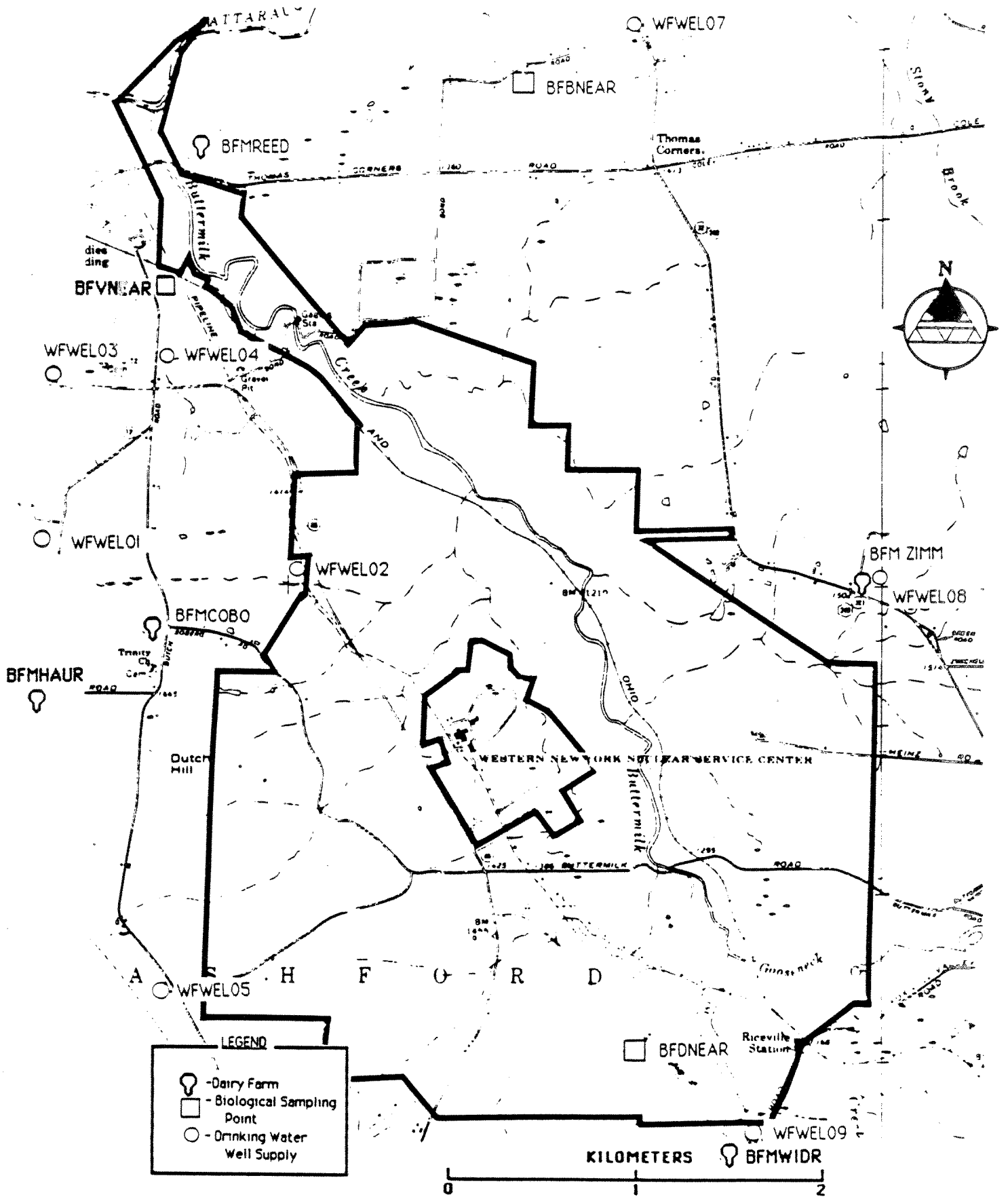


FIGURE A-4
Locations of Perimeter Environmental
Monitoring Stations



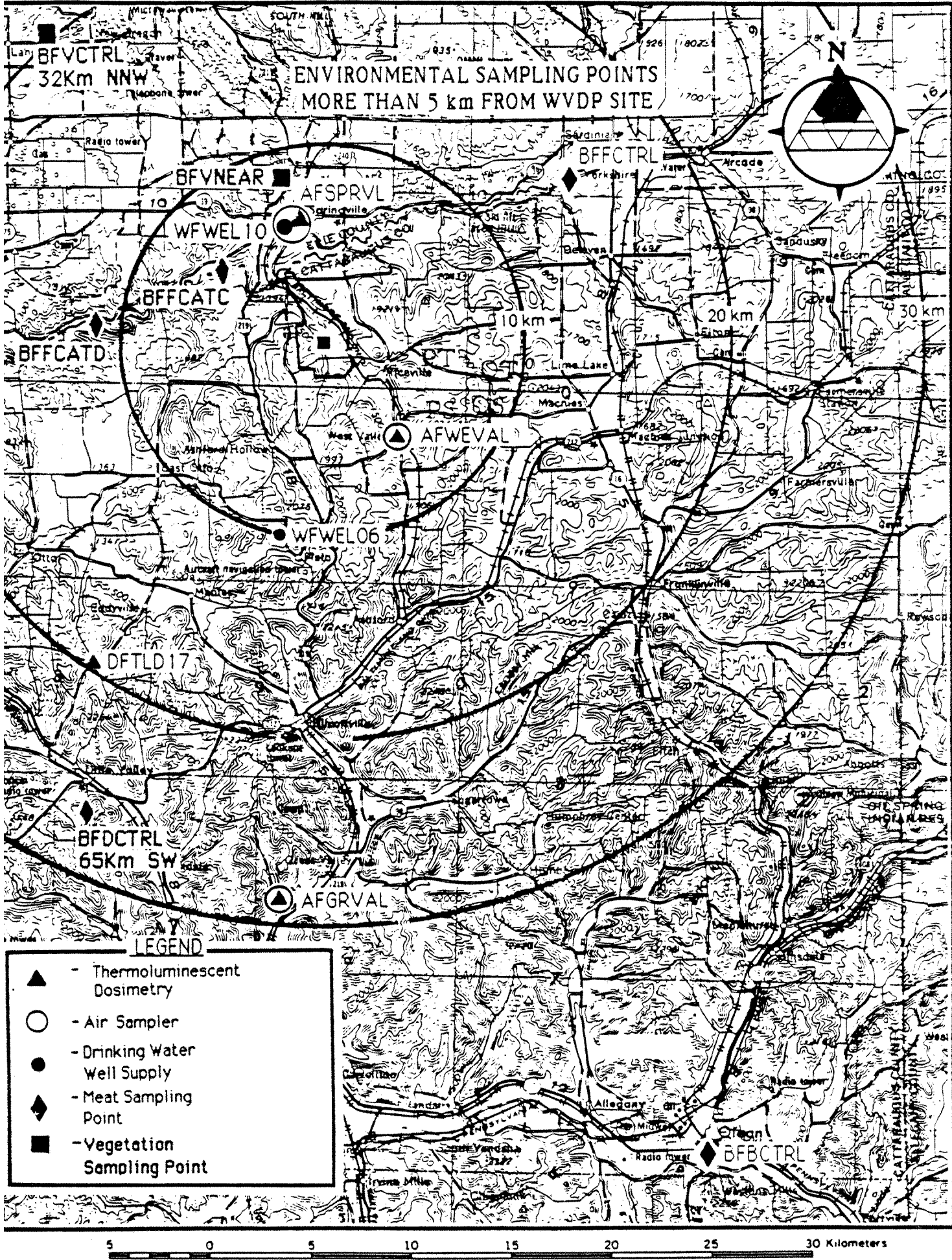


FIGURE A-6

SUMMARY OF MONITORING PROGRAM CHANGES IMPLEMENTED IN 1986

The following is a summary of the significant environmental monitoring program modifications which were implemented in 1986. Some of the changes reflect readjustments due to plant process improvements, and others are a result of program evaluation and long-term planning adjustments. The description and results of most of the near plant monitoring is not included in the scope of this report, but a summary schedule (Appendix A) is provided for information.

<u>Location I.D.</u>	<u>Description of Changes Implemented</u>
ANSTACK	added tritium, quarterly U/Pu and Am-241
WNSP001	added cyanide, oil and grease to SPDES parameters
WNSP006	removed SPDES parameters (new permit)
WNINTER	removed from Environmental to Operations as a process control point
WNWNF Series	removed because more recently drilled wells are now available nearby
WNW80,82,83 Series	added a list of parameters to reflect expanded program requirements
WNSP007	changed to reflect new SPDES permit
WNSW74A	added to monitor additional on-site North Plateau drainage
WNSP008	changed (from WNFRDRN) to reflect new SPDES permit
WNNDADR	changed (from WNHULLB) location 10 metres downstream, and upgraded to automatic composite sampler
WNSFILT	removed to reflect new combined drainage at WNS0007
WNCONDP	removed to reflect new combined drainage at WNSP007
WNSTAW	added chemical parameters
WNDRNKW	added chemical parameters to routine schedule
WFBIGBR	removed water grab sample

SUMMARY OF MONITORING PROGRAM CHANGES IMPLEMENTED IN 1986 (continued)

<u>Location I.D.</u>	<u>Description of Changes Implemented</u>
WFWEL01 through 10	added chemical indicator parameters
AFRSPRD	added tritium in air and charcoal media nearsite
AFGRVAL	added tritium in air and charcoal media background
AFDNKRK	added location: sited but not placed in operation
AFBOEHN	added location: sited but not placed in operation
SF Series Soil	added Am-241
SFTCSED	added annual U/Pu isotopic and Am-241
SFBCSED	added annual U/Pu isotopic and Am-241
BFFCATD	added sample point for fish downstream of Springville dam; all fish now 10 specimens per sample point from 9 previously
BFMCTRL	added a North and South location quarterly, removed annual Albany location
BFMWIDR	added a Southeast nearsite annual sample
BFMHAUR	added a Southwest nearsite annual sample
BFMCOBO	changed West annual nearsite sample point to quarterly composite

SUMMARY OF MONITORING PROGRAM CHANGES IMPLEMENTED IN 1986 (continued)

<u>Location I.D.</u>	<u>Description of Changes Implemented</u>
BFVNEAR	added tritium
BFVCTRL	added tritium
BFDNEAR	changed requirement for bone analysis: will not be required under modification of technical specifications
DFTLD Series	added inner security fence monitoring points, and at AFDNKRK location when operable