053 0532

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: April 24, 1981

SUBJECT: Colbert Landfill Data

FROM: Ben Eusebio, Chief
Surveillance Branch

TO: Chuck Findley, Chief
Waste Management Branch (M/S 529)

THRU: Gary L. O'Neal, Director Gary L. O'Neal
Surveillance & Analysis Division

Here are the final laboratory analytical results for the well water samplings conducted February 10 and 11, 1981 at the vicinity of Colbert Landfill site. Figures 1-4 include site plan and sample location information which should be helpful in evaluating the data.

Also included is Table 2 which shows both the SNARL (Suggested No Adverse Response Level) values and ambient water criteria for the organics we are reporting on. Note that comparing with the ambient water criteria, there appear to be no problems. However, compared with SNARL, it appears that we should be concerned with some well data. For example, 1,1,1-Trichloroethane, some well data values exceed the 1,000 micrograms/liter level. Another issue you should be aware of is the apparent discrepancy between the 0.00079 micrograms/liter ambient water criteria level for PCB-1260 compared to the detection limit of 0.015. I suggest that AHMD take the lead in calling a meeting to discuss these "criteria" related questions. Participants should include Drinking Water Program staff, Mike Watson, S&A, and Enforcement staff. It would be desirable to have such a group be aware of the problems created by Agency publication of "conflicting" criteria values.

Please call if you wish to discuss this memo.

Attachments

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cc: Alex Smith
Arnold Gahler
John Barich
Carolyn Wilson (yellow)
Dennis Stefani
Clark Gaulding
Bob Courson (w/o attachments)

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Table 2

Criteria

µg/l

	Ambient Water Criteria a/	SNARL b/
PCB 1260	.00079	
Bis (2-Ethylhexyl) Phthalate	15,000	
Di-N-Butyl Phthalate	34,000	
Diethyl Phthalate	350,000	
Tetrachloromethane (Carbon Tetrachloride)	4.0	
1,2-Dichloroethane	9.4	
1,1,1-Trichloroethane	18,400	1,000
Trichloromethane (Chloroform)	1.9	
1,1-Dichloroethylene	0.33	
Dichloromethane (Methylene Chloride)	1.9	
Dichlorobromomethane (Bromodichloromethane)	1.9	
Tetrachloroethylene	8.0	2.3 g for 1 day
Trichloroethylene	27.0	

1,4 - Dichloroethane

a/ Ambient water criteria--1 in 100,000 risk to humans from water and aquatic organisms if ingested over a lifetime. (Federal Register, Nov., 1980.)

b/ Suggested No Adverse Response Level (SNARL).

1,2 -

10^{-5} or above (moderate risk) — Alert call from laboratory to ODW; Immediate Regional & State notification

10^{-6} to 10^{-5} (slow risk) — Notification by laboratory to ODW in its weekly report; Regional & State notification within one week

Less than 10^{-6} (very low risk) — Notification to ODW, Regions and States in bi-monthly report.

Table 1

Concentrations in Water of Selected a/ Organic Compounds for Sampling Conducted February 10 and 11, 1981

(Units of Micrograms Per Liter)

	(b) (6) Well	Northside 208 Well	(b) (6) Well	(b) (6) n Well	(b) (6) Spring	(b) (6) Well	(b) (6) Well	(b) (6) Well	(b) (6) Well	Mica Monitoring Well	Hidden Hollow Well
PESTICIDES											
PCB 1260	0.36 b/	--	--	--	NA	NA	NA	NA	NA	NA	NA
BASE NEUTRAL EXTRACTABLES											
Bis (2-Ethylhexyl) Phthalate	--	--	1	--	2	--	--	7	--	NA	NA
N-Butyl Benzyl Phthalate	4	7	1	--	--	--	--	--	--	NA	NA
Di-N-Butyl Phthalate	1	2	1	--	2	--	--	2	--	NA	NA
Di-N-Octyl Phthalate	--	--	--	--	1	--	--	--	--	NA	NA
Diethyl Phthalate	3	2	1	--	1	--	--	1	--	NA	NA
ACID COMPOUNDS	--	--	--	--	--	--	--	--	--	NA	NA
VOLATILE ORGANICS c/											
Tetrachloromethane (Carbon Tetrachloride)	--	--	--	--	--	--	--	3.3	--	--	--
1,2-Dichloroethane	10	--	--	3	--	--	5	3	4.3	--	--
1,1,1-Trichloroethane	--	25	--	9,400	33	1,700	2,100	53	1,080	42	40
1,1-Dichloroethane	--	--	--	55	--	64	80	--	43	--	--
Trichloromethane (Chloroform)	11	--	--	1.3	--	--	--	--	--	--	--
1,1-Dichloroethylene	--	--	--	380	--	--	--	--	--	--	--
1,2-Trans-Dichloroethylene	115	--	--	--	--	--	--	--	--	--	--
Dichloromethane (Methylene Chloride)	--	--	--	34	--	--	--	--	--	--	--
Dichlorobromomethane (Bromodichloromethane)	1.4	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	23	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	8.3	--	--	12	--	--	--	--	--	--	--

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a/ This table is based on analyses by the Region 10 EPA Laboratory for organic "priority pollutants".
b/ No blank was available for comparison with this result.
c/ Volatile organics--Reported concentrations are gas chromatograph (GC) results.
-- Not detected (less than the detection limit).

Fig. 1 Closed Greenacres LF

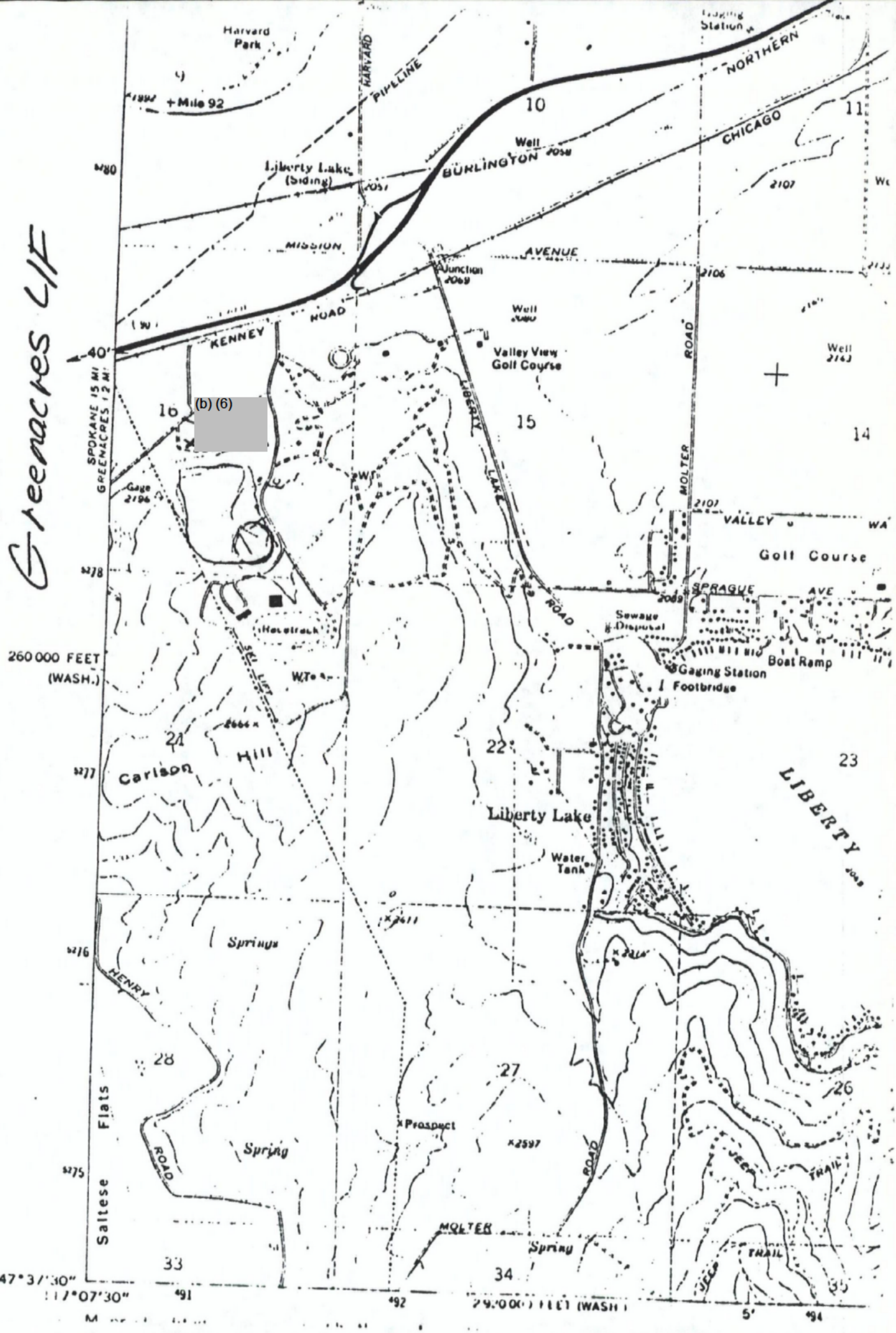

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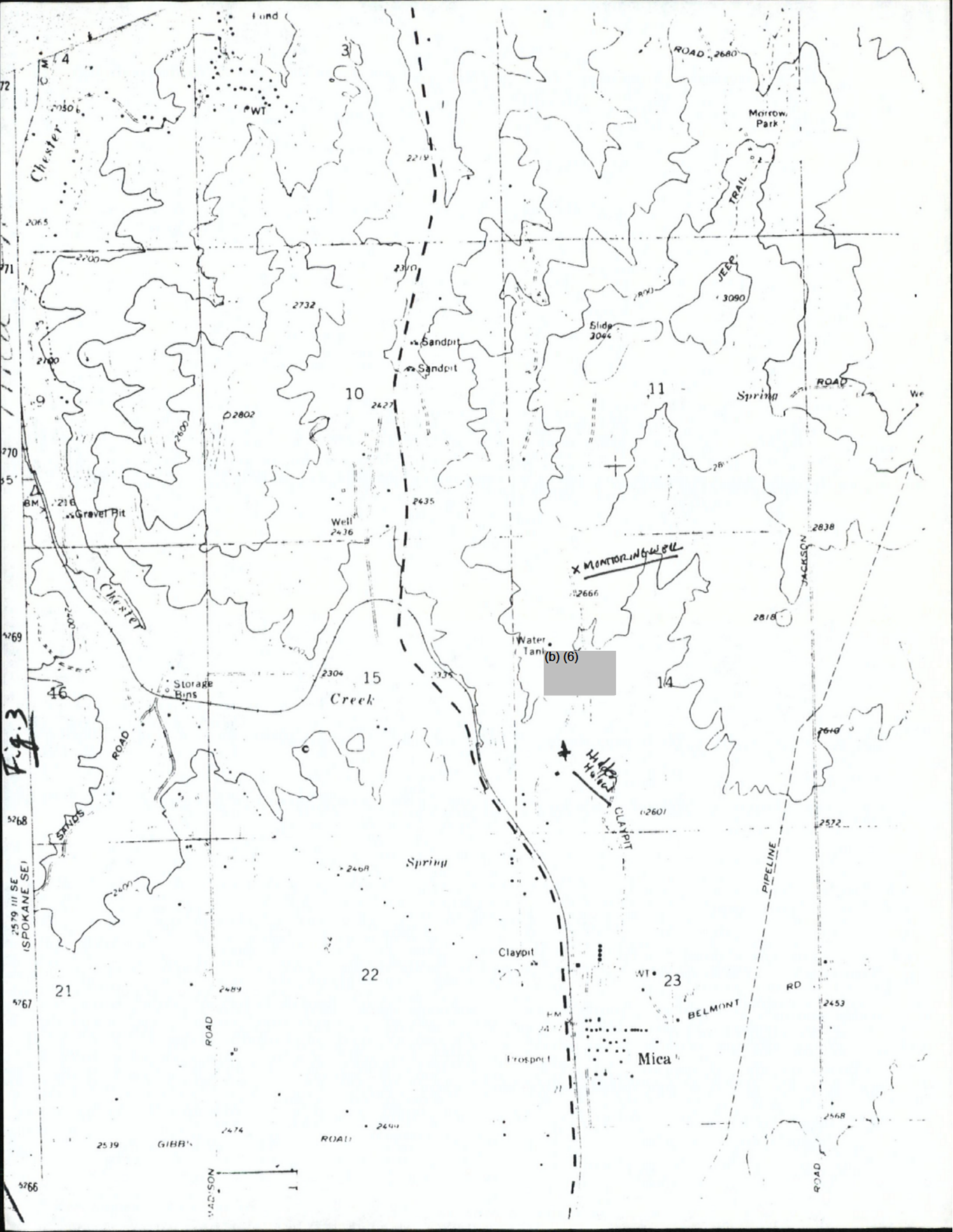
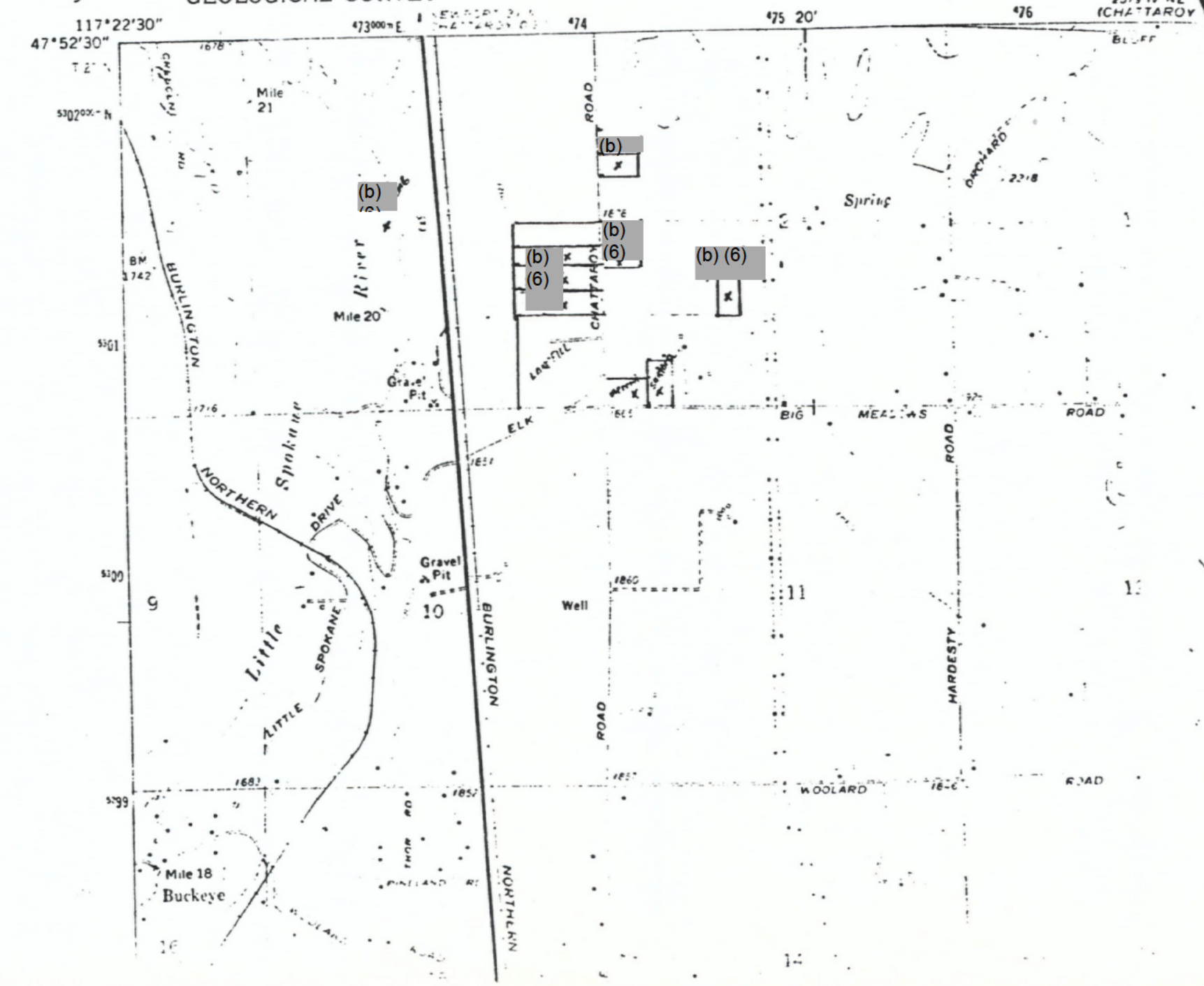
Fig. 2 North Spokane 4IF



Chester
Morrow Park
ROAD
TRAIL
JEEP
Slide
Sandpit
Sandpit
Spring
ROAD
Gravel Pit
Well
Chester
Water Tank
(b) (6)
Storage Bins
Creek
SANDS
ROAD
Spring
CLAYPIT
PIPELINE
JACKSON
Claypit
BELMONT
RD
Prospect
Mica
GIBBS
ROAD
MADISON
ROAD
2579 III SE
(SPOKANE SE)

Fig. 3

Fig. 4

Colbert

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