055 0551

Colbert landfill

Neal Thompson

Contract time table

A DESCRIPTION OF TASKS AND SUBTASKS USED FOR ESTIMATING THE COST OF PHASE I

Task/ Subtask	Description	Schedule Start (Week)	Schedule Complete (Week)
01010	Meet with officials	1	1
01020	Define available information sources	1	1
01030	Identify specific study needs	1	1
01040	Define reports and maps to be submitted	1	1
01050	Establish lines of communication	1	1
01060	Specify time frame	1	1
01070	Finalize work plan	1	1
02000	Begin site inventory	1	6
02010	Review waste records	2	6
02011	Identify location of cells	2	6
02012	Identify type of waste in each cell	2	6
02013	Identify unique wastes in landfill	2	6
02014	Determine date each cell start and full	2	6
02015	Talk with past supervisory and operational personnel	2	6
02016	Characterize types of operational equipment used	2	6
02020	Collect soil data	2	6
02021	Determine grain-size distribution	2	6
02022	Make moisture-density curves	2	6
02023	Permeability of each soil type	2	6
02024	Determine operating compaction	2	6
02030	Collect well logs	2	6
02031	Define rock units	2	6
02032	Field locate each water well in study area	2	3
02032(1)	Determine land surface elevation at each site	2	3
02032(2)	Determine current ownership of wells	2	3
02032(3)	Determine availability of wells for logging	2	3
0203~~4~~3(4)	Make borehole logs of available wells	3	6
02033	Evaluate pump test data on well logs	2	3
02033(1)	Determine transmissivity and storage of aquifer	2	3
02034	Determine date well drilled	2	6
02035	Evaluate casing schedule for each well	2	6
02040	Aquifer water quality information	2	6
02041	Determine date water quality analysis made	2	6
02042	Determine general constituents in analysis	2	6

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TECHNICAL OPERATIONS SECTION

Task/ Subtask	Description	Schedule Start (Week)	Schedule Complete (Week)
02043	Determine source of water quality sample	2	6
02044	Determine purpose for which sample taken	2	6
02045	Locate water source for water quality sample	2	6
02046	Identify laboratory making analysis	2	6
02050	Identify wastewater disposal methods in study area	2	3
02051	Determine location of wastewater disposal sites	2	6
02060	Field check geology	2	3
02061	Map joints and fractures	2	6
02070	Collect records of utility lines in study area	2	6
02080	Complete inventory of landfill sites	6	6
03010	Make sketch maps of waste cells	7	8
03011	Determine depth of waste cells	7	8
03012	Determine thickness of waste cells	7	8
03013	Determine width of waste cells	7	8
03014	Code types of waste predominating in each cell	7	8
03015	Code dates cell active	7	8
03016	Code for each cell the location of unique wastes	7	8
03017	Code type of soil cover used for each waste cell	7	8
03018	Code the probable compaction of waste and cover for each cell	7	8
03020	Locate utility lines in location to cells	7	8
03030	Draw cross section of geology and landfill	7	8
03031	On cross section correlate rock units	7	8
03032	On cross section define aquifer	7	8
03033	On cross section identify casing controls	7	8
03034	On cross section show groundwater table	7	8
03035	Relate transmissivity and storage to aquifer on cross section	7	8
03036	Show water quality information on cross sections	7	8
03037	Show wastewater disposal areas on cross sections	7	8
03038	Show surface geology on cross sections	7	8
03039	Show total depth of landfill on cross sections	7	8
03040	Classify all wells	8	8

Task/ Subtask	Description	Schedule Start (Week)	Schedule Complete (Week)
04010	Identify areas of potential methane collection	9	12
04020	Field check for methane	12	12
05010	Prepare trend maps	9	10
05011	Prepare aquifer structure contour maps	9	10
05012	Prepare aquitard structural contour maps	9	10
05013	Prepare aquifer isopach maps	9	10
05014	Prepare aquitard isopach maps	9	10
05020	Prepare interpretative maps	10	12
05021	Contour values of transmissivity of aquifer	10	12
05022	Contour values of storage of aquifer	10	12
05023	Prepare water quality trend maps	10	12
05024	Prepare groundwater contour maps	10	12
05025	Draw flow nets for aquifer	10	12
05026	Draw water quality change contours	10	12
05030	Complete conceptual model	12	13
05031	Store data base	13	13
05032	Identify additional data needs	13	13
06010	Prepare draft report	13	14
06020	Complete review of draft report	14	14

POTENTIAL HAZARDOUS SITE INSPECTION
COLBERT LANDFILL, COLBERT, WASHINGTON

JAMES HILEMAN, SANITARY ENGINEER

JOHN BARICH, MANAGER
UNCONTROLLED HAZARDOUS WASTE SITE PROGRAM

BEN EUSEBIO, CHIEF
SURVEILLANCE BRANCH

ON APRIL 24, 1980 A PRELIMINARY HAZARDOUS WASTE INSPECTION WAS PERFORMED AT THE COLBERT LANDFILL LOCATED NEAR COLBERT, WASHINGTON.

PARTICIPANTS

MR. JAMES HILEMAN	EPA, SEATTLE
MR. JIM MALM	DOE, WASHINGTON
MR. DAMON TAAM	SPOKANE COUNTY

THE INSPECTION BEGAN APPROXIMATELY 1400 WITH DISCUSSION OF INSPECTION PURPOSE AND LANDFILL OPERATIONS AS RELATED TO WASTE GENERATION AND DISPOSAL PRACTICES.

DISCUSSION

THE COLBERT SANITARY LANDFILL IS LOCATED BETWEEN THE TOWNS OF COLBERT AND CHATTAROY. THE SURROUNDING AREA IS SPARSELY POPULATED.

THE COLBERT SANITARY LANDFILL RECEIVES SOLID WASTE FROM DOMESTIC AND INDUSTRIAL SOURCES. RECORDS WERE NOT KEPT FOR THE TYPES AND QUANITIES OF WASTES DISPOSED OF IN THIS LANDFILL. HOWEVER, IT IS KNOWN FROM A PREVIOUS SITE INSPECTION THAT DRAPER TRACTOR DISPOSED OF 1,000 CUBIC YARDS OF OILY WASTES AT THE COLBERT LANDFILL. THE PERMIT APPLICATION, FOR THE LANDFILL, MENTIONS COPPER CHLORIDE BEING DISPOSED OF IN THE LANDFILL. SPOKANE COUNTY IS CURRENTLY CONDUCTING A HAZARDOUS WASTE INVENTORY OF ALL THE INDUSTRIAL USERS OF THE LANDFILL. THIS REPORT WILL BE ADDED TO THE FILE WHEN RECEIVED.

A SMALL SEWAGE TREATMENT PLANT SLUDGE DRYING OPERATION IS MAINTAINED AT THIS SITE. THE SOURCE OF THE SLUDGE IS FROM COUNTY OPERATED DOMESTIC SEWAGE PACKAGE PLANTS.

OFFICE OF COUNTY ENGINEER
SPOKANE, WASHINGTON

COLBERT SANITARY LANDFILL

SPOKANE COUNTY, WASHINGTON

LOCATION OF PROPOSED IMPROVEMENT SHOWN

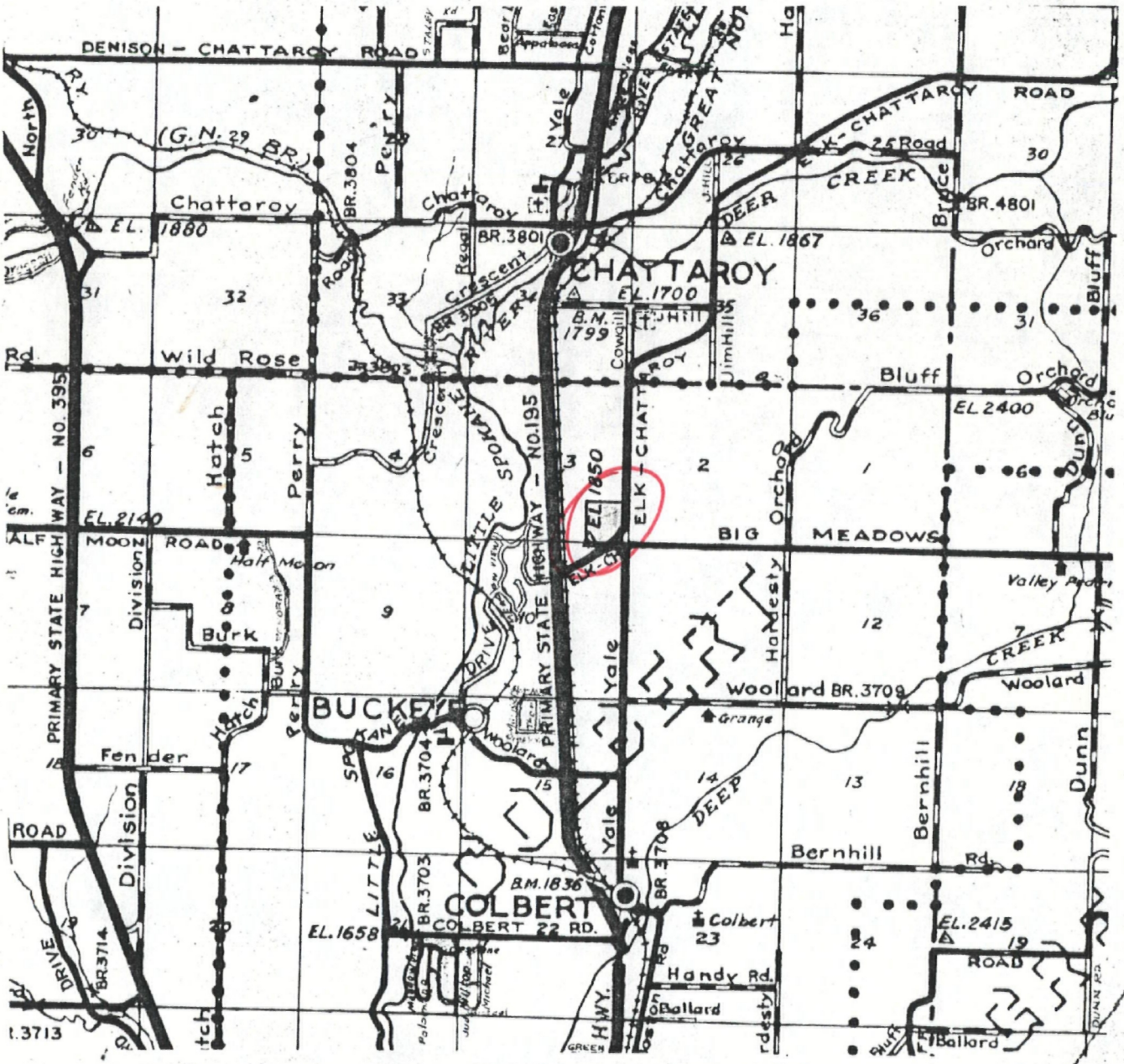

Table 2

Criteria

	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
Trichloroethylene	27.0	

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).

N

results are parts per billion (PPB) 1,1,1 Trichloroethane

LO DOLGE ROAD

(b) (6)

(b) (6)

(b) (6)

(b) (6)

ELK-CHAITAROY ROAD

(b) (6)

X
1.1 PPB

RUSSELL ROAD

(b) (6)

(b) (6)

X
44 PPB

(b) (6)

X
1,560 PPB

(b) (6)

X
1180 PPB

B. N.
RAILROAD

(b) (6)

X
1,400 PPB

SINGLETREE AVE.

(b) (6)

(b) (6)

X
10,000 PPB

(b) (6)

X
1.5 PPB

(b) (6)

NEWPORT HIGHWAY (S.R. 2)

COLBERT SANITARY
LANDFILL

SE 1/4, of SE 1/4, S3-T27-R43E

B. N.
RAILROAD

(b) (6)

X
1.7 PPB

BIG MEADOWS ROAD

ELK-CHAITAROY ROAD

VALE ROAD