



TABLE 4-2  
 TIOGA CASTINGS SITE  
 REMEDIAL INVESTIGATION REPORT  
 SUMMARY OF PHASE I ON-SITE SURFACE SOIL/WASTE PILE CONTAMINATION  
 FOR PRIMARY ANALYTES OF CONCERN

SAMPLE ID	Total VOCs (mg/kg)	Total PAHs (mg/kg)	Total CPAHs (mg/kg)	Total Pesticides (mg/kg)	Total PCBs (mg/kg)	Total Cadmium (mg/kg)	Total Chromium (mg/kg)	Total Copper (mg/kg)	Total Lead (mg/kg)	Total Mercury (mg/kg)
<b>Guideline</b>	1	100	10	10	1	4	40	60	250	1
TCSS1	NA	7.69	4.48	0.0078	ND	0.91	25.6	<b>60.6</b>	200	0.13
TCSS2	NA	NA	NA	ND	0.153	NA	NA	NA	NA	NA
TCSS3	NA	NA	NA	NA	NA	1.6	<b>63.2</b>	<b>87.5</b>	<b>395</b>	ND
TCSS4	NA	NA	NA	NA	NA	3.9	<b>280</b>	<b>244</b>	<b>277</b>	0.19
TCSS5	NA	NA	NA	NA	NA	1.5	19.4	32.2	91.8	0.13
TCSS6	ND	1.4	ND	0.052	ND	2.2	<b>114</b>	<b>99.1</b>	28.7	ND
TCSS7	NA	NA	NA	NA	NA	1.9	<b>55</b>	<b>59.1</b>	<b>306</b>	0.13
TCSS8	NA	NA	NA	NA	NA	ND	21.7	18.3	10.5	ND
TCSS9	0.002	0.26	ND	0.008	ND	0.39	37	31.9	7.1	ND
TCSS10	0.0009	2.432	0.18	ND	ND	2.8	<b>113</b>	<b>72.6</b>	<b>501</b>	0.17
TCSS11	NA	NA	NA	NA	NA	ND	10.5	11.8	61.8	ND
TCSS12	NA	NA	NA	NA	NA	3.7	33.5	51.7	<b>917</b>	ND
TCSS13	ND	4.193	2.25	0.0071	0.11	1.2	24.2	45.3	141	0.21
TCSS14	NA	NA	NA	NA	NA	2.5	<b>106</b>	<b>83.2</b>	160	ND
TCSS15	ND	ND	ND	ND	0.43	<b>48.6</b>	<b>146</b>	<b>343</b>	<b>22200</b>	0.14

QUALIFIERS

NA: Not analyzed for

ND: Analyzed for but not detected

**Value exceeds guideline**

TABLE 4-4  
 TIOGA CASTINGS SITE  
 REMEDIAL INVESTIGATION REPORT  
 SUMMARY OF PHASE I OFF-SITE SURFACE SOIL/WASTE PILE CONTAMINATION  
 FOR PRIMARY ANALYTES OF CONCERN

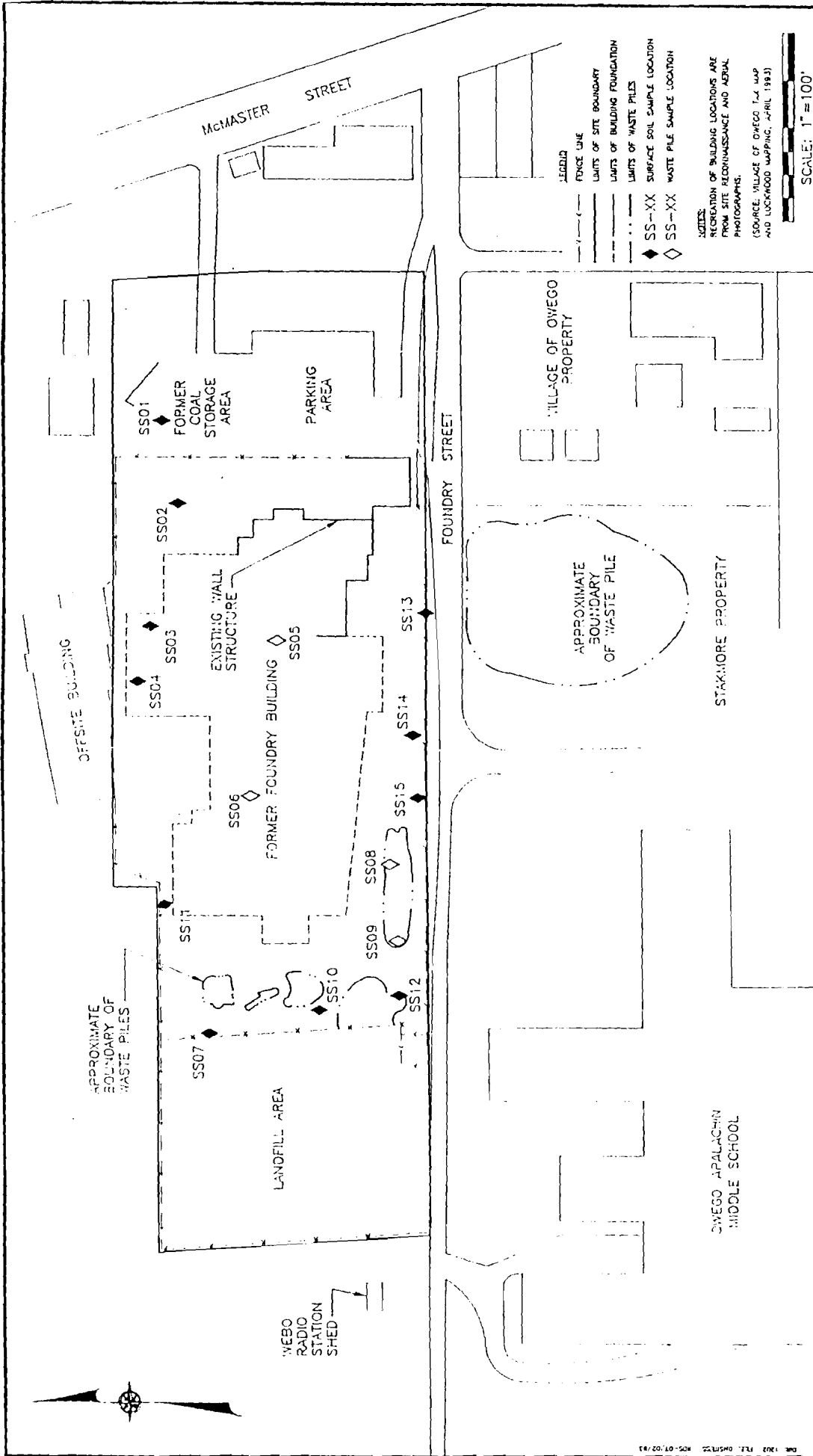
SAMPLE ID	Total VOCs (mg/kg)	Total PAHs (mg/kg)	Total CPAHs (mg/kg)	Total Pesticides (mg/kg)	Total PCBs (mg/kg)	Total Cadmium (mg/kg)	Total Chromium (mg/kg)	Total Copper (mg/kg)	Total Lead (mg/kg)	Total Mercury (mg/kg)
Guideline	1	100	10	10	1	4	40	60	250	1
TCSS16	NA	NA	NA	NA	NA	9.5	39.1	95.6	822	0.51
TCSS17	NA	NA	NA	NA	NA	0.23	22	37.4	157	0.12
TCSS18	NA	NA	NA	NA	NA	0.57	47.4	89	140	ND
TCSS19	NA	NA	NA	NA	NA	3.2	65.7	83.5	503	0.26
TCHAS21A	NA	NA	NA	NA	NA	ND	14.1	26.5	215	0.12
TCHAS21B	NA	NA	NA	NA	NA	ND	15.4	26.5	232	ND
TCHAS22A	NA	NA	NA	NA	NA	0.36	12.6	35.3	226	0.14
TCHAS22B	NA	NA	NA	NA	NA	ND	15.8	34.8	404	0.17
TCSS23	NA	NA	NA	NA	NA	3.1	79.7	70.6	378	ND
TCSS24	NA	NA	NA	NA	NA	3.4	42.6	50	665	0.19
TCSS25	NA	NA	NA	NA	NA	0.73	15.9	19.8	27	ND
TCSS26	NA	NA	NA	NA	NA	0.68	18.5	21.8	34.6	ND
TCSS27	NA	NA	NA	NA	NA	0.51	15.9	18.4	37.9	ND
TCSS28	NA	NA	NA	NA	NA	1.6	23.2	57.3	391	0.99
TCSS29	NA	NA	NA	NA	NA	0.81	19.9	43.7	266	0.17
TCSS30	NA	NA	NA	NA	NA	0.47	29	12.3	15	0.18
TCSS31	NA	NA	NA	NA	NA	ND	15.6	19.5	24.5	0.12
TCSS32	NA	NA	NA	NA	NA	ND	16.3	16.9	24.8	ND

QUALIFIERS

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Value exceeds guideline



- LEGEND**
- FENCE LINE
  - LIMITS OF SITE BOUNDARY
  - ..... LIMITS OF BUILDING FOUNDATION
  - · - · - · LIMITS OF WASTE PILES
  - ◆ SS-XX SURFACE SOIL SAMPLE LOCATION
  - ◇ SS-XX WASTE PILE SAMPLE LOCATION

**NOTES:**  
 RECREATION OF BUILDING LOCATIONS ARE FROM SITE RECONNAISSANCE AND AERIAL PHOTOGRAPHS.  
 (SOURCE: VILLAGE OF OWEGO T.L.A. MAP AND LOCKWOOD MAPPING, APRIL 1983)

SCALE: 1" = 100'



DATE: 12/02 P.L. 04/11/83 105-07-02/83

TIOGA CASTINGS SITE  
 OWEGO, NEW YORK

PHASE I RI  
 ON-SITE SURFACE SOIL/WASTE PILE SAMPLE LOCATION MAP

FIGURE 2-1

**db** Dvirka and Barfilucci  
 Consulting Engineers

TABLE 4-5  
 TIOGA CASTINGS SITE  
 REMEDIAL INVESTIGATION REPORT  
 SUMMARY OF PHASE I SUBSURFACE SOIL/BOREHOLE FILL MATERIAL CONTAMINATION  
 FOR PRIMARY ANALYTES OF CONCERN

SAMPLE ID	Total VOCs (mg/kg)	Total PAHs (mg/kg)	Total CPAHs (mg/kg)	Total Pesticides (mg/kg)	Total PCBs (mg/kg)	Total Cadmium (mg/kg)	Total Chromium (mg/kg)	Total Copper (mg/kg)	Total Lead (mg/kg)	Total Mercury (mg/kg)	Total Nickel (mg/kg)
<b>Guideline</b>	1	100	10	10	1	4	40	60	250	1	40
TCMW1S1	NA	NA	NA	NA	NA	0.53	13.7	21.8	45.9	ND	20.5
TCMW1S2	ND	0.613	0.285	ND	ND	0.98	19.5	32.2	57.9	ND	23
TCMW2S1	NA	NA	NA	NA	NA	0.63	20	17	22.7	ND	27.4
TCMW4S1	NA	NA	NA	NA	NA	0.78	16.3	14.1	11	ND	24.7
TCMW5S1	NA	NA	NA	NA	NA	1.2	22.4	29.6	153	ND	27.3
TCBH1S1	NA	NA	NA	NA	NA	0.35	28.5	26.8	80.4	ND	35.7
TCBH1S2	0.009	0.531	ND	ND	ND	ND	33.7	39.4	66.2	ND	15.3
TCBH2S1	ND	0.666	0.075	0.018	ND	1.3	40.8	33.2	34.3	ND	26.7
TCBH2S2	NA	NA	NA	NA	NA	2.3	23.2	49.8	884	ND	23.7
TCBH3S1	NA	NA	NA	NA	NA	0.39	13.8	11.8	14	ND	10.7
TCBH3S2	ND	1.141	0.229	0.01	ND	3	31.7	28.4	405	ND	18.4
TCBH3S3	NA	NA	NA	NA	NA	0.88	30	44.8	19	ND	36.2
TCBH4S1	ND	0.362	0.088	0.00149	ND	5.5	108	80.8	2600	ND	32.2
TCBH5S1	0.009	0.605	0.03	ND	ND	0.59	18.5	16.3	13.9	ND	14.2
TCBH6S1	NA	NA	NA	NA	NA	1.7	98.5	40.4	531	ND	30.8
TCBH6S2	NA	NA	NA	NA	NA	0.77	15.8	19	25.3	ND	26.9

QUALIFIERS

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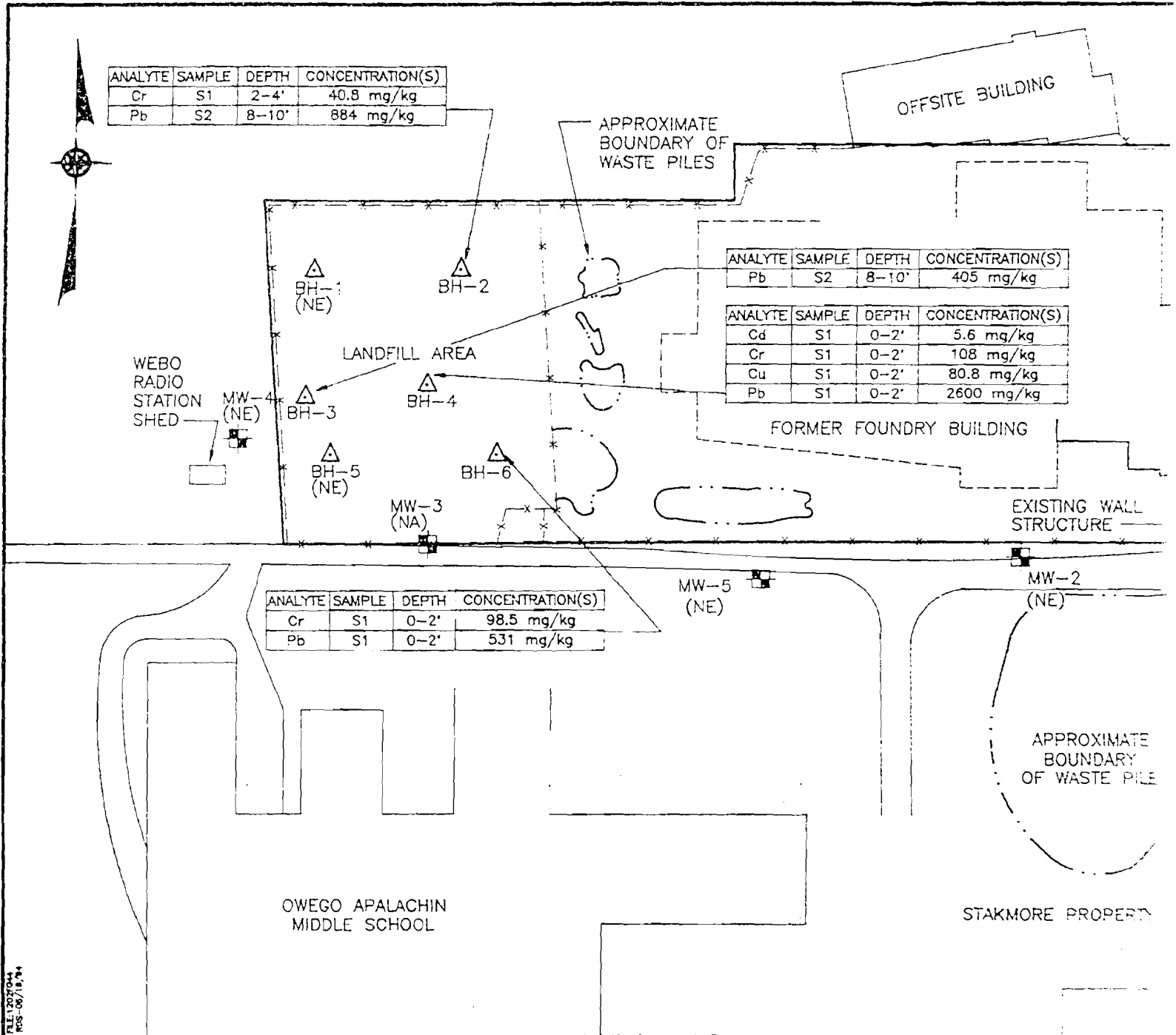
 : Value exceeds guideline

ANALYTE	SAMPLE	DEPTH	CONCENTRATION(S)
Cr	S1	2-4'	40.8 mg/kg
Pb	S2	8-10'	884 mg/kg

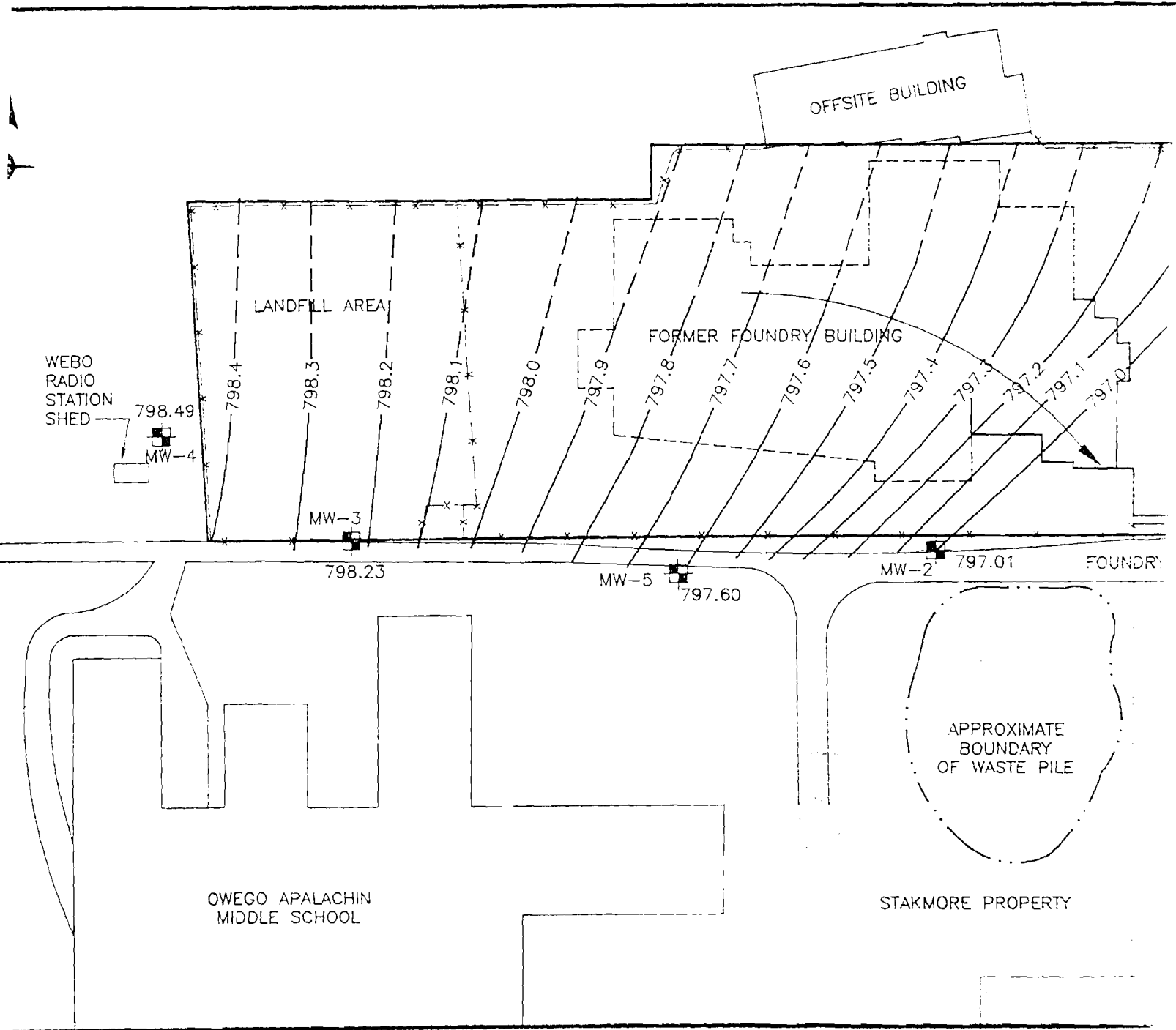
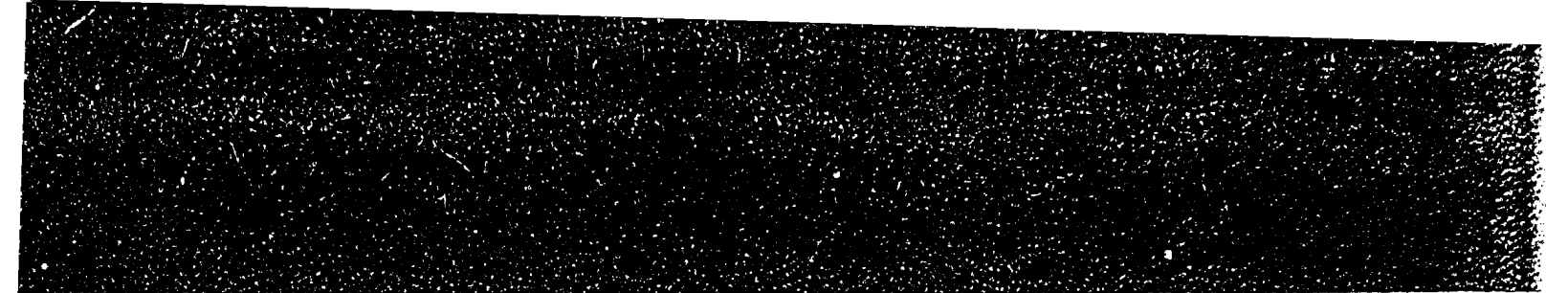
ANALYTE	SAMPLE	DEPTH	CONCENTRATION(S)
Pb	S2	8-10'	405 mg/kg

ANALYTE	SAMPLE	DEPTH	CONCENTRATION(S)
Cd	S1	0-2'	5.6 mg/kg
Cr	S1	0-2'	108 mg/kg
Cu	S1	0-2'	80.8 mg/kg
Pb	S1	0-2'	2600 mg/kg

ANALYTE	SAMPLE	DEPTH	CONCENTRATION(S)
Cr	S1	0-2'	98.5 mg/kg
Pb	S1	0-2'	531 mg/kg

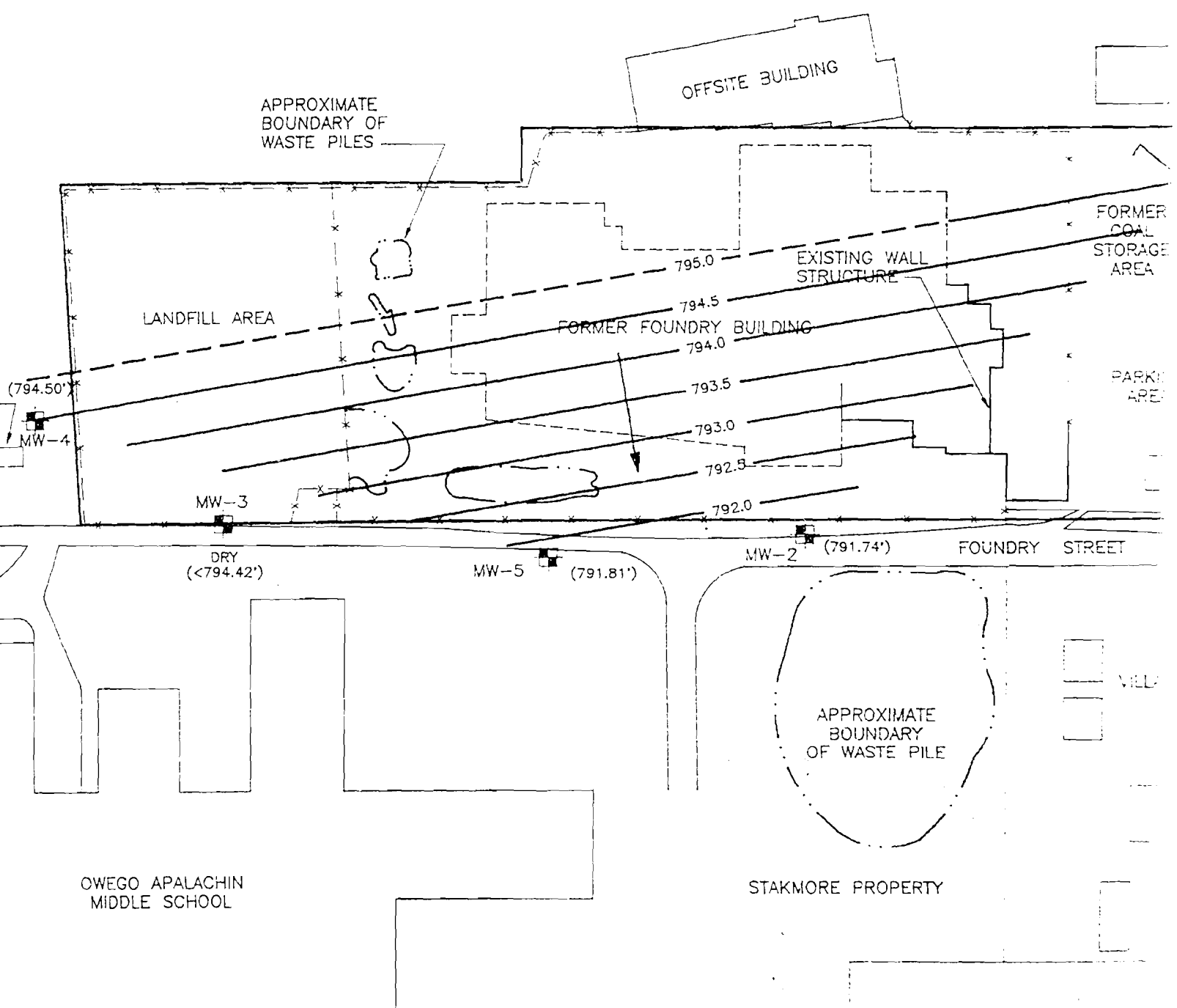


FILE: 10/27/04  
 PDS-00/1.0/4



TIOGA CASTINGS SITE  
OWEGO, NEW YORK

PHASE I RI  
WATER TABLE CONTOUR MAP, MAY 4, 1993



TIOGA CASTINGS SITE  
OWEGO, NEW YORK

PHASE II RI  
WATER TABLE CONTOUR MAP, AUGUST 9, 1993