

Solving Cleanup Challenges Through Risk Reduction

Remediation Project Update

DRAFT 070910 Presentation for Paducah CAB

July 15, 2010



EM Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

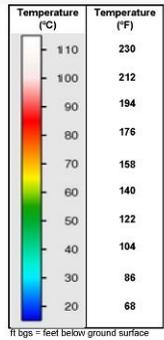


C-400 TCE Source Removal



- 400 gal of TCE removed in more than 60 days of heating
- Target temperature for TCE extraction reached in less than 60 days

C-400 Heating Progress – Southwest Area

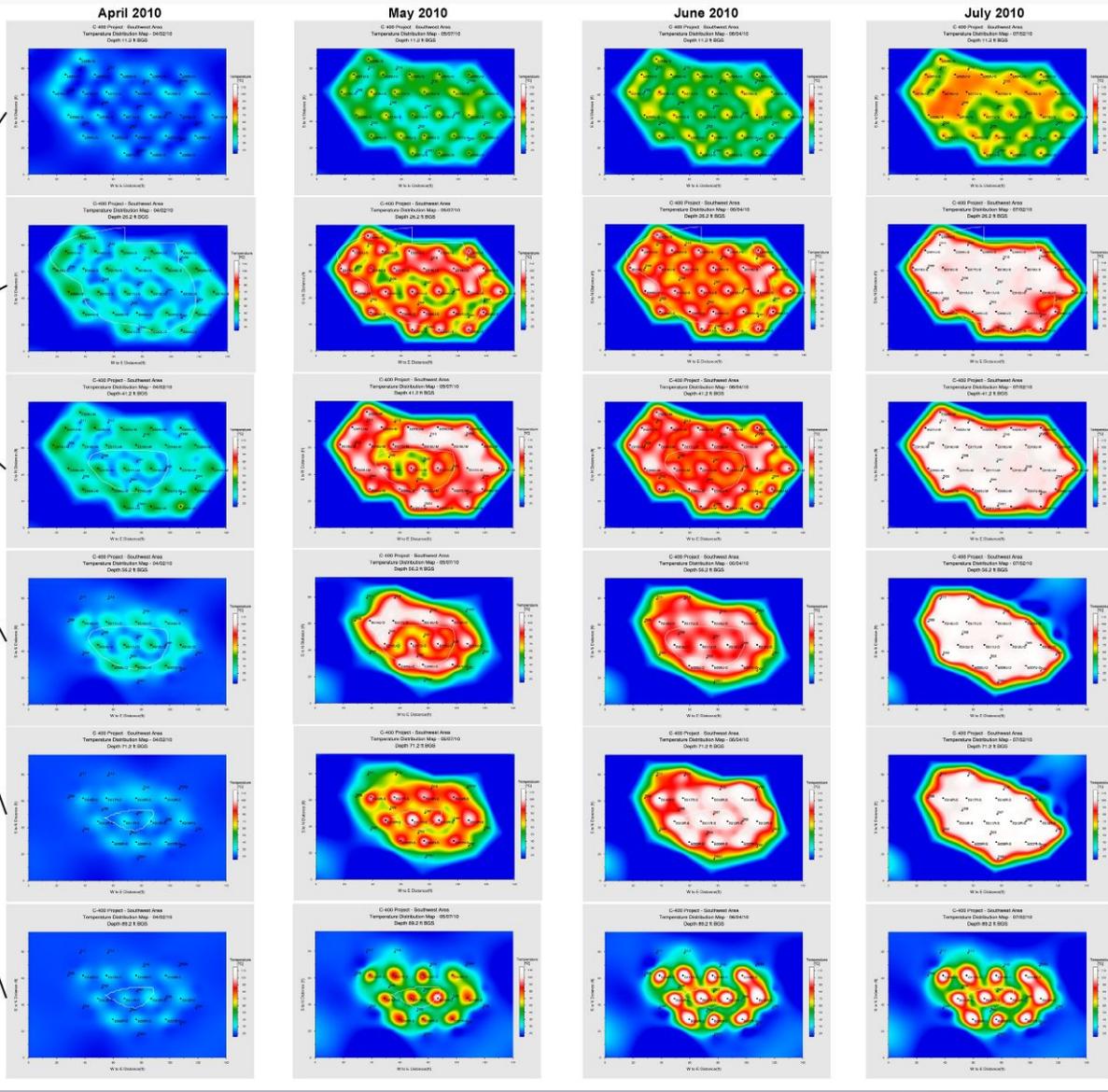


1 ft bgs = feet below ground surface

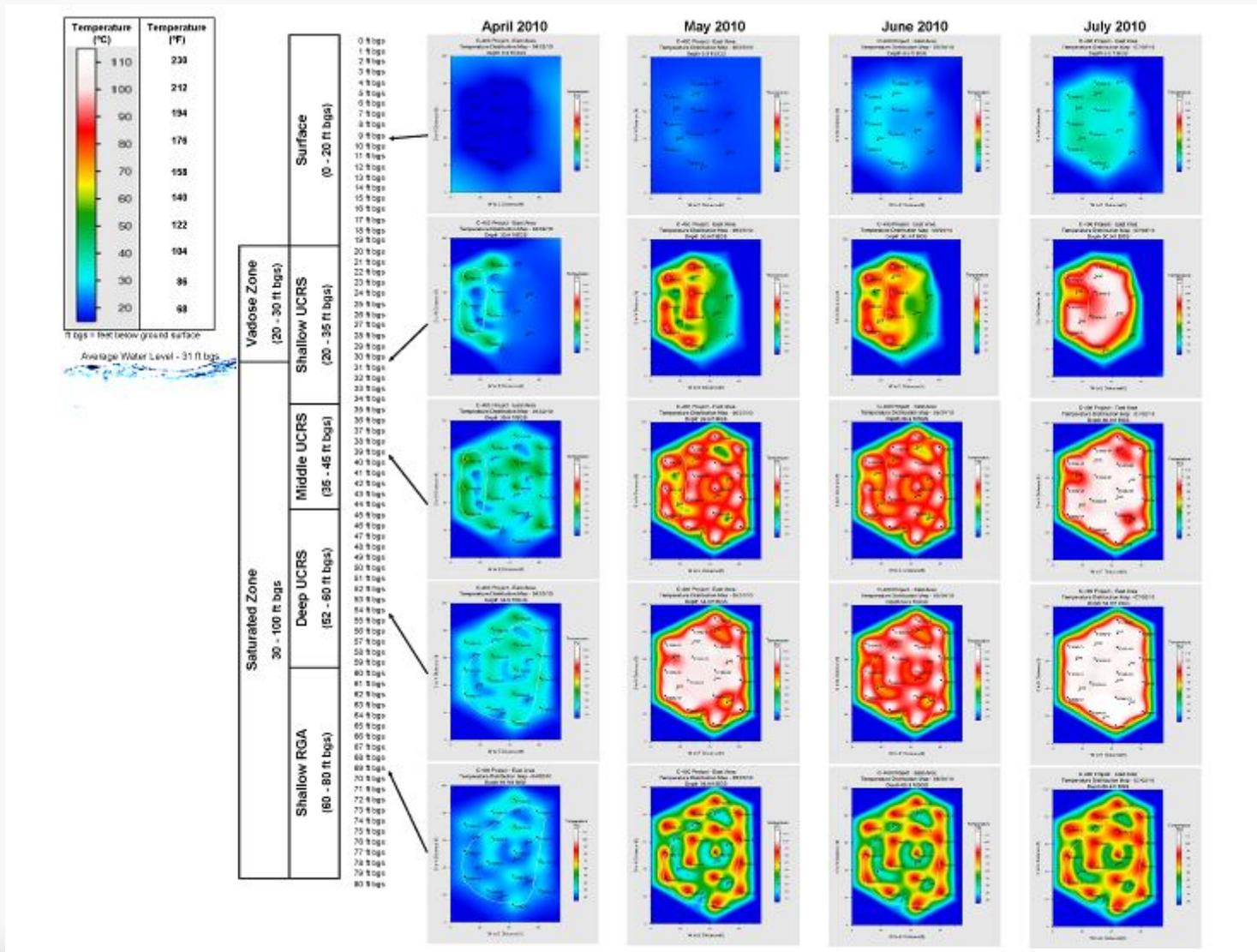


Vadose Zone	Surface (0 - 20 ft bgs)	0 ft bgs	1 ft bgs	2 ft bgs	3 ft bgs	4 ft bgs	5 ft bgs	6 ft bgs	7 ft bgs	8 ft bgs	9 ft bgs	10 ft bgs	11 ft bgs	12 ft bgs	13 ft bgs	14 ft bgs	15 ft bgs	16 ft bgs	17 ft bgs	18 ft bgs	19 ft bgs	20 ft bgs	21 ft bgs	22 ft bgs	23 ft bgs	24 ft bgs	25 ft bgs	26 ft bgs	27 ft bgs	28 ft bgs	29 ft bgs	30 ft bgs	31 ft bgs	32 ft bgs	33 ft bgs	34 ft bgs	35 ft bgs	36 ft bgs	37 ft bgs	38 ft bgs	39 ft bgs	40 ft bgs	41 ft bgs	42 ft bgs	43 ft bgs	44 ft bgs	45 ft bgs	46 ft bgs	47 ft bgs	48 ft bgs	49 ft bgs	50 ft bgs	51 ft bgs	52 ft bgs	53 ft bgs	54 ft bgs	55 ft bgs	56 ft bgs	57 ft bgs	58 ft bgs	59 ft bgs	60 ft bgs	61 ft bgs	62 ft bgs	63 ft bgs	64 ft bgs	65 ft bgs	66 ft bgs	67 ft bgs	68 ft bgs	69 ft bgs	70 ft bgs	71 ft bgs	72 ft bgs	73 ft bgs	74 ft bgs	75 ft bgs	76 ft bgs	77 ft bgs	78 ft bgs	79 ft bgs	80 ft bgs	81 ft bgs	82 ft bgs	83 ft bgs	84 ft bgs	85 ft bgs	86 ft bgs	87 ft bgs	88 ft bgs	89 ft bgs	90 ft bgs	91 ft bgs	92 ft bgs	93 ft bgs	94 ft bgs	95 ft bgs	96 ft bgs	97 ft bgs	98 ft bgs	99 ft bgs	100 ft bgs	101 ft bgs	102 ft bgs	103 ft bgs
	Saturated Zone	Shallow UCRS (20 - 35 ft bgs)																																																																																																							
		Middle UCRS (35 - 45 ft bgs)																																																																																																							
		Deep UCRS (52 - 60 ft bgs)																																																																																																							
		Shallow RGA (60 - 80 ft bgs)																																																																																																							
		Deep RGA (80 - 100 ft bgs)																																																																																																							
		Shallow McNairy (100 - 103 ft bgs)																																																																																																							

* Prior to 7/12/2010, the average temperature included digitAM readings that defaulted to 32°F when a digitAM was out-of-service. Post 7/12/2010, the out-of-service digitAMs were excluded from the average temperatures.



C-400 Heating Progress – East Area



Feed Plant ARRA Milestone Met

ARRA milestone met

- Milestone: remove 25% of piping/equipment
- Reached June 25, one month ahead of schedule
- More than 20,000 ft³ of material dispositioned
- ARRA funding accelerated demolition date one year



Inside C-410



Metals Plant Support Facility Demolished



- 4,000 ft² C-340-D Magnesium Storage Building removed
- Used to store magnesium used in the process to convert uranium tetrafluoride to uranium metal
- Demolition over one week starting in late June



Metals Plant Support Facility Demolished



- C-340-E Emergency Power Structure removed
- Facility housed backup generators to C-340 alarm systems
- Demolition took one day



C-340-D Conveyor System Demolition

- Demolition underway of conveyor system used to move magnesium between C-340 and the C-340-D storage building
- Conveyor is 40 ft tall, 85 feet long, and 8 ft wide
- Demolition began this week



The conveyor before removal work began





DOE Portsmouth/Paducah Project Office