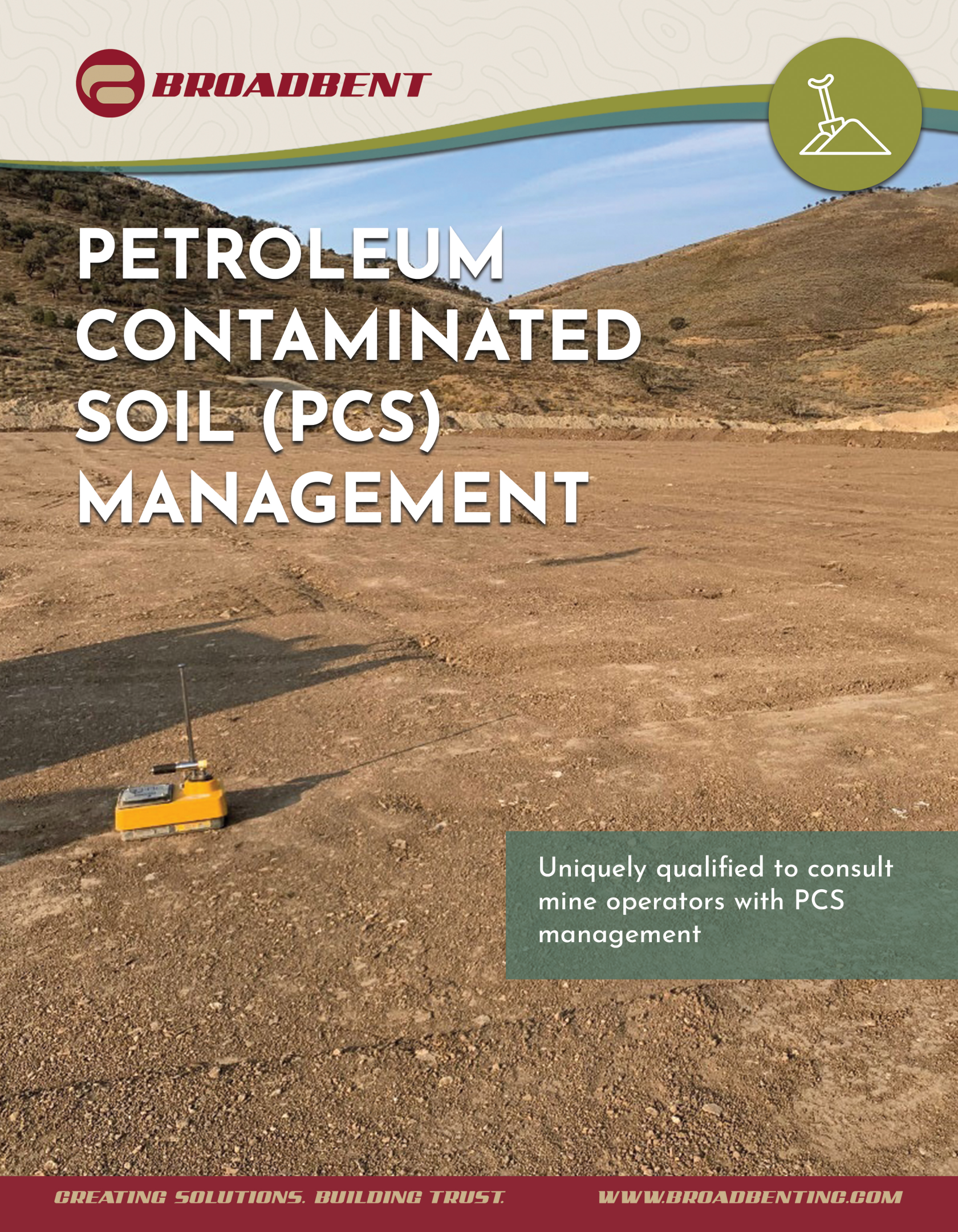
BROADBENT

PETROLEUM CONTAMINATED SOIL (PCS) MANAGEMENT



Uniquely qualified to consult mine operators with PCS management

PETROLEUM CONTAMINATED SOIL (PCS) MANAGEMENT

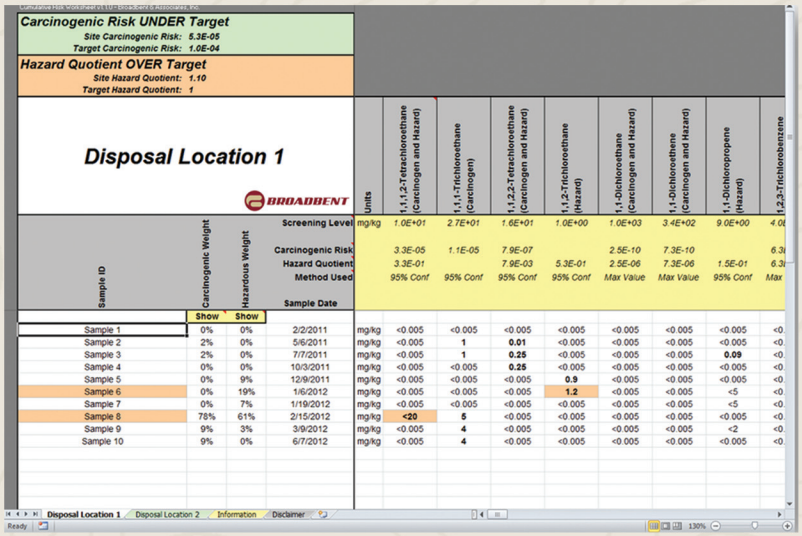
CAPABILITY STATEMENT

Working with industry, the Nevada Mining Association, and the Nevada Division of Environmental Protection (NDEP), Broadbent designed the framework for PCS management at mines in Nevada which was used by NDEP to prepare their Guidance for Mine-Site Petroleum-Contaminated Soil (PCS) Management Plans. Broadbent is uniquely qualified to consult mine operators with PCS management based on this experience.

Among our many solutions, Broadbent developed a tool specifically designed for mine operators to manage PCS. This tool is available to our clients and is used to track PCS analytical data, compare data with screening levels, calculate cumulative risk, and simplify decisions related to PCS placement.

SERVICES

- Disposal location evaluation and closure
- Hazardous waste determination
- Management plans
- Risk assessment
- Screening level development
- Source evaluation and sampling
- Spreadsheet tracking tool



Carcinogenic Risk UNDER Target
Site Carcinogenic Risk: 5.3E-05
Target Carcinogenic Risk: 1.0E-04

Hazard Quotient OVER Target
Site Hazard Quotient: 1.10
Target Hazard Quotient: 1

Disposal Location 1

Sample ID	Carcinogenic Weight	Hazardous Weight	Sample Date	Units	1,1,1,2-Tetrachloroethane (Carcinogen and Hazard)	1,1,1-Trichloroethane (Carcinogen)	1,1,2,2-Tetrachloroethane (Carcinogen and Hazard)	1,1,2-Trichloroethane (Hazard)	1,1-Dichloroethane (Carcinogen and Hazard)	1,1-Dichloroethene (Carcinogen and Hazard)	1,1-Dichloropropene (Hazard)	1,2,3-Trichlorobenzene
			Screening Level	mg/kg	1.0E+01	2.7E+01	1.6E+01	1.0E+00	1.0E+03	3.4E+02	9.0E+00	4.0
			Carcinogenic Risk		3.3E-05	1.1E-05	7.9E-07		2.5E-10	7.3E-10		6.3
			Hazard Quotient		3.3E-01		7.9E-03	5.3E-01	2.5E-06	7.3E-06	1.5E-01	6.3
			Method Used		95% Conf	95% Conf	95% Conf	95% Conf	Max Value	Max Value	95% Conf	Max
	Show	Show										
Sample 1	0%	0%	2/2/2011	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.
Sample 2	2%	0%	5/6/2011	mg/kg	<0.005	1	0.01	<0.005	<0.005	<0.005	<0.005	<0.
Sample 3	2%	0%	7/7/2011	mg/kg	<0.005	1	0.25	<0.005	<0.005	<0.005	0.09	<0.
Sample 4	0%	0%	10/3/2011	mg/kg	<0.005	<0.005	0.25	<0.005	<0.005	<0.005	<0.005	<0.
Sample 5	0%	9%	12/9/2011	mg/kg	<0.005	<0.005	<0.005	0.9	<0.005	<0.005	<0.005	<0.
Sample 6	0%	19%	1/6/2012	mg/kg	<0.005	<0.005	<0.005	1.2	<0.005	<0.005	<5	<0.
Sample 7	0%	7%	1/19/2012	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<5	<0.
Sample 8	75%	61%	2/15/2012	mg/kg	<20	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.
Sample 9	9%	3%	3/9/2012	mg/kg	<0.005	4	<0.005	<0.005	<0.005	<0.005	<2	<0.
Sample 10	9%	0%	6/7/2012	mg/kg	<0.005	4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.

Disposal Location 1 | Disposal Location 2 | Information | Disclaimer

Broadbent's PCS Management Tool

CONTACT INFORMATION

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