



Date of Issue: 07/21/2018 04:06:39

DEP Bureau of Laboratories - Harrisburg
P.O. Box 1467
2575 Interstate Drive
Harrisburg, PA 17105-1467

Contact Phone Number: (717) 346-7200

NELAP - accredited by

NJ DEP - Laboratory Number: PA059
PA DEP LAP - DEP Lab ID: 22-00223

Analytical Report For
Abandoned Mine Reclamation

Sample ID: 7135 010

Date Collected: 06/06/2018 10:20:00 AM

Lab Sample ID: O2018003621

Status: Completed

Name of Sample Collector: Joseph S Kasulaitis

Date Received: 06/07/2018

County: Berks

State:

Municipality: Windsor Twp

MP ID: SOIL4 158460

MP Type: Impoundment

MP Location Description: Soil from Point 4

* Alias ID	Project / Facility
SOIL4	KERNSVILLE

Sample Medium: Soil

Sample Medium Type: Soil

Location: NOT INDICATED

Reason: Routine Sampling

Project: KERNSVILLE Kernsville Dam

Suite: SV-SW

Matrix: Soil

Stream Condition:

Sample Comment: Schuylkill River

Sample Lab Comment: Endrin and/or DDT breakdown exceeds limits This sample contains the following Tentatively Identified Compounds: hexadecenoic and hexadecanoic acids and their methyl esters; diphenyl sulfone; phytol; cholesterol; sitosterol; amyirin; lupeol; friedelanone.

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Test Codes / CAS # - Description	Reported Results	Date And Time Analyzed	Approved by	Test Method
95943 1,2,4,5-Tetrachlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
120821 1,2,4-Trichlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
95501 1,2-Dichlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
541731 1,3-Dichlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
99650 1,3-Dinitrobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
106467 1,4-Dichlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
130154 1,4-Naphthoquinone	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
90131 1-Chloronaphthalene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
90120 1-Methylnaphthalene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
108-60-1 2,2'-oxybis(1-Chloropropane)	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
58902 2,3,4,6-Tetrachlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
95954 2,4,5-Trichlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
88062 2,4,6-Trichlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
120832 2,4-Dichlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
105679 2,4-Dimethylphenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
Low-level LFB recovery low. Results and/or reporting limit may be biased low.				
51285 2,4-Dinitrophenol	3.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
121142 2,4-Dinitrotoluene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
87650 2,6-Dichlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
606202 2,6-Dinitrotoluene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
53963 2-Acetylaminofluorene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
91587 2-Chloronaphthalene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
95578 2-Chlorophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
91576 2-Methylnaphthalene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
95487 2-Methylphenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
88744 2-Nitroaniline	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
88755 2-Nitrophenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
109068 2-Picoline (2-Methylpyridine)	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
1319773 3&4-Methylphenol	1.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
91941 3,3'-Dichlorobenzidine	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
99092 3-Nitroaniline	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
534521 4,6-Dinitro-2-methylphenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
92671 4-Aminobiphenyl	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
101553 4-Bromophenyl-phenyl ether	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
59507 4-Chloro-3-methylphenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D

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106478 4-Chloroaniline	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
7005723 4-Chlorophenyl-phenyl ether	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
100016 4-Nitroaniline	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
100027 4-Nitrophenol	3.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
99558 5-Nitro-o-toluidine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
83329 Acenaphthene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
208968 Acenaphthylene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
98862 Acetophenone	1.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
62533 Aniline	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
120127 Anthracene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
140578 Aramite	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
98555 a-Terpineol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
56553 Benz(a)anthracene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
50328 Benzo(a)pyrene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
205992 Benzo(b)fluoranthene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
** Comment ** Includes benzo(j)fluoranthene				
191242 Benzo(g,h,i)perylene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
207089 Benzo(k)fluoranthene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
100516 Benzyl alcohol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
111911 bis(2-Chloroethoxy)methane	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
111444 bis(2-Chloroethyl)ether	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
117817 bis(2-Ethylhexyl)phthalate	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
85687 Butylbenzylphthalate	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
510156 Chlorobenzilate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
218019 Chrysene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
2303164 Diallate (Cis & Trans)	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
53703 Dibenzo(a,h)anthracene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
132649 Dibenzofuran	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
84662 Diethylphthalate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
60515 Dimethoate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
60117 Dimethylaminoazobenzene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
131113 Dimethylphthalate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
84742 Di-n-butylphthalate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
117840 Di-n-octylphthalate	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
88857 Dinoseb	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D

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122394 Diphenylamine&n-Nitrosodipheny	1.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
298044 Disulfoton	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
62500 Ethyl methanesulfonate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
56382 Ethyl Parathion	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
EXTRACTED DATE	06192018 Day	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
206440 Fluoranthene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
86737 Fluorene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
118741 Hexachlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
87683 Hexachlorobutadiene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
77474 Hexachlorocyclopentadiene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results and/or reporting limits may be biased low.				
67721 Hexachloroethane	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results and/or reporting limits may be biased low.				
1888717 Hexachloropropene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
Continuing calibration recoveries low. Results and/or reporting limits may be biased low.				
193395 Indeno-1,2,3-cd-pyrene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
465736 Isodrin	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
78591 Isophorone	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
120581 Isosafrole	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
66273 Methyl Methanesulfonate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
298000 Methyl Parathion	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
91203 Naphthalene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
98953 Nitrobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
924163 N-Nitrosodibutylamine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
55185 N-Nitrosodiethylamine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
62759 N-Nitrosodimethylamine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
621647 N-Nitrosodipropylamine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
10595956 N-Nitrosomethylethylamine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
59892 N-Nitrosomorpholine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
100754 N-nitrosopiperidine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
930552 N-Nitrosopyrrolidine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
126681 O,O,O-Triethylphosphorothioate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
95534 o-Toluidine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
76017 Pentachlorethane	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
608935 Pentachlorobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
82688 Pentachloronitrobenzene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D

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87865 Pentachlorophenol	1.4 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
85018 Phenanthrene	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
108952 Phenol	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
298022 Phorate	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
23950585 Pronamide	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
129000 Pyrene	0.34 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
110861 Pyridine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
94597 Safrole	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
3689245 Sulfotep	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D
297972 Thionazine	0.68 mg/kg (U)	06/28/2018 02:00 AM	CARWALTER	EPA 8270D

The results of the analyses provided in this laboratory report relate only to the sample(s) identified therein. Unless otherwise noted, the results presented on this laboratory report meet all requirements of the 2009 TNI standard. Sample was in acceptable condition when received by the Laboratory. Any exceptions are noted in the report.

* denotes tests that the laboratory is not accredited for

Taru Upadhyay, Technical Director, Bureau of Laboratories

ORGANICS LABORATORY QUALIFIERS

U - Indicates analysis was performed for the compound but it was not detected. The sample quantitation limit is reported.

J - Indicates an estimated value, below the quantitation limit, but above the method detection limit.

N - Indicates presumptive evidence of a compound.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.

P - This flag is used with a target analyte when there is greater than a 40% difference between the results obtained from the primary and confirmation columns for dual column analysis methods (e.g. pesticides, triazines, PCBs, etc)

Q - This flag identifies the average of multiple results from multiple analyses, or the average of the averages of dual column analysis methods.

X - Non-target analytes co-elute with compound. Identification unable to be confirmed.