

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
HOLLY SPRINGS	Cumulic Haplaquolls	INSAK	Typic Tropaquents
HOLOPAW	Grossarenic Ochraqualfs	IPSWICH	Typic Sulfihemists
HOMOSASSA	Typic Sulfaquents	IRIM	Typic Haplaquolls
HONTOON (DR)	Typic Medisaprists	IROQUOIS (DR)	Typic Argiaquolls
HOODOO	Mollic Andaquepts	ISAN (DR)	Typic Haplaquolls
HOOSIERVILLE	Typic Ochraqualfs	ISANTI (DR)	Typic Haplaquolls
HOUGHTON (DR)	Typic Medisaprists	ISLES	Arenic Ochraqualfs
HOUK	Argiaquic Xeric Argialbolls	ISTOKPOGA	Typic Medihemists
HOULKA (FF)	Vertic Haplaquepts	IVIE	Torriorthentic Haploxerolls
HOVDE	Typic Psammaquents	JACKPORT	Vertic Ochraqualfs
HOVEN	Typic Natraquolls	JACOB	Vertic Haplaquepts
HOVERT	Aquic Natrargids	JACOBSEN	Histic Cryaquepts
HOYTVILLE	Mollic Ochraqualfs	JAMES	Cumulic Haplaquolls
HUEY	Typic Natraqualfs	JAMESTON	Typic Argiaquolls
HUICHICA (P)	Abruptic Haplic Durixeralfs	JAREALES	Thapto-Histic Tropic Fluvaquents
HUMBOLDT	Fluvaquentic Haplaquolls	JAROLA	Typic Argialbolls
HUMESTON	Argiaquic Argialbolls	JARRON	Typic Natraqualfs
HUNCHBACK	Cumulic Cryaquolls	JASCO	Typic Fragiaqualfs
HUSSA	Fluvaquentic Haplaquolls	JEDDO (DR)	Aeric Ochraqualfs
HYDABURG	Lithic Cryohemists	JEFFERS	Typic Haplaquolls
HYDE (DR)	Typic Umbraquults	JENA (FF)	Fluventic Dystrochrepts
IBERIA	Vertic Haplaquolls	JOENEY	Typic Sideraquods
ICARIA (DR)	Typic Umbraquults	JOHNSTON (DR)	Cumulic Humaquepts
ICENE	Aquic Camborthids	JOICE	Typic Medisaprists
ICESLEW	Typic Haplaquepts	JOLIET	Lithic Haplaquolls
IGUALDAD	Typic Tropaquepts	JOSEPH	Aquic Xerofluvents
IJAM	Vertic Fluvaquents	JUBILEE	Typic Haplaquolls
ILACHETOMEL	Typic Sulfihemists	JUDICE	Vertic Haplaquolls
ILION	Mollic Ochraqualfs	JUNTURA	Cumulic Haplaquolls
IMMOKALEE	Arenic Haplaquods	JUPITER	Lithic Haplaquolls
INCELL	Cumulic Haplaquolls	JURVANNAH	Typic Cryaquents
INEZ	Typic Albaqualfs	KADE	Typic Cryaquents
INKOM	Cumulic Haplaquolls	KAIKLI	Lithic Cryosaprists
INKOSR	Typic Tropaquepts	KALIFONSKY	Typic Cryaquepts
INMACHUK	Pergelic Cryofibrists	KALIGA	Terric Medisaprists

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
KALMARVILLE	Mollic Fluvaquents	KIMMERLING	Cumulic Haplaquolls
KALOKO	Typic Calciaquolls	KINA	Typic Cryohemists
KALONA	Typic Haplaquolls	KINDER	Typic Glossaqualfs
KAMAN	Typic Pelluderts	KINGILE	Terric Medisaprists
KANAPAHA	Grossarenic Paleaquults	KINGMAN	Fluvaquentic Haplaquolls
KANEBREAK	Cumulic Haplaquolls	KINGS (DR)	Vertic Haplaquolls
KANONA	Aeric Haplaquepts	KINGSLAND	Typic Medihemists
KANTISHNA	Hydric Borofibrists	KINGSVILLE (DR)	Mollic Psammaquents
KANUTCHAN	Typic Pelloxererts	KINKORA	Typic Ochraqults
KANZA	Mollic Psammaquents	KINROSS (DR)	Typic Haplaquods
KARANKAWA	Typic Haplaquents	KINSMAN (DR)	Aeric Haplaquods
KARHEEN	Typic Cryosaprists	KINSTON (DR)	Typic Fluvaquents
KARLUK	Typic Cryaquepts	KIRK	Andic Cryaquepts
KARNAK	Vertic Haplaquepts	KIZHUYAK	Andaqueptic Cryaquepts
KARSHNER	Pergelic Cryaquepts	KJAR	Histic Humaquepts
KATO (DR)	Typic Haplaquolls	KLABER	Typic Glossaqualfs
KAUFMAN	Typic Pelluderts	KLAMATH	Cumulic Cryaquolls
KEALIA	Typic Salorthids	KLANELNEECHENA	Histic Pergelic Cryaquepts
KEANSBURG	Typic Umbraquults	KLAWASI	Histic Pergelic Cryaquepts
KEECHI	Typic Fluvaquents	KNIGHT	Argiaquic Argialbolls
KENNER	Fluvaquentic Medisaprists	KNOKE (DR)	Cumulic Haplaquolls
KENUSKY	Umbric Paleaquults	KOBEL	Vertic Haplaquepts
KEOWNS (DR)	Mollic Haplaquepts	KOGISH	Typic Sphagnofibrists
KERSTON (DR)	Fluvaquentic Medisaprists	KOKOMO	Typic Arglaquolls
KESSON	Typic Pasammaquents	KOLLS	Vertic Haplaquolls
KESTERSON	Glossic Natraqualfs	KOLLUTUK	Pergelic Ruptic-Histic Cryaquepts
KETONA	Vertic Ochraqualfs	KOOLAU	Plinthic Trophaquepts
KEYESPOINT (FF)	Vertic Haplaquepts	KOSMOS	Typic Humaquepts
KEZAN	Mollic Fluvaquents	KOSSUTH	Typic Haplaquolls
KIAN	Aeric Fluvaquents	KOTO	Typic Natraqualfs
KILGORE	Cumulic Cryaquolls	KOURY (FF)	Fluvaquentic Dystrochrepts
KILLBUCK	Typic Fluvaquents	KOVICH	Cumulic Haplaquolls
KILLEY	Typic Cryaquepts	KRATKA (DR)	Typic Haplaquolls
KILMANAGH (DR)	Aeric Haplaquepts	KUSKOKWIM	Histic Pergelic Cryaquepts
KILWINNING	Vertic Ochraqualfs	KUSLINA	Histic Pergelic Cryaquepts

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Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
KYDAKA	Typic Humaquepts	LAWET	Typic Calciaquolls
LABISH	Cumulic Humaquepts	LAWNWOOD	Aeric Haplaquods
LABOUNTY	Typic Humaquepts	LAWSON (FF)	Cumulic Hapludolls
LACAMAS	Typic Glossaqualfs	LEAF	Typic Albaquults
LACERDA	Aquentic Chromuderts	LEAGUEVILLE	Arenic Paleaquults
LACHAPELLA	Typic Cryaquepts	LEAKSVILLE	Typic Albaqualfs
LACOCHEE	Spodic Psammaquents	LEBEAU	Aquentic Chromuderts
LACOTA (DR)	Mollic Haplaquepts	LEDWITH	Mollic Albaqualfs
LAFITTE	Typic Medisaprists	LEE	Typic Fluvaquents
LAGRANGE	Typic Ochraqualfs	LEICESTER	Aeric Haplaquepts
LAHRITY	Mollic Haplaquepts	LEMETA	Pergelic Cryofibrists
LAJARA	Typic Haplaquolls	LEMOLO	Typic Humaquepts
LAKE CHARLES	Typic Pelluderts	LEMOND (DR)	Typic Haplaquolls
LAKEMONT	Udollic Ochraqualfs	LENA (DR)	Typic Medisaprists
LAKESHORE	Typic Salorthids	LENAWEE (DR)	Mollic Haplaquepts
LALLIE (DR)	Typic Fluvaquents	LENOIR (FF)	Aeric Paleaquults
LAM	Fluvaquentic Haplaquolls	LEON	Aeric Haplaquods
LAMINGTON	Typic Fragiaquults	LEONARD	Vertic Ochraqualfs
LAMO	Cumulic Haplaquolls	LEONARDTOWN	Typic Fragiaquults
LAMOOSE	Typic Haplaquolls	LETON	Typic Glossaqualfs
LAMOURE (DR)	Cumulic Haplaquolls	LETRI	Typic Haplaquolls
LAMSON (DR)	Aeric Haplaquepts	LEVASY	Fluvaquentic Haplaquolls
LANEXA	Terric Medisaprists	LEVELTON	Typic Haplaquepts
LANG (FF)	Typic Psammaquents	LEVY	Typic Hydraquents
LANGLOIS	Tropic Fluvaquents	LICKDALE	Humic Haplaquepts
LANTON (DR)	Cumulic Haplaquolls	LIDDELL (DR)	Typic Haplaquepts
LANTZ	Typic Umbraqualfs	LIGHTNING	Typic Ochraqualfs
LANYON	Typic Haplaquolls	LILBOURN	Aeric Fluvaquents
LAROSE	Typic Hydraquents	LIM (DR)	Aeric Fluvaquents
LARRY	Typic Haplaquolls	LIMERICK	Typic Fluvaquents
LATAHCO	Argiaquic Xeric Argialbolls	LINDAAS (DR)	Typic Argiaquolls
LATHER	Limnic Borohemists	LINWOOD (DR)	Terric Medisaprists
LATTY	Typic Haplaquepts	LIPAN	Entic Pellusterts
LAUDERHILL (DR)	Lithic Medisaprists	LIPPINCOTT	Typic Argiaquolls
LAUGENOUR (FF)	Aeric Fluvaquents	LISCO	Typic Halaquepts

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Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
LITRO	Vertic Haplaquepts	MACKEN	Vertic Haplaquolls
LIVIA	Typic Natraqualfs	MADALIN	Mollic Ochraqualfs
LIVINGSTON (DR)	Mollic Haplaquepts	MADELIA	Typic Haplaquolls
LOBO	Hemic Sphagnofibrists	MAGNA	Typic Calciaquolls
LOCODA	Typic Fluvaquents	MAGOTHA	Typic Natraqualfs
LOGAN	Typic Calciaquolls	MAHALASVILLE (DR)	Typic Argiaquolls
LOGY (FF)	Torrifluventic Haploxerolls	MAHTOWA (DR)	Typic Haplaquolls
LOKOSEE	Grossarenic Ochraqualfs	MALABAR	Grossarenic Ochraqualfs
LOLAK	Typic Halaquepts	MANAHAWKIN	Terric Medisaprists
LOMALTA	Udorthentic Pellusterts	MANATEE	Typic Argiaquolls
LORAIN (DR)	Mollic Ochraqualfs	MANFRED (DR)	Typic Natraquolls
LOTUS	Aquic Quartzipsamments	MANN (DR)	Typic Haplaquolls
LOUGHBORO	Aeric Glossaqualfs	MANSFIELD	Typic Fragiaquepts
LOUIN	Aquentic Chromuderts	MARCUS	Typic Haplaquolls
LOUP	Typic Haplaquolls	MARCUSE	Vertic Haplaquepts
LOVELAND	Fluvaquentic Haplaquolls	MARCY	Typic Fraquiaquepts
LOVELOCK	Fluvaquentic Haplaquolls	MARENGO	Typic Argiaquolls
LOWS (DR)	Mollic Haplaquepts	MARGATE	Mollic Psammaquents
LOXLEY (DR)	Typic Borosaprists	MARIA (FF)	Typic Haplaquepts
LOYSVILLE	Typic Fragiaqualfs	MARKES	Typic Ochraqualfs
LUDDEN (DR)	Vertic Haplaquolls	MARKEY (DR)	Terric Borosaprists
LUFKIN	Vertic Albaqualfs	MARLA	Aquic Cryumbrepts
LUMBEE (DR)	Typic Ochraquults	MARLAKE	Mollic Fluvaquents
LUMMI	Fluvaquentic Haplaquolls	MARNA	Typic Haplaquolls
LUNCH	Terric Cryochemists	MARSHAN (DR)	Typic Haplaquolls
LUPTON (DR)	Typic Borosaprists	MARSHBROOK	Cumulic Haplaquolls
LURA (DR)	Cumulic Haplaquolls	MARSHDALE	Cumulic Haplaquolls
LURAY	Typic Argiaquolls	MARSHFIELD (DR)	Typic Ochraqualfs
LUTE (P)	Typic Natraquolls	MARTEL	Typic Umbraqualfs
LUTON	Vertic Haplaquolls	MARTIN PENA	Tropic Fluvaquents
LYLES	Typic Haplaquolls	MARTISCO	Histic Humaquepts
LYME (DR)	Aeric Haplaquepts	MARYSLAND (DR)	Typic Calciaquolls
LYNN HAVEN	Typic Haplaquods	MASCOTTE	Ultic Haplaquods
LYNNE	Ultic Haplaquods	MASHULAVILLE	Typic Fragiaquults
LYONS (DR)	Mollic Haplaquepts	MASONTOWN	Cumulic Humaquepts

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Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
MASSENA	Aeric Haplaquepts	MEIKLE	Typic Albaqualfs
MASSIE	Typic Argialbolls	MELHOMES	Humaqueptic Psammaquents
MATAGORDA	Typic Natraqualfs	MELTON	Humic Cryaquepts
MATHISTON	Aeric Fluvaquents	MELVIN	Typic Fluvaquents
MATTAMUSKEET (DR)	Terric Medisaprists	MENASHA (DR)	Typic Haplaquolls
MATTAN	Terric Medisaprists	MENDELINA	Histic Pergelic Cryaquepts
MATUNUCK	Typic Sulfaquents	MENDENHALL	Cumulic Cryaquolls
MAUMEE (DR)	Typic Haplaquolls	MENLO	Histic Humaquepts
MAUREPAS	Typic Medisaprists	MERCEDES (F)	Udorthentic Pellusterts
MAURERTOWN	Typic Ochraqualfs	MERDEN	Fluvaquentic Haplaquolls
MAVIE	Typic Calciaquolls	MERMENTAU	Aeric Haplaquepts
MAXCREEK	Typic Haplaquolls	MERMILL (DR)	Mollic Ochraqualfs
MAXFIELD	Typic Haplaquolls	MERWIN (DR)	Terric Borochemists
MAYBESO	Terric Cryosaprists	MESEI	Terric Troposaprists
MAYBID	Typic Humaquepts	MHOON	Typic Fluvaquents
MAYER (DR)	Typic Haplaquolls	MICCO	Terric Medifibrists
MAYHEW	Vertic Ochraqualfs	MIDLAND	Typic Ochraqualfs
MAZASKA	Typic Argiaquolls	MILFORD (DR)	Typic Haplaquolls
MCCLEARY	Aeric Fluvaquents	MILLERVILLE (DR)	Limnic Borochemists
MCCOLL (DR)	Typic Fragiaquolls	MILLGROVE	Typic Argiaquolls
MCCRORY	Albic Glossic Natraqualfs	MILLINGTON (DR)	Cumulic Haplaquolls
MCCUNE	Aeric Glossaqualfs	MILLSDALE	Typic Argiaquolls
MCDONALDSVILLE	Typic Haplaquolls	MINER	Mollic Ochraqualfs
MCFAIN (DR)	Fluvaquentic Haplaquolls	MINNETONKA (DR)	Typic Argiaquolls
MCGEHEE	Aeric Ochraqualfs	MINNEWAUKAN	Typic Psammaquents
MCGIRK	Typic Ochraqualfs	MINNIECE	Typic Umbraqualfs
MCGUFFEY	Histic Humaquepts	MINOCQUA (DR)	Mollic Haplaquepts
MCKEE	Typic Hydraquents	MINTER (FF)	Typic Ochraqualfs
MCKENNA	Mollic Haplaquepts	MITCH (F)	Cumulic Haploborolls
MCKENSIE	Typic Haplaquepts	MOAG	Typic Fluvaquents
MCMURRAY	Typic Medihemists	MOLAS	Typic Argialbolls
MEDANO	Typic Haplaquolls	MOLLVILLE	Typic Glossaqualfs
MEDFRA	Histic Pergelic Cryaquepts	MONARDA (DR)	Aeric Fragiaquepts
MEDOMAK	Fluvaquentic Humaquepts	MONEE	Mollic Ochraqualfs
MEGGETT (DR)	Typic Albaqualfs	MONITEAU	Typic Ochraqualfs

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
MONROEVILLE (DR)	Typic Argiaquolls	NACLINA	Aquentic Chromuderts
MONTEOCHA	Ultic Haplaquods	NADA	Typic Albaqualfs
MONTGOMERY (DR)	Typic Haplaquolls	NAHATCHE	Aeric Fluvaquents
MONTVERDE	Typic Medifibrists	NAHMA (DR)	Histic Humaquepts
MOOREVILLE (FF)	Fluvaquentic Dystrochrepts	NAKINA (DR)	Typic Umbraqualfs
MOOSE RIVER	Typic Cryaquents	NAKNEK	Histic Pergelic Cryaquepts
MOOSELAKE (DR)	Typic Borohemists	NANIAK	Typic Sulfaquents
MOOSILAUKE (DR)	Aeric Haplaquepts	NAPA	Typic Natraquolls
MORALES	Aeric Glossaqualfs	NAPOLEON	Typic Medihemists
MORELAND (FF)	Vertic Hapludolls	NARROWS	Calcic Cryaquolls
MOREY	Typic Argiaquolls	NARTA	Typic Natraqualfs
MORPH (DR)	Typic Glossaqualfs	NASKEAG	Aeric Haplaquods
MOSLANDER	Typic Cryaquolls	NASS	Typic Haplaquents
MOULTRIE	Spodic Psammaquents	NATAL	Umbric Ochraqualfs
MOUNDPRAIRIE	Mollic Fluvaquents	NATROY	Aquic Chromoxererts
MOUNTAINVIEW	Fluvaquentic Medisaprists	NAVAJO	Vertic Torrifluvents
MOUNTMED		NAVAN (DR)	Typic Argiaquolls
MOWATA	Typic Glossaqualfs	NAWNEY	Typic Fluvaquents
MOYINA	Andic Cryaquepts	NELSE (FF)	
MUCKALEE	Typic Fluvaquents	NEMAH	Humic Haplaquepts
MUDSOCK	Mollic Haplaquepts	NESS	Udic Pellusterts
MUKILTEO	Typic Medihemists	NETTLES	Alfic Arenic Haplaquods
MULAT	Arenic Ochraquults	NEVERSINK	Aeric Haplaquepts
MULDROW	Typic Argiaquolls	NEWALBIN	Typic Fluvaquents
MULLICA	Typic Humaquepts	NEWARK (P)	Aeric Fluvaquents
MULLINS	Typic Fragiaquults	NEWBERG	Fluventic Haploxerolls
MUNSET	Ultic Haploxeraifs	NEWBERRY	Mollic Ochraqualfs
MURVILLE	Typic Haplaquods	NEWELLTON (FF)	Aeric Fluvaquents
MUSKEGO (DR)	Limnic Medisaprists	NEWSON (DR)	Humaqueptic Psammaquents
MUSSEY (DR)	Typic Argiaquolls	NEWTON (DR)	Typic Humaquepts
MUSTANG	Typic Psammaquents	NGERUNGOR	Typic Sulfihemists
MYAKKA	Aeric Haplaquods	NIKFUL	Aquiltic Hapludalfs
MYATT (DR)	Typic Ochraquults	NIKOLAI (DR)	Terric Borosaprists
MYRICK (DR)	Fluvaquentic Haplaquolls	NIMMO (DR)	Typic Ochraquults
NABESNA	Histic Pergelic Cryaquepts	NIOTA	Mollic Albaqualfs

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
NISHNA	Cumulic Haplaquolls	OKOBOJI	Cumulic Haplaquolls
NISHON (DR)	Typic Albaqualfs	OLASHES (FF)	Mollic Haploxeralfs
NITTAW	Typic Argiaquolls	OLBUT	Abruptic Argiaquolls
NOKASIPPI	Typic Haplaquolls	OLDHAM (DR)	Cumulic Haplaquolls
NOLIN (FF)	Dystric Fluventic Eutrochrepts	OLDS	Andic Cryaquepts
NOLO	Typic Fragiaquults	OLDSMAR	Alfic Arenic Haplaquods
NOME	Pergelic Cryaquepts	OLENO	Vertic Haplaquepts
NOOKACHAMPS	Typic Fluvaquents	OLENTANGY (DR)	Histic Humaquepts
NORMA	Mollic Haplaquepts	OLMSTED	Mollic Ochraqualfs
NORTHCOTE (DR)	Vertic Haplaquolls	OLUSTEE	Ultic Haplaquods
NORTHWOOD (DR)	Histic Humaquepts	OMNI	Fluvaquentic Haplaquolls
NORWELL (DR)	Typic Fragiaquepts	ONA	Typic Haplaquods
NORWICH	Typic Fragiaquepts	ONTKO	Andic Cryaquepts
NOTI	Typic Humaquepts	OPELIKA	Mollic Albaqualfs
NOVARY	Cumulic Cryaquolls	OPENLAKE (FF)	Vertic Haplaquepts
NOVATO	Typic Hydraquents	ORCAS	Typic Sphagnofibrists
NUBY	Typic Fluvaquents	ORELIA (P)	Typic Ochraqualfs
NUGENT (FF)	Typic Udifluvents	ORIDIA	Aeric Fluvaquents
NUTALL	Mollic Albaqualfs	ORIO (DR)	Mollic Ochraqualfs
OAKHURST	Vertic Albaqualfs	ORWET (DR)	Typic Calciaquolls
OAKLIMETER (FF)	Fluvaquentic Dystrichrepts	OSAGE	Vertic Haplaquolls
OBANION	Aeric Halaquepts	OSHAWA	Cumulic Haplaquolls
OCHO	Haplic Nadurargids	OSIER (DR)	Typic Psammaquents
OCOEE	Terric Medifibrists	OSSIEN (DR)	Typic Haplaquolls
OCOSTA	Typic Fluvaquents	OSSIPEE (DR)	Terric Borohemists
ODENSON	Andaqueptic Haplaquolls	OSWALD (FF)	Aquic Chromoxererts
ODNE	Typic Ochraqualfs	OTHELLO	Typic Ochraquults
OGEECHEE (DR)	Typic Ochraquults	OTTER (DR)	Cumulic Haplaquolls
OGEMAW (DR)	Aquic Haplorthids	OUACHITA (FF)	Fluventic Dystrichrepts
OJATA	Typic Calciaquolls	OVERTON	Aeric Haplaquepts
OKANOGAN (FF)	Fluventic Haploxerolls	OWEGO	Mollic Fluvaquents
OKAW	Typic Albaqualfs	OZAMIS	Fluvaquentic Haplaquolls
OKEECHOBEE (DR)	Hemic Medisaprists	OZAN	Typic Glossaqualfs
OKEELANTA (DR)	Terric Medisaprists	OZIAS	Aeric Fluvaquents
OKLAWAHA	Terric Medifibrists	PAHOKEE	Lithic Medisaprists

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Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
PAHRANAGAT	Fluvaquentic Haplaquolls	PELHAM (DR)	Arenic Paleaquults
PAISLEY	Typic Albaqualfs	PELIC	Typic Fluvaquents
PALMAR	Typic Trophemists	PELLA (DR)	Typic Haplaquolls
PALMETTO	Grossarenic Paleaquults	PELLICER	Typic Sulfaquents
PALMS (DR)	Terric Medisaprists	PEMI (DR)	Typic Haplaquepts
PAMLICO (DR)	Terric Medisaprists	PENGILLY	Typic Fluvaquents
PANASOFFKEE	Arenic Ochraqualfs	PENNSUCO	Typic Fluvaquents
PANDORA	Typic Ochraqualfs	PEOGA	Typic Ochraqualfs
PANGBORN	Typic Medisaprists	PEOH	Cumulic Haplaquolls
PANSEY	Plinthic Paleaquults	PEONE	Andaqueptic Fluvaquents
PANTEGO (DR)	Umbric Paleaquults	PEORIA	Albic Glossic Natraqualfs
PANTHER	Typic Haplaquolls	PEOTONE (DR)	Cumulic Haplaquolls
PAPAGUA	Typic Albaqualfs	PEPPER	Alfic Haplaquods
PARANAT	Fluvaquentic Haplaquolls	PERCILLA	Aeric ochraqualfs
PAREHAT	Fluvaquentic Haploxerolls	PERCY (DR)	Typic Calciaquolls
PARENT (DR)	Typic Haplaquolls	PERELLA (DR)	Typic Haplaquolls
PARKHILL (DR)	Mollic Haplaquepts	PERQUIMANS (DR)	Typic Ochraquults
PARKWOOD	Mollic Ochraqualfs	PERRINE	Typic Fluvaquents
PARNELL (DR)	Typic Argiaquolls	PERRY	Vertic Haplaquepts
PARSIPPANY	Aeric Ochraqualfs	PESCADERO (FF)	Aquic Natrixeralfs
PARTLOW	Typic Ochraquults	PETEETNEET	Typic Medisaprists
PASCO	Cumulic Haplaquolls	PETROLIA (DR)	Typic Fluvaquents
PASQUETTI	Andaqueptic Haplaquolls	PETTIGREW (DR)	Histic Humaquepts
PASQUOTANK (DR)	Typic Haplaquepts	PEWAMO (DR)	Typic Argiaquolls
PATCHIN	Aeric Haplaquepts	PHILBON	Terric Medisaprists
PATTERSON	Aeric Ochraqualfs	PHOENIX	Entic Pelloxererts
PATTON (DR)	Typic Haplaquolls	PIASA	Mollic Natraqualfs
PAULDING	Typic Haplaquepts	PICKFORD	Aeric Haplaquepts
PAULINA	Fluvaquentic Haplaquolls	PICKNEY (DR)	Cumulic Humaquepts
PAWCATUCK	Typic Sulfihemists	PILINE	Aquic Chromoxererts
PAXICO	Aeric Fluvaquents	PILLSBURY (DR)	Aeric Haplaquepts
PAXVILLE (DR)	Typic Umbraquults	PINCONNING (DR)	Mollic Haplaquents
PEACHAM (DR)	Humic Fragiaquepts	PINEDA	Arenic Glossaqualfs
PECKISH	Typic Sulfaquents	PINELLAS	Arenic Ochraqualfs
PEDIGO (FF)	Cumulic Haploxerolls	PINHOOK (DR)	Mollic Ochraqualfs

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Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
PINNEBOG (DR)	Hemic Medisaprists	POUNCEY	Typic Albaquults
PINONES	Thapto-Histic Tropic Fluvaquents	POVERTY	Typic Haplaquepts
PIOPOLIS (DR)	Typic Fluvaquents	POY (DR)	Typic Haplaquolls
PIT (FF)	Chromic Pelloxererts	POYGAN (DR)	Typic Haplaquolls
PLACEDO	Typic Fluvaquents	PREAKNESS	Typic Humaquepts
PLACID	Typic Humaquepts	PREBISH (DR)	Typic Haplaquolls
PLANK	Typic Glossaqualfs	PROCHASKA (DR)	Fluvaquentic Haplaquolls
PLANKINTON (DR)	Typic Argialbolls	PROVO BAY	Typic Calciquolls
PLANTATION	Histic Humaquepts	PUERCO	Typic Torrerts
PLATTE	Mollic Fluvaquents	PUGET	Aeric Fluvaquents
PLAYMOOR	Cumulic Haplaquolls	PUNGO (DR)	Typic Medisaprists
PLEASANT (P)	Torrertic Argiustolls	PUNTA	Grossarenic Haplaquods
PLEINE	Histic Humaquepts	PURDY	Typic Ochraquults
PLEVNA	Fluvaquentic Haplaquolls	PUSHMATAHA	Aquic Udifluvents
PLUCK	Typic Fluvaquents	PUTNAM	Mollic Albaqualfs
PLUMMER (DR)	Grossarenic Paleaquults	PYBURN	Typic Umbraquults
POCATY	Typic Sulfihemists	PYWELL	Typic Borosaprists
POCOMOKE	Typic Umbraquults	QUAM (DR)	Cumulic Haplaquolls
POGANEAB	Typic Fluvaquents	QUARLES	Mollic Ochraqualfs
POLAWANA (DR)	Cumulic Humaquepts	QUINN	Typic Ochraqualfs
POMONA	Ultic Haplaquods	QUOSATANA	Fluvaquentic Humaquepts
POMPANO	Typic Psammaquents	RACOMBES	Pachic Argiustolls
PONZER (DR)	Terric Medisaprists	RACON (DR)	Typic Ochraqualfs
POOLER (DR)	Typic Ochraquults	RAFAEL	Typic Haplaquepts
POPASH	Typic Umbraqualfs	RAFTON	Typic Fluvaquents
POPHERS	Aeric Fluvaquents	RAGSDALE (DR)	Typic Argiaquolls
POPLE	Arenic Glossaqualfs	RAHAL	Arenic Albaqualfs
PORFIRIO	Aquic Calcicustolls	RAINS	Typic Paleaquults
PORRETT	Andaqueptic Ochraqualfs	RALSEN	Fluvaquentic Haplaquolls
PORTAGE	Vertic Haplaquolls	RAMELLI (FF)	Typic Haplaquolls
PORTAGEVILLE (DR)	Vertic Haplaquolls	RAMSDELL	Typic Haplaquepts
PORTLAND	Vertic Haplaquepts	RANDALL (DR)	Udic Pellusterts
PORTSMOUTH (DR)	Typic Umbraquults	RANDMAN	Argic Cryaquolls
POTTSBURG	Grossarenic Haplaquods	RANTOUL (DR)	Vertic Haplaquolls
POUJADE	Durixerollic Haplargids	RAPPAHANNOCK	Terric Sulfihemists

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
RAUVILLE	Cumulic Haplaquolls	ROANOKE (DR)	Typic Ochraquults
RAVENDALE	Entic Chromoxererts	ROBERTSVILLE	Typic Fragiaqualfs
RAYLAKE	Aquentic Chromuderts	ROBINSONVILLE (FF)	Typic Udifluvents
RAYNHAM (DR)	Aeric Haplaquepts	ROCKWELL	Typic Calciaquolls
RAYPOL	Aeric Haplaquepts	ROEBUCK (FF)	Vertic Hapludolls
REDCO	Aquentic Chromuderts	ROELLEN	Vertic Haplaquolls
REDDICK (DR)	Typic Haplaquolls	ROEMER	Arenic Ochraqualfs
REDLODGE	Cumulic Cryaquolls	ROETEX	Udertic Haplustolls
REED	Vertic Argiaquolls	ROLFE	Typic Argialbolls
REESVILLE	Aeric Ochraqualfs	ROLISS (DR)	Typic Haplaquolls
REGAL	Typic Haplaquolls	ROMEO	Lithic Haplaquolls
REGAN (DR)	Typic Calciaquolls	ROMNELL	Cumulic Haplaquolls
REMBERT (DR)	Typic Ochraquults	ROMULUS	Udolic Ochraqualfs
RENNIE	Mollic Fluvaquents	RONDEAU (DR)	Limnic Borosaprists
RENSSELAER (DR)	Typic Argiaquolls	ROOT	Mollic Fluvaquents
RENTON	Mollic Fluvaquents	ROPER (DR)	Histic Humaquepts
REPARADA	Tropic Fluvaquents	ROSANE	Typic Cryaquolls
RETROP	Aquic Udifluvents	ROSCOE	Typic Pellusterts
REVERE	Typic Calciaquolls	ROSCOMMON (DR)	Mollic Psammaquents
REXFORD	Aeric Fragiaquepts	ROSE CREEK	Fluvaquentic Haploxerolls
REYES (F)	Sulfic Fluvaquents	ROSEBLOOM	Typic Fluvaquents
RIB (DR)	Mollic Haplaquepts	ROSEDHU (DR)	Typic Haplaquods
RICCO	Fluvaquentic Haplaquolls	ROSELLA	Albic Glossic Natraqualfs
RICEBORO (DR)	Arenic Paleaquults	ROSEWOOD (DR)	Typic Calciaquolls
RIDOTT	Mollic Ochraqualfs	ROSHE SPRINGS	Typic Calciaquolls
RIFLE (DR)	Typic Borohemists	ROUNDBABOUT (DR)	Aeric Haplaquepts
RIGOLETTE	Typic Ochraqualfs	ROUNDHEAD (DR)	Histic Humaquepts
RINDGE	Typic Medisaprists	ROUTON	Typic Ochraqualfs
RIO	Typic Argiaquolls	ROWE	Typic Argiaquolls
RIPPOWAM (DR)	Aeric Fluvaquents	ROXANA (FF)	Typic Udifluvents
RITA	Typic Fluvaquents	ROXTON	Vertic Haplaquolls
RITZ	Typic Fluvaquents	RUARK	Typic Ochraqualfs
RIVIERA	Arenic Glossaqualfs	RUBIO	Mollic Albaqualfs
RIVRA (FF)	Ustic Torrifluvents	RUMNEY	Aeric Fluvaquents
RIZ	Typic Natrixeralfs	RUNEBERG (DR)	Typic Haplaquolls

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
RUSCO (P)	Aquic Argiustolls	SARPY	Typic Udipsamments
RUSE	Lithic Haplaquepts	SATILLA	Thapto-Histic Fluvaquents
RUSHMORE (DR)	Typic Haplaquolls	SAUCEL	Typic Salorthids
RUSHVILLE	Typic Albaqualfs	SAUGATUCK (DR)	Aeric Haplaquods
RUTLEGE (DR)	Typic Humaquepts	SAULICH	Histic Pergelic Cryaquepts
RYAN	Typic Natraquolls	SAUNDERS	Aeric Calciquolls
SABLE (DR)	Typic Haplaquolls	SAUVIE	Fluvaquentic Haplaquolls
SACO	Fluvaquentic Haplaquolls	SAWATCH	Histic Haplaquolls
SACRAMENTO (FF)	Vertic Haplaquolls	SAWMILL (DR)	Cumulic Haplaquolls
SAGANING (DR)	Aeric Haplaquepts	SAWTELPEAK	Typic Cryaquolls
SAGE	Typic Fluvaquents	SAYERS (FF)	Typic Ustifluvents
SAGO (DR)	Histic Humaquepts	SCANTIC (DR)	Typic Haplaquepts
SALADAR	Fluvaquentic Troposaprists	SCARBORO	Histic Humaquepts
SALADON	Typic Cryaquolls	SCATLAKE	Typic Hydraquents
SALAMATOF	Spagnic Borofibrists	SCHERRARD	Natric Duraquolls
SALERNO	Grossarenic Haplaquods	SCHOOLEY	Andaqueptic Fluvaquents
SALINAS (FF)	Pachic Haploxerolls	SCHRADER	Cumulic Haplaquolls
SALMO	Cumulic Haplaquolls	SCITICO	Typic Haplaquepts
SALT LAKE	Typic Calciquolls	SCOGGIN	Typic Ochraqualts
SALTAIR	Typic Salorthids	SCOTT (DR)	Typic Argialbolls
SALTERY	Fluvaquentic Cryofibrists	SCUPPERNONG (DR)	Terric Medisaprists
SALTESE	Typic Medisaprists	SEARSPORT	Typic Psammaquents
SALZER	Vertic Haplaquepts	SEASTRAND	Terric Medihemists
SAMBA	Typic Umbraqualfs	SEATTLE	Typic Medihemists
SAMISH	Typic Fluvaquents	SEBAGO	Fibric Borochemists
SAMMAMISH	Fluvaquentic Humaquepts	SEBEWA (DR)	Typic Argiaquolls
SAMPSEL	Typic Argiaquolls	SEBRING	Typic Ochraqualfs
SAMSULA (DR)	Terric Medisaprists	SEELYEVILLE (DR)	Typic Borosaprists
SANDUSKY	Fluvaquentic Haplaquolls	SEGIDAL	Typic Sideraquods
SANIBEL (DR)	Typic Psammaquents	SEJITA	Typic Salorthids
SANTANELA	Typic Natraqualfs	SEKIU	Humic Haplaquepts
SANTAROSA (F)	Typic Haplaquolls	SELLERS	Cumulic Humaquepts
SANTEE (DR)	Typic Argiaquolls	SELMA (DR)	Typic Haplaquolls
SAPELO	Ultic Haplaquods	SEMLAHMOO	Typic Medisaprists
SARANAC (DR)	Fluvaquentic Haplaquolls	SESSUM	Vertic Ochraqualfs

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
SETTLEMENT	Aeric Halaquepts	SNIDER	Aquic Hapludolls
SETTLEMAYER	Fluvaquentic Haplaquolls	SNOHOMISH	Thapto-Histic Fluvaquents
SEVERN (FF)	Typic Udifluvents	SOLIER	Aeric Haplaquepts
SEXTON	Typic Ochraqualfs	SOLOMON	Vertic Haplaquolls
SHAKER	Aeric Haplaquepts	SONOMA	Aeric Fluvaquents
SHAKOPEE	Typic Calciaquolls	SORTER	Typic Ochraqualfs
SHALBA	Typic Albaqualfs	SOSTIEN	Vertic Fluvaquents
SHALCAR	Terric Medisaprists	SOUTHAM	Cumulic Haplaquolls
SHANDEP (DR)	Cumulic Haplaquolls	SPALDING	Typic Borohemists
SHANGHAI (FF)	Aquic Xerofluvents	SPENARD (DR)	Sideric Cryaquods
SHARKEY	Vertic Haplaquepts	SPERRY	Typic Argialbolls
SHEFFIELD	Typic Fragiaqualfs	SPICER (DR)	Typic Haplaquolls
SHELMADINE	Typic Fragiaquults	SPOONER (DR)	Typic Ochraqualfs
SHENKS	Terric Medisaprists	SPRINGFIELD	Aeric Albaqualfs
SHERRY (DR)	Udolic Ochraqualfs	ST. JOHNS	Typic Haplaquods
SHILOH (DR)	Cumulic Haplaquolls	ST. NICHOLAS	Lithic Cryaquods
SHIMA	Terric Medisaprists	STAMP	Typic Cryochrepts
SHINKEE	Terric Medisaprists	STANEY	Fluvaquentic Cryofibrists
SHONKIN	Typic Haplustalfs	STAPLES	Arenic Ochraqualfs
SHOOKER (DR)	Typic Ochraqualfs	STARICHKOP	Fluvaquentic Borohemists
SHREWSBURY (DR)	Typic Ochraquults	STATELINE	Mollic Ochraqualfs
SHUMWAY	Vertic Haplaquepts	STAVE	Typic Cryaquents
SICKLES (DR)	Mollic Haplaquents	STEED	Entic Haploxerolls
SIKESTON	Cumulic Haplaquolls	STENDAL	Aeric Fluvaquents
SILVIES	Cumulic Cryaquolls	STERRETT	Aeric Ochraqualfs
SIMS (DR)	Mollic Haplaquepts	STIMSON	Typic Humaquepts
SKACIT	Typic Fluvaquents	STIRUM (DR)	Typic Natraquolls
SKAGWAY	Typic Cryopsamments	STOCKADE	Typic Umbraqualfs
SKOKOMISH	Mollic Fluvaquents	STONO (DR)	Typic Argiaquolls
SLIKOK	Histic Cryaquepts	STRANDQUIST	Typic Haplaquolls
SLOAN	Fluvaquentic Haplaquolls	STREATOR (DR)	Typic Haplaquolls
SMILEY (DR)	Typic Argiaquolls	STROM	Pachic Argixerolls
SMILEYVILLE	Mollic Albaqualfs	STUMPP	Natric Cryoborolls
SMITHTON	Typic Paleaquults	STURGILL	Fluvaquentic Haplaquolls
SMYRNA	Aeric Haplaquods	SUCARNOOCHEE (FF)	Aquentic Chromuderts

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
SUISUN	Typic Medihemists	TAWCAW (FF)	Fluvaquentic Dystrochrepts
SUMAN (DR)	Fluvaquentic Haplaquolls	TEALWHIT	Aeric Haplaquepts
SUMAS	Typic Fluvaquents	TEETERS	Mollic Halaquepts
SUMPF (DR)	Cumulic Haplaquolls	TELA (FF)	Typic Argiustolls
SUN	Aeric Haplaquepts	TELFERNER	Typic Albaqualfs
SUNNYHAY	Lithic Cryosaprists	TEMPLE (FF)	Aeric Haplaquepts
SURFSIDE	Vertic Haplaquolls	TENDOY	Typic Borosaprists
SURRENCY	Arenic Umbric Paleaquults	TENSAS (FF)	Aeric Ochraqualfs
SUSANNA	Ultic Haplaquods	TEPETE	Terric Borochemists
SWALER	Xerollic Paleargids	TEQUESTA	Arenic Glossaqualfs
SWAN	Typic Haplaquolls	TERMO	Xerollic Paleargids
SWANSEA	Terric Medisaprists	TEROUGE	Aquic Chromuderts
SWANTON (DR)	Aeric Haplaquepts	TERRA CEIA (DR)	Typic Medisaprists
SWANVILLE (DR)	Aeric Haplaquepts	TETONKA (DR)	Argiaquic Argialbolls
SWARTZ	Typic Palexeralfs	TETONVIEW (DR)	Typic Calciaquolls
SWEETWATER	Fluvaquentic Haplaquolls	TETONVILLE	Mollic Cryofluvents
SYCAMORE (FF)	Aeric Haplaquepts	TEXARK	Typic Pelluderts
SYRENE	Typic Calciaquolls	THIEFRIVER (DR)	Typic Calciaquolls
TACOMA	Andaqueptic Fluvaquents	THOMAS (DR)	Histic Humaquepts
TACOOSH (DR)	Terric Borochemists	THORNDALE	Typic Fragiaqualfs
TAINTOR	Typic Argiaquolls	THORNTON	Aquic Xerorthents
TALCO	Aeric Glossaqualfs	THORP (DR)	Argiaquic Argialbolls
TALCOT (DR)	Typic Haplaquolls	TIBURONES	Typic Troposaprists
TALMOON (DR)	Mollic Ochraqualfs	TICE (FF)	Fluvaquentic Hapludolls
TALQUIN	Entic Haplaquods	TICHNOR	Typic Ochraqualfs
TAMBA	Typic Haplaquepts	TIFFANY (DR)	Typic Haplaquolls
TANAK		TILFER	Typic Haplaquolls
TANANA	Pergelic Cryaquepts	TIMBALIER	Typic Medisaprists
TANDY	Aquic Udifluvents	TINN	Vertic Haplaquolls
TANTILE	Ultic Haplaquods	TIOCANO (DR)	Udic Pellusterts
TANWAX	Mollic Fluvaquents	TISCH	Mollic Andaquepts
TAPPAN (DR)	Typic Haplaquolls	TISONIA	Typic Sulfihemists
TATLUM	Typic Hydraquents	TITUS	Fluvaquentic Haplaquolls
TATTON	Typic Psammaquents	TOBICO (DR)	Mollic Psammaquents
TAWAS (DR)	Terric Borosaprists	TOCOI	Ultic Haplaquods

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
TODDSTAV	Typic Ochraquults	TUCKER (FF)	Cumulic Haploxerolls
TOGUS	Terric Borofibrists	TUCKERMAN	Typic Ochraqualfs
TOINE (FF)	Ultic Hapludalfs	TUGHILL	Histic Humaquepts
TOISNOT (DR)	Typic Fragiaquults	TUKWILA	Limnic Medisaprists
TOLEDO	Mollic Haplaquepts	TULELAKE (F)	Aeric Fluvaquents
TOLSONA	Histic Pergelic Cryaquepts	TULLAHASSEE (FF)	Aquic Udifluvents
TOMAST	Aeric Paleaquults	TUNICA (FF)	Vertic Haplaquepts
TOMOKA	Terric Medisaprists	TUPUKNUK	Pergelic Cryaquepts
TOMOTLEY (DR)	Typic Ochraquults	TURLOCK	Albic Natraqualfs
TONKA (DR)	Argiaquic Argialbolls	TURNBULL	Typic Hydraquents
TONKEY (DR)	Mollic Haplaquepts	TUSCAWILLA	Typic Ochraqualfs
TOOLES	Arenic Albaqualfs	TUSCUMBIA	Vertic Haplaquepts
TOOLESBORO	Typic Haplaquolls	TUSKEEGO	Mollic Ochraqualfs
TOPPENISH	Fluvaquentic Haplaquolls	TWEBA	Aeric Fluvaquents
TOR	Lithic Haplaquepts	TWIG (DR)	Histic Humaquepts
TORHUNTA (DR)	Typic Humaquepts	TWOMILE	Typic Albaqualfs
TORPEDO LAKE	Histic Cryaquepts	TYNDALL (FF)	Aeric Haplaquepts
TORRY	Typic Medisaprists	TYONEK	Fluvaquentic Borosaprists
TORSIDO	Typic Argiaquolls	UDOLPHO (DR)	Mollic Ochraqualfs
TOTO (DR)	Limnic Medisaprists	UGAK	Andic Cryaquepts
TOTTEN (DR)	Typic Natraquolls	UMBERLAND (F,P)	Aeric Halaquepts
TOWHEE	Typic Fragiaqualfs	UMIAT	Pergelic Cryaquepts
TOXAWAY (DR)	Cumulic Humaquepts	UNA	Typic Haplaquepts
TRACK	Fluvaquentic Haplaquolls	UNAKWIK	Terric Cryohemists
TRACOSA	Typic Haplaquents	UNCAS	Mollic Andaquepts
TRAER	Typic Ochraqualfs	URBO (FF)	Aeric Haplaquepts
TREATY (DR)	Typic Argiaquolls	URICH	Typic Argiaquolls
TREBLOC	Typic Paleaquults	URNESS (DR)	Mollic Fluvaquents
TRIANGLE	Aquic Chromoxererts	UTABA	Cumulic Haploxerolls
TRINITY	Typic Pelluderts	UTE	Argic Cryaquolls
TROSKY (DR)	Typic Haplaquolls	VACHERIE (FF)	Aeric Fluvaquents
TRUMBULL	Typic Ochraqualfs	VALDEZ (FF)	Aeric Haplaquepts
TRUSSEL	Aeric Fragiaquepts	VALKARIA	Spodic Psammaquents
TRYON	Typic Psammaquents	VALLERS (DR)	Typic Calciaquolls
TSIRKU	Typic Cryofluvents	VAMONT	Aquentic Chromuderts

(Continued)

Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
VARICK	Mollic Ochraqualfs	WADMALAW (DR)	Umbric Ochraqualfs
VASSALEBORO	Typic Borofibrists	WAGNER (DR)	Mollic Albaqualfs
VASTINE	Typic Haplaquolls	WAKELAND (FF)	Aeric Fluvaquents
VAUGHAN	Typic Albaqualfs	WALDEN (FF)	Typic Cryaquolls
VEAZIE	Cumulic Haploxerolls	WALDO	Fluvaquentic Haplaquolls
VEEDUM (DR)	Typic Humaquepts	WALDORF	Typic Haplaquolls
VELASCO	Cumulic Haplaquolls	WALFORD	Mollic Ochraqualfs
VENABLE	Cumulic Cryaquolls	WALLER	Typic Glossaqualfs
VENAPASS	Cumulic Cryaquolls	WALLKILL (DR)	Thapto Histic Fluvaquents
VENICE	Typic Medihemists	WALPOLE	Aeric Haplaquepts
VENLO (DR)	Typic Haplaquolls	WAMBA	Typic Haplaquolls
VERBOORT	Typic Argialbolls	WANSER	Typic Psammaquents
VERENDRYE	Typic Haplaquolls	WAPATO	Fluvaquentic Haplaquolls
VERHALEN	Mollic Torrerts	WARDELL (DR)	Mollic Ochraqualfs
VERO	Alfic Haplaquods	WAREHAM	Humaqueptic Psammaquents
VESPER (DR)	Humic Haplaquepts	WARM SPRINGS	Aeric Calciaquolls
VESTABURG (DR)	Mollic Psammaquents	WARMAN (DR)	Histic Humaquepts
VESTON	Typic Fluvaquents	WARNERS (DR)	Fluvaquentic Haplaquolls
VICTORIA (P)	Udic Pellusterts	WARRENTON	Typic Tropaquepts
VIDAURI	Vertic Albaqualfs	WASDA (DR)	Histic Humaquepts
VIGIA	Histic Tropaquepts	WASHBURN (P)	
VIKING	Typic Haplaquolls	WASHTENAW (DR)	Aeric Fluvaquents
VILLY	Typic Fluvaquents	WASILLA	Humic Cryaquepts
VIMVILLE	Typic Glossaqualfs	WASKISH	Typic Sphagnofibrists
VINCENNES	Typic Haplaquepts	WATCHUNG	Typic Ochraqualfs
VIRDEN (DR)	Typic Argiaquolls	WAUBERG	Arenic Albaqualfs
VOATS (FF)	Fluventic Haploxerolls	WAUCEDAH	Histic Humaquepts
VOLTA	Typic Natraqualfs	WAUCHULA	Ultic Haplaquods
VOLTAIRE	Fluvaquentic Haplaquolls	WAUPACA (DR)	Mollic Fluvaquents
WABASH	Vertic Haplaquolls	WAUSEON (DR)	Typic Haplaquolls
WABASHA	Mollic Fluvaquents	WAUTOMA (DR)	Mollic Haplaquents
WABASSO	Alfic Haplaquods	WAVELAND	Arenic Haplaquods
WACAHOOOTA	Arenic Paleaquults	WAVERLY	Typic Fluvaquents
WACOUSTA (DR)	Typic Haplaquolls	WAXPOOL	Albaquic Hapludalfs
WADLEIGH	Typic Cryaquods	WAYLAND (DR)	Mollic Fluvaquents

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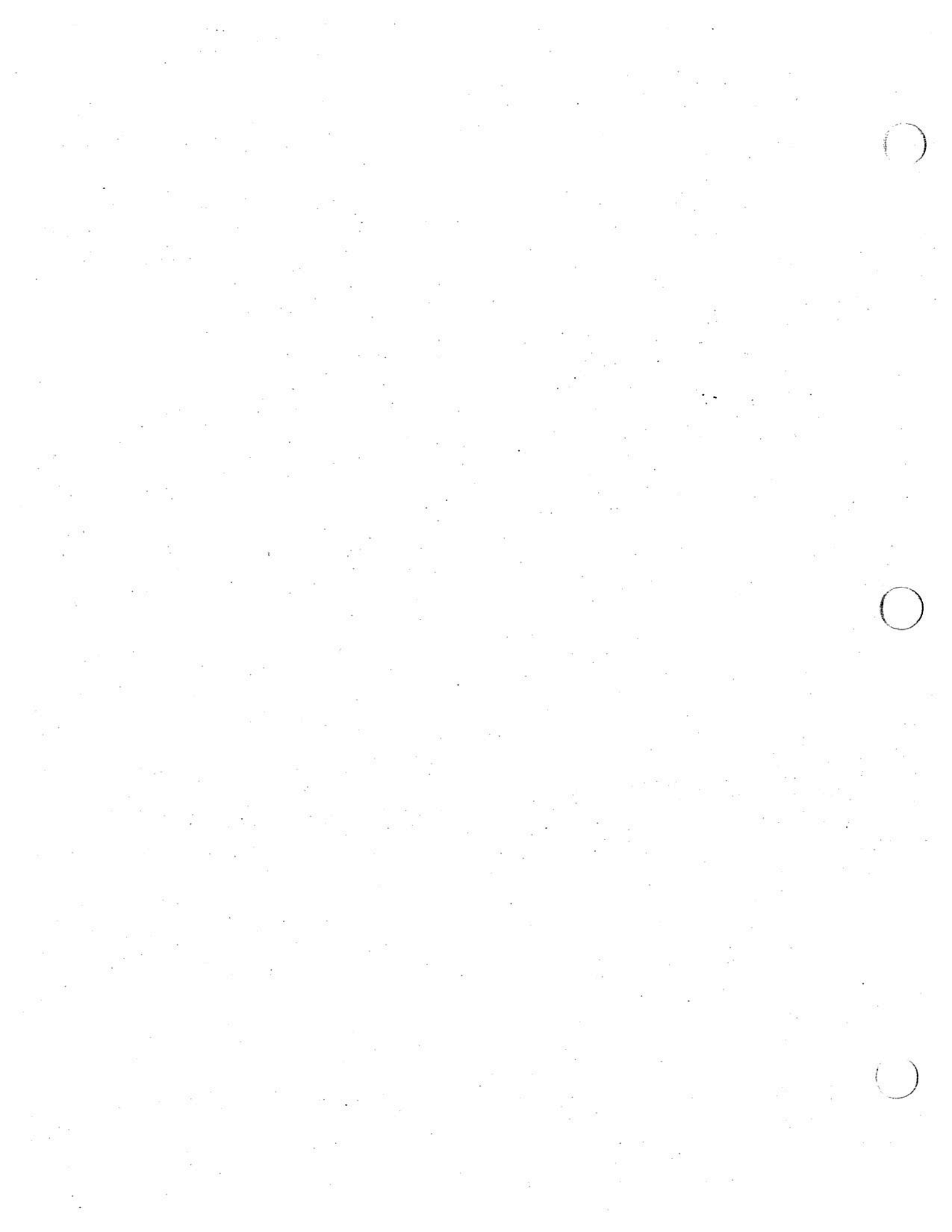
Table D1 (Continued)

Soil Phase	Classification	Soil Phase	Classification
WEBILE	Terric Medisaprists	WILLETTE (DR)	Terric Medisaprists
WEBSTER	Typic Haplaquolls	WILLIMAN	Arenic Ochraquolls
WEEKIWACHEE	Typic Sulfihemists	WILLOWS	Typic Pelloxererts
WEEKSVILLE (DR)	Typic Humaquepts	WILLWOOD	Typic Torriorthents
WEHADKEE (DR)	Typic Fluvaquents	WILMINGTON	Typic Haplaquods
WEIMER	Typic Pelloxererts	WILSON	Vertic Ochraqualls
WEIR (DR)	Typic Ochraqualls	WINDER	Typic Glossaqualls
WEIRMAN (FF)	Torrifluventic Haploxerolls	WINGER	Typic Calciaquolls
WELCH	Cumulic Haplaquolls	WINGINAW (DR)	Terric Borofibrists
WELSUM	Cumulic Haplaquolls	WINLO	Typic Duraquolls
WENAS	Cumulic Haplaquolls	WINTERSET	Typic Argiaquolls
WENDANE	Aeric Halaquepts	WISNER (DR)	Typic Haplaquolls
WESCONNETT	Typic Haplaquods	WITBECK	Mollic Haplaquepts
WESTBROOK	Typic Sulfihemists	WOCKLEY	Plinthatic Paleudalfs
WESTLAND (DR)	Typic Argiaquolls	WOLCOTT	Typic Haplaquolls
WESTON	Typic Ochraqualls	WOLDALE	Typic Haplaquolls
WESTWEGO	Thapto-Histic Fluvaquents	WOLFESON	Aquic Xerochrepts
WETZEL	Typic Ochraqualls	WOLLENT	Typic Humaquepts
WEYERS	Fluvaquentic Haplaquolls	WOODINGTON (DR)	Typic Paleaquolls
WHATELY	Mollic Haplaquepts	WOODINVILLE	Typic Fluvaquents
WHEATLEY (DR)	Mollic Psammaquents	WOODLYN	Typic Ochraqualls
WHITEHORN	Typic Humaquepts	WOODS CROSS	Cumulic Haplaquolls
WHITESON	Fluvaquentic Haplaquolls	WOOFUS	Fluvaquentic Haplaquolls
WHITWOOD (DR)	Cumulic Haplaquolls	WORSHAM	Typic Ochraqualls
WHITMAN	Typic Humaquepts	WORTHING (DR)	Typic Argiaquolls
WHITSON	Typic Ochraqualls	WRANGELL	Fergelic Cryohemists
WICHUP (FF)	Histic Cryaquolls	WRENCOE	Typic Haplaquolls
WIERGATE	Typic Pelluderts	WRIGHTSVILLE	Typic Glossaqualls
WILBANKS (DR)	Cumulic Humaquepts	WULFERT	Terric Sulfihemists
WILBRAHAM	Aquic Dystrochrepts	WYALUSING	Typic Fluvaquents
WILDWOOD (DR)	Histic Humaquepts	WYANDOTTE (DR)	Typic Calciaquolls
WILHITE	Typic Fluvaquents	WYARD	Typic Haplaquolls
WILL (DR)	Typic Haplaquolls	WYICK	Typic Albaqualls
WILLAMAR	Typic Natraqualls	WYNONA	Cumulic Haplaquolls
WILLANCH	Aeric Tropaquepts	WYNOOSE	Typic Albaqualls

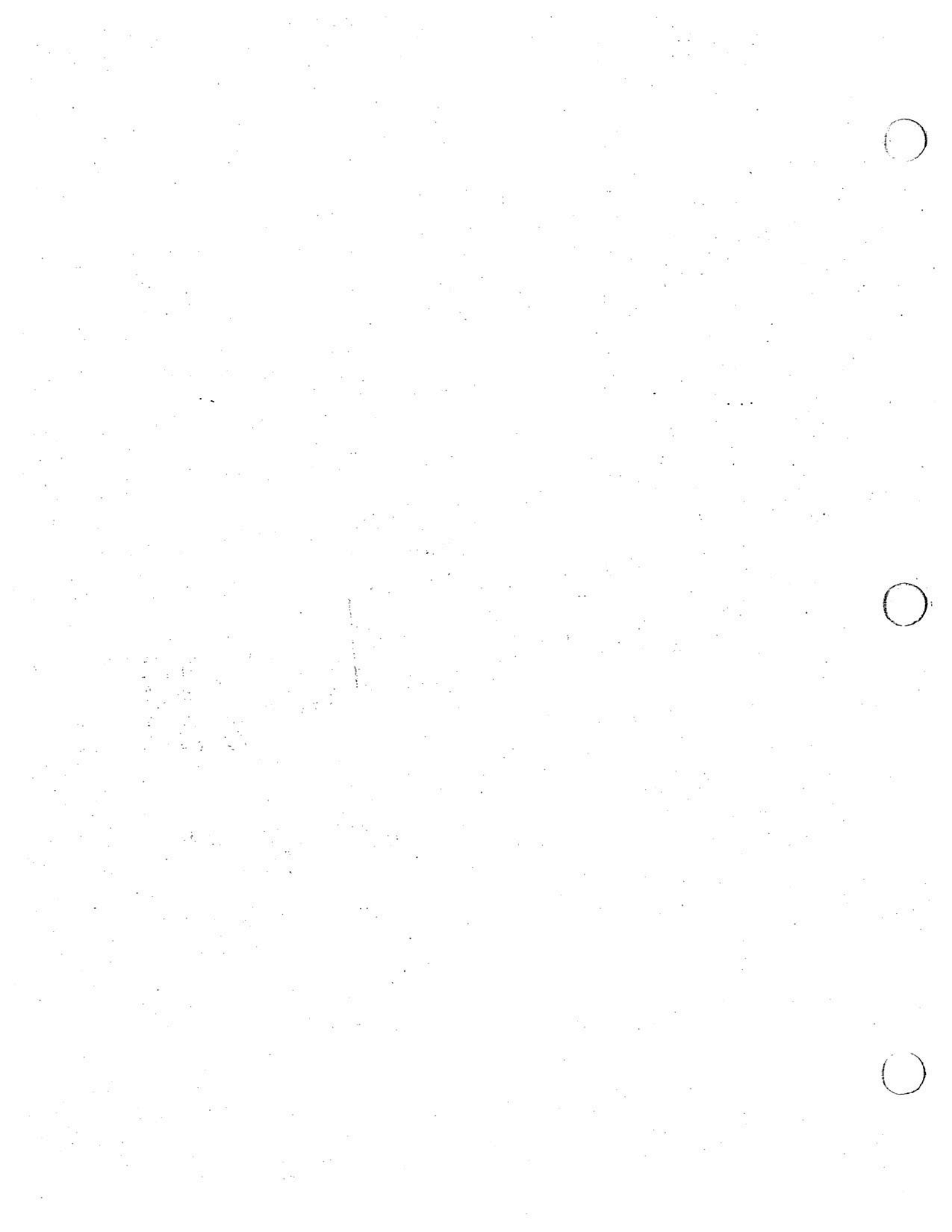
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Table D1 (Concluded)

Soil Phase	Classification	Soil Phase	Classification
WY SOCKING (DR)	Thapto-Histic Fluvaquents	ZADOG (DR)	Typic Haplaquolls
XIPE	Fluvaquentic Haplaquolls	ZEPHYR	Typic Ochraquolls
YAKIMA	Cumulic Haploxerolls	ZIEGENFUSS (DR)	Mollic Haplaquepts
YAMSAY	Limnic Borosaprists	ZILABOY	Aquic Chromuderts
YAQUINA	Aquic Haplorrhids	ZILLAH	Fluvaquentic Haplaquolls
YOBE	Aeric Haplaquepts	ZIPP	Typic Haplaquepts
YONGES (DR)	Typic Ochraqualfs	ZOE	Cumulic Haplaquolls
YORKTOWN	Typic Fluvaquents	ZOHNER	Calcic Cryaquolls
YOST	Typic Pelloxererts	ZOLA (FF)	Cumulic Haploxerolls
YUKON	Histic Pergelic Cryaquepts	ZOOK	Cumulic Haplaquolls
YULEE	Typic Haplaquolls	ZUMAN	Typic Haplaquents
YUVAS	Abruptic Durixeralfs	ZWINGLE	Typic Albaqualfs
ZACHARY	Typic Albaqualfs	ZYZZUG	Typic Humaquepts







PLANT SPECIES RECORDED ON MOBILE FIELD SITES

Rabbit Creek Floodplain

Sweetbay
Swamp tupelo
Red maple
Red bay
Swamp azalea
Hoary azalea
Wax myrtle
Evergreen bayberry
Chinese privet
Fetterbush
Titi
Bay-gall holly
Possum-haw viburnum
Virginia willow
Blackberry
Royal fern
Marsh fern
Netted chain fern
Virginia chain fern
Japanese climbing fern
Arrow arum
Crossvine
Laurel-leaf greenbrier
Poison ivy

Magnolia virginiana FACW+
Nyssa sylvatica var. *biflora* OBL
Acer rubrum FAC
Persea borbonia FACW
Rhododendron viscosum FACW+
Rhododendron canescens FACW-
Myrica cerifera FAC
Myrica heterophylla FACW
Ligustrum sinense FAC
Lyonia lucida FACW
Cyrilla racemiflora FACW
Ilex coriacea FACW
Viburnum nudum FACW+
Itea virginica FACW+
Rubus betulifolius FAC
Osmunda regalis OBL
? *Thelypteris palustris* FACW
Woodwardia areolata OBL
Woodwardia virginica OBL
Lygodium japonicum FAC
Peltandra virginica OBL
Bignonia capreolata FAC
Smilax laurifolia FACW+
Toxicodendron radicans FAC

Live Oak Landing

Baldcypress
Swamp tupelo
Sweetgum
Water locust
Diamond-leaf oak
Water oak
Red maple
American hornbeam

Taxodium distichum OBL
Nyssa sylvatica var. *biflora* OBL
Liquidambar styraciflua FAC+
Gleditsia aquatica OBL
Quercus hemisphaerica
Quercus nigra FAC
Acer rubrum FAC
Carpinus caroliniana FAC

1)

2)

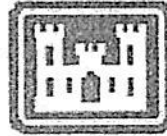
3)



Louisiana Department of Natural Resources
Coastal Management Division
(CMD)

Joint Permit Application

For Work Within the Louisiana Coastal Zone



U.S. Army Corps Of Engineers
(COE)
New Orleans District

Print Application

Permit Number: P20071009

Date Received: 07/16/2007

Step 1 of 15 - Applicant Information

Applicant/Company Name: Lafourche Parish Council

Applicant Type: GOVERNMENT AGENCY

Mailing Address: P.O Drawer 5528
Thibodaux, LA 70302

Contact Information: Ray Cheramie

Daytime: 985 537 7603 **Fax:**

Contact Email:

Step 2 of 15 - Agent Information

Agent/Company Name: J. Wayne Plaisance, INC.

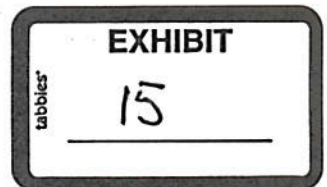
Mailing Address: P.O. Drawer 730
Galliano, LA 70345

Contact Information: Andre Uzee

Daytime: 985 632 5596 **Fax:** 985 632 5628 **Contact Email:** auzee@jwayneplaisance.com

Step 3 of 15 - Permit Type

- Coastal Use Permit (CUP) Solicitation of Views (SOV) Request for Determination (RFD)



Step 4 of 15 - Pre-Application Activity

a. Have you participated in a Pre-Application or Geological Review Meeting for the proposed project?

- No Yes

Date meeting was held:



Attendees:

(Individual or Company Rep) (CMD Representative) (COE Representative)

b. Have you obtained an official wetland determination from the COE for the project site?

No Yes

c. Is this application a mitigation plan for another CUP?

No Yes Permit Number:

Step 5 of 15 - Project Information

a. Describe the project:

Clear the Mathews Canal in order to improve drainage in Mathews

b. Is this application a change to an existing permit?

No Yes Permit Number:

c. Have you previously applied for a permit or emergency authorization for all or any part of the proposed project?

No Yes

Agency Name	Permit Number	Decision Status	Decision Date
CMD			
COE			
Other			

Step 6 of 15 - Project Location

a. Physical Location

Street:

City: Mathews Parish: LAFOURCHE Zip: 70375

b. Latitude and Longitude

Latitude: 29 31 41 Longitude: -90 40 52

c. Section, Township, and Range

Section #: 11-15 Township #: 16S Range #: 19E

Section #: Township #: Range #:

d. Lot, Track, Parcel, or Subdivision Name

Lot #: Parcel #:

Tract #: Subdivision Name:

e. Site Direction:

Start intersection of HWY 90 and La. 308 turn South on La. 308 and travel approx. 3 miles to the intersection of La. 308 and La. 654 (Gheens Road) turn East on La. 654 and travel approx. 3/4 of a mile. The canal starts on the right side of the road

Step 7 of 15 - Adjacent Landowners

Adjacent Landowner 1: John Brady

Mailing Address: 363 Industrial Park Rd
Lockport, LA 70374

Adjacent Landowner 2: Raceland Raw Sugars

Mailing Address: 159 Milli Street
Raceland, LA 70394

Adjacent Landowner 3: John Barker

Mailing Address: 122 Barker Rd
Lockport, LA 70374

Adjacent Landowner 4: Benny Cenac

Mailing Address: 3326 Gheens Main Rd
Gheens, LA 70355

Step 8 of 15 - Project Specifics

a. Project Name and/or Title: Clearing of the Mathews Canal

b. Project Type: Non-Residential

c. What will be done for the proposed project?

- Bridge/Road Home Site/Driveway Pipeline/Flow Line Rip Rap/Erosion Control
 Bulkhead/Fill Levee Construction Plug/Abandon Site Clearance

- Drainage Improvements
- Maintenance Dredging
- Production Barge/Structure
- Subdivision
- Drill Barge/Structure
- Prop Washing
- Vegetative Plantings
- Wharf/Pier/Boathouse
- Drill Site
- Pilings
- Remove Structures
- Other:

d. Why is the proposed project needed?

to provide improved drainage

Step 9 of 15 - Project Status

a. Proposed project start date: 06/01/2007 Proposed project completion date: 09/30/2007

b. Is any of the project work in progress?

- No
- Yes

c. Is any of the project work complete?

- No
- Yes

Step 10 of 15 - Structures, Materials, and Methods for the Proposed Project

a. Excavations

- Vegetated Waterbottoms: yd³ Acres
- Wetlands: yd³ Acres
- Non-Vegetated Waterbottoms: 20,000 yd³ 10 Acres
- Non-Wet Areas: yd³ Acres

b. Fill Areas

- Vegetated Waterbottoms: yd³ Acres
- Wetlands: yd³ Acres
- Non-Vegetated Waterbottoms: yd³ Acres
- Non-Wet Areas: 20,000 yd³ 19 Acres

c. Fill Materials

- Concrete: yd³
- Rock: yd³
- Crushed Stone or Gravel: yd³
- Sand: yd³
- Native Material: 20,000 yd³
- Topsoil/Dirt: yd³

Other: yd³

d. What equipment will be used for the proposed project?

- Airboat
- Backhoe
- Barge Mounted Bucket Dredge
- Barge Mounted Drilling Rig
- Other:
- Bulldozer/Grader
- Dragline/Excavator
- Handjet
- Land Based Drilling Rig
- Marsh Buggy
- Other Tracked or Wheeled Vehicles
- Self Propelled Pipe Laying Barge
- Tugboat

Step 11 of 15 - Project Alternatives

a. What alternative locations, methods, and access routes were considered to avoid impact to wetlands and/or waterbottoms?

N/A

b. What efforts were made to minimize impact to wetlands and/or waterbottoms?

N/A

Step 12 of 15 - Permit Type and Owners

a. Are you applying for a Coastal Use Permit?

- No
- Yes

b. Are you the sole landowner/oyster lease holder?

- No
- Yes

- The applicant is an owner of the property on which the proposed described activity is to occur.
- The applicant has made reasonable effort to determine the identity and current address of the owner(s) of the land on which the proposed described activity is to occur, which included, a search of the public records of the parish in which the proposed activity is to occur.
- The applicant hereby attests that a copy of the application has been distributed to the following landowners/oyster lease holders.

Landowner/Oyster Lease Holders 1: Raceland Raw Sugars
 Mailing Address: 159 Milli Street
 City/State/Zip: Raceland LA 70394

Landowner/Oyster Lease Holders 2: John Barker

Mailing Address: 122 Barker Road
City/State/Zip: Lockport LA 70374

c. Does the proposed activity present potential impacts to vegetated wetlands?

No Yes Not Sure

Step 13 of 15 - Maps and Drawing Instructions

111126477 - APPLICATION PLATS REVISIONS - APPLICATION FORM	07/16/2007 01:23:04 PM
111126577 - APPLICATION PLATS REVISIONS - PLATS	07/16/2007 01:23:06 PM
111126588 - APPLICATION PLATS REVISIONS - COVER LETTER	07/16/2007 01:23:08 PM

Step 14 of 15 - Payment

The fee for this permit is: \$100.00

Step 15 of 15 - Payment Processed

Applicant Information

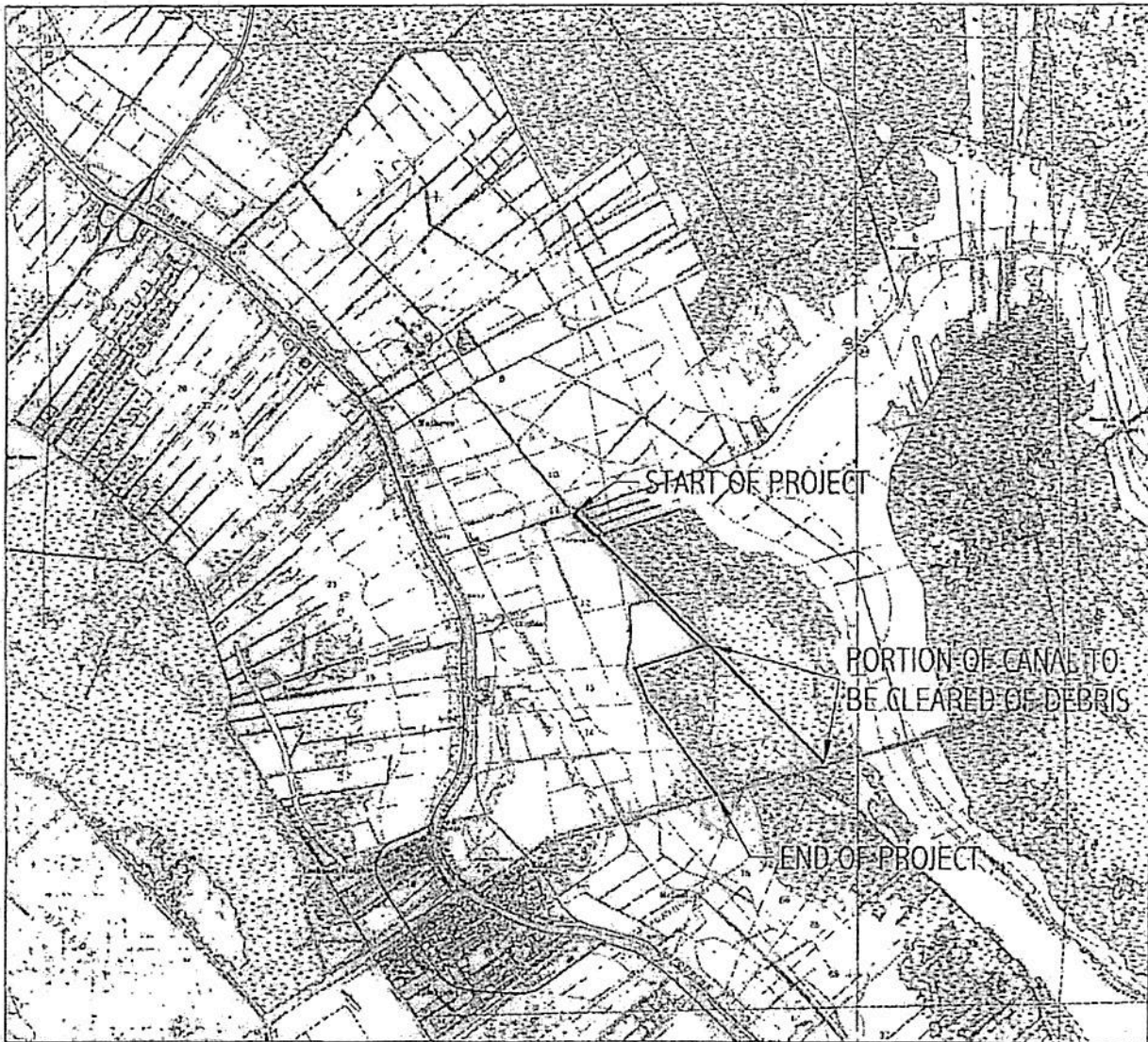
Applicant Name: Lafourche Parish Council
Address: P.O Drawer 5528
City/State/Zip: Thibodaux, LA 70302

Application Information

Permit Type: CUP

To the best of my knowledge the proposed activity described in this permit application complies with, and will be conducted in a manner that is consistent with, the Louisiana Coastal Management Program.

[View Comments related to this project](#)



START OF PROJECT
 LAT. 29° 31' 41"
 LONG. 90° 40' 52"

END OF PROJECT
 LAT. 29° 39' 22"
 LONG. 90° 30' 52"

PROJECT IS IN
 SECTIONS: 11, 12, 13, 14, 15
 T-16-S, R-19-E

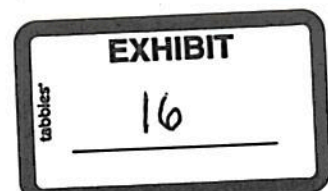
SHEET 1 OF 10

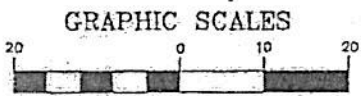
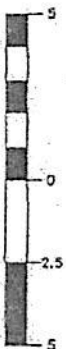
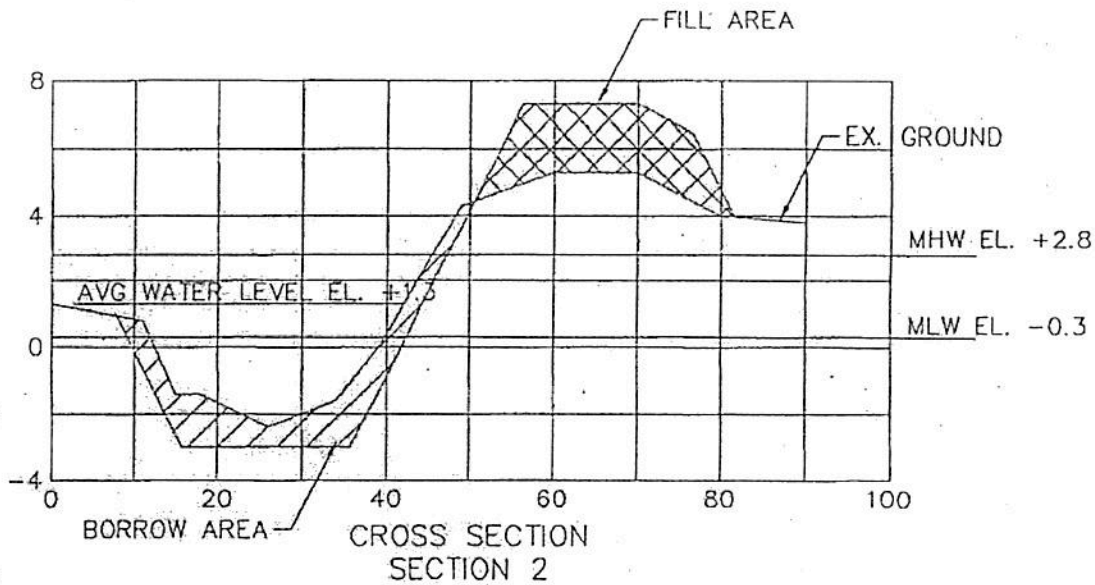
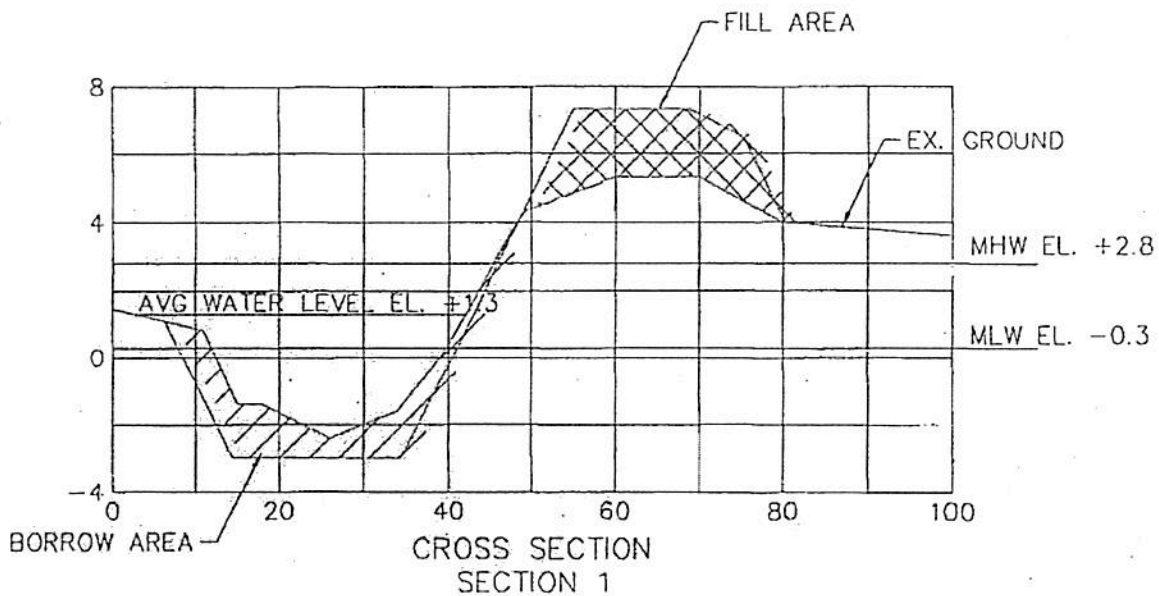
LAFORCHE PARISH COUNCIL
 PERMIT APPLICATION
 TO CLEAN OUT THE MATHEWS CANAL
 VICINITY MAP

DATE: MARCH, 2007 SCALE: 1" = 5000'



J. WAYNE PLAISANCE, INC.
 CIVIL ENGINEERS & LAND SURVEYORS
 P. O. DRAWER 730, GALLIANO, LA 70354
 ph. (985)632-5596, fax (985)632-5628
 JPlaisance@JWaynePlaisance.com





(IN FEET)
1 inch = 5 ft

(IN FEET)
1 inch = 20 ft.

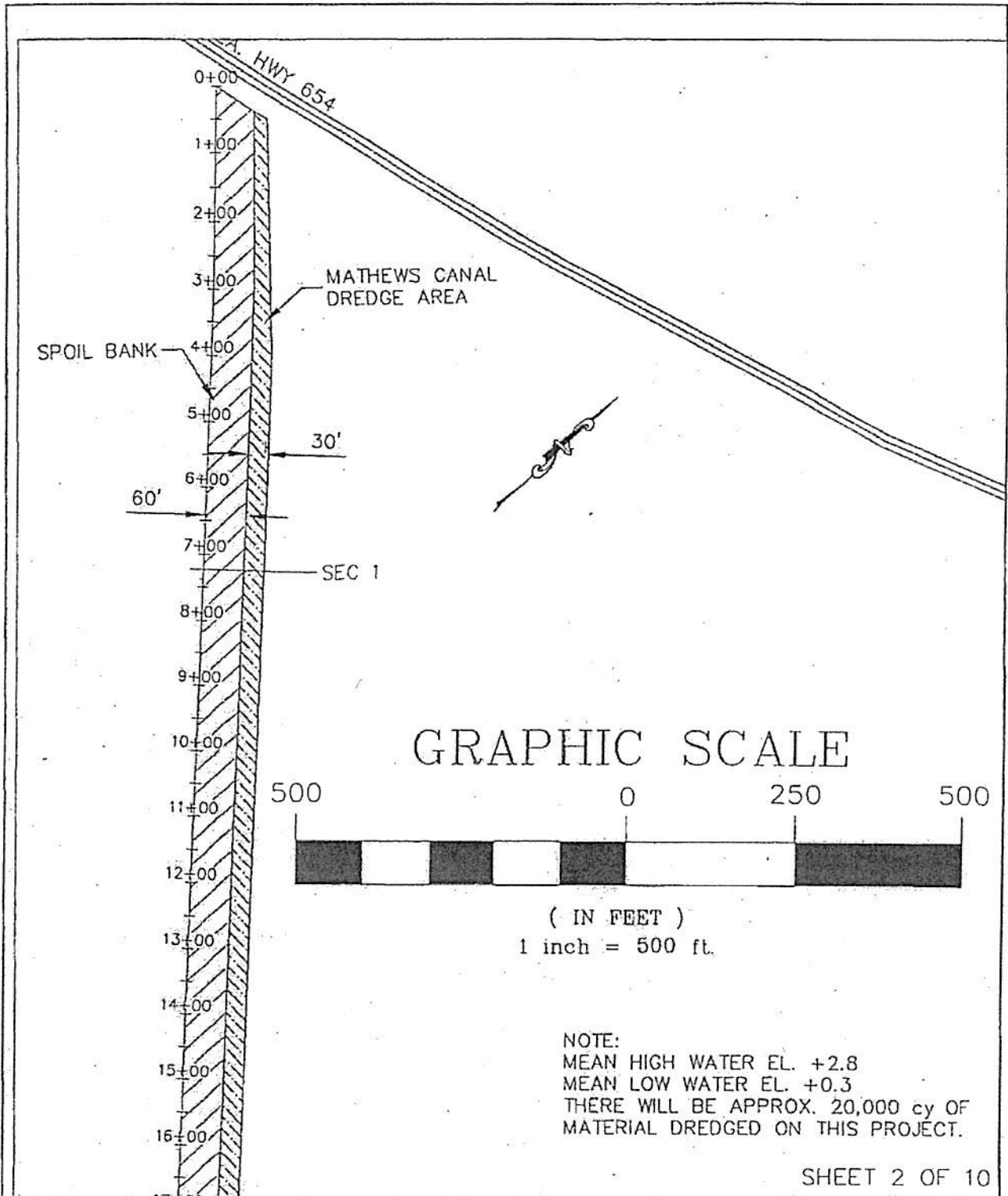
NOTE:
MEAN HIGH WATER EL. +2.8
MEAN LOW WATER EL. +0.3
THERE WILL BE APPROX. 20,000 cy OF
MATERIAL DREDGED ON THIS PROJECT.

SHEET 9 OF 10

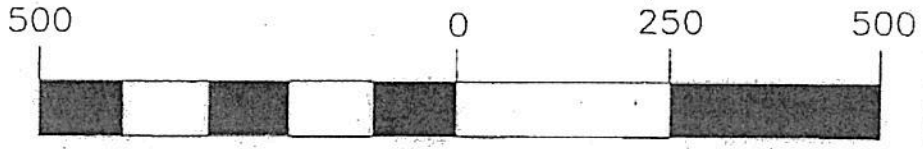
LAFORCHE PARISH COUNCIL
PERMIT APPLICATION
TO CLEAN OUT THE MATHEWS CANAL
CROSS SECTION VIEW
DATE: MARCH, 2007 SCALE: 1" = 20. 1" = 5"



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ph. (985)632-5596, fax (985)632-5628
JPlaisance@JWaynePlaisance.com



GRAPHIC SCALE



(IN FEET)
1 inch = 500 ft.

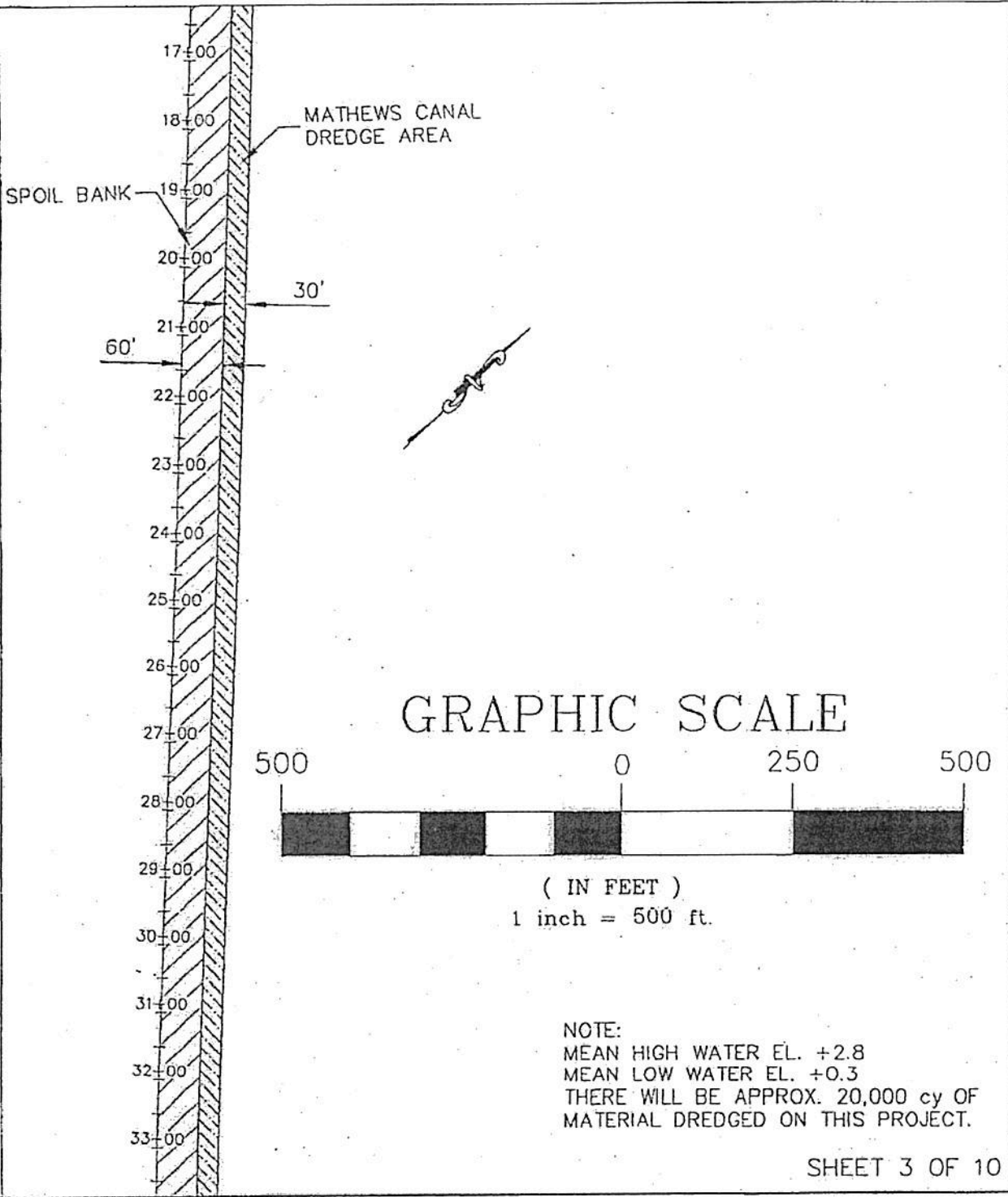
NOTE:
MEAN HIGH WATER EL. +2.8
MEAN LOW WATER EL. +0.3
THERE WILL BE APPROX. 20,000 cy OF
MATERIAL DREDGED ON THIS PROJECT.

SHEET 2 OF 10

LAFORCHE PARISH COUNCIL
PERMIT APPLICATION
TO CLEAN OUT THE MATHEWS CANAL
PLAN VIEW
DATE: MARCH, 2007 SCALE: 1" = 500'



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JPlaisance@JWaynePlaisance.com

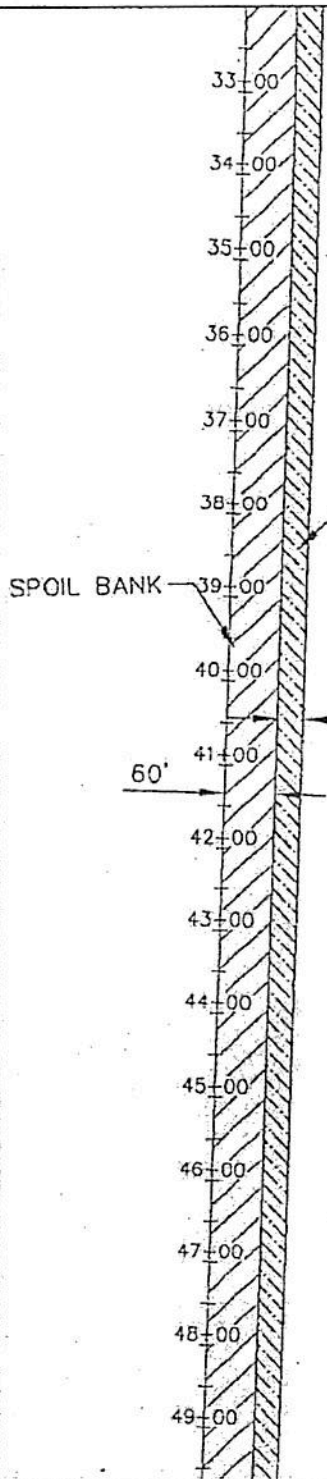


SHEET 3 OF 10

LAFORCHE PARISH COUNCIL
 PERMIT APPLICATION
 TO CLEAN OUT THE MATHEWS CANAL
 PLAN VIEW
 DATE: MARCH, 2007 SCALE: 1" = 500'

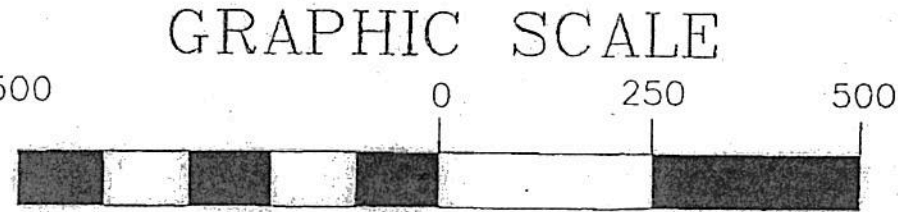


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 JPlaisance@JWaynePlaisance.com



MATHEWS CANAL
DREDGE AREA

SPOIL BANK



GRAPHIC SCALE

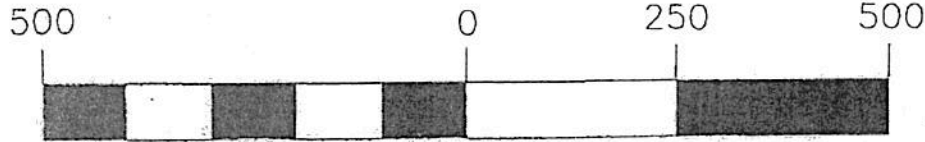
NOTE:
 MEAN HIGH WATER EL. +2.8
 MEAN LOW WATER EL. +0.3
 THERE WILL BE APPROX. 20,000 cy OF
 MATERIAL DREDGED ON THIS PROJECT.

LAFOURCHE PARISH COUNCIL
 PERMIT APPLICATION
 TO CLEAN OUT THE MATHEWS CANAL
 PLAN VIEW
 DATE: MARCH, 2007 SCALE: 1" = 500'

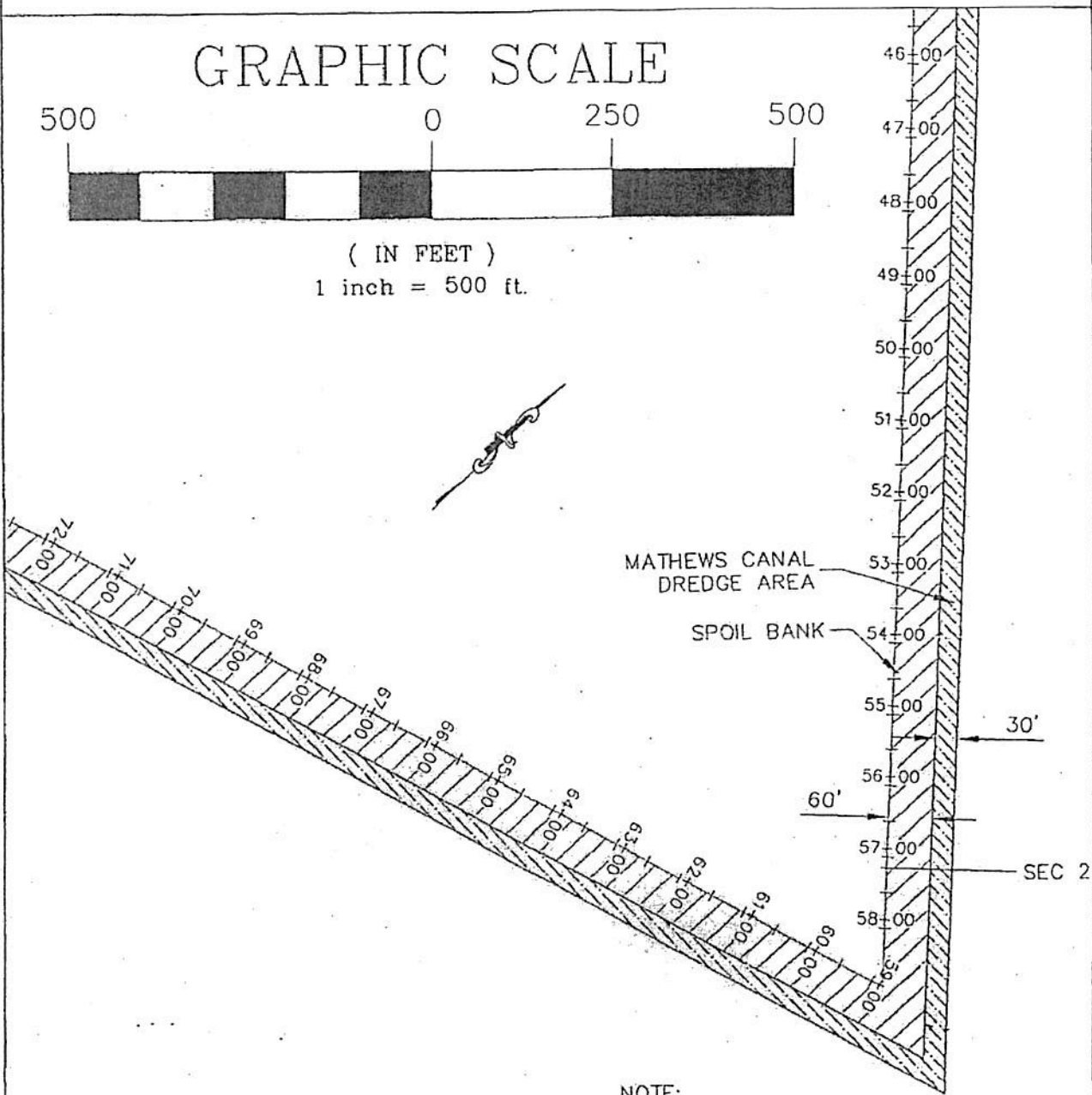


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 ph. (985)632-5596, fax (985)632-5628
 JPlaisance@JWaynePlaisance.com

GRAPHIC SCALE



(IN FEET)
1 inch = 500 ft.



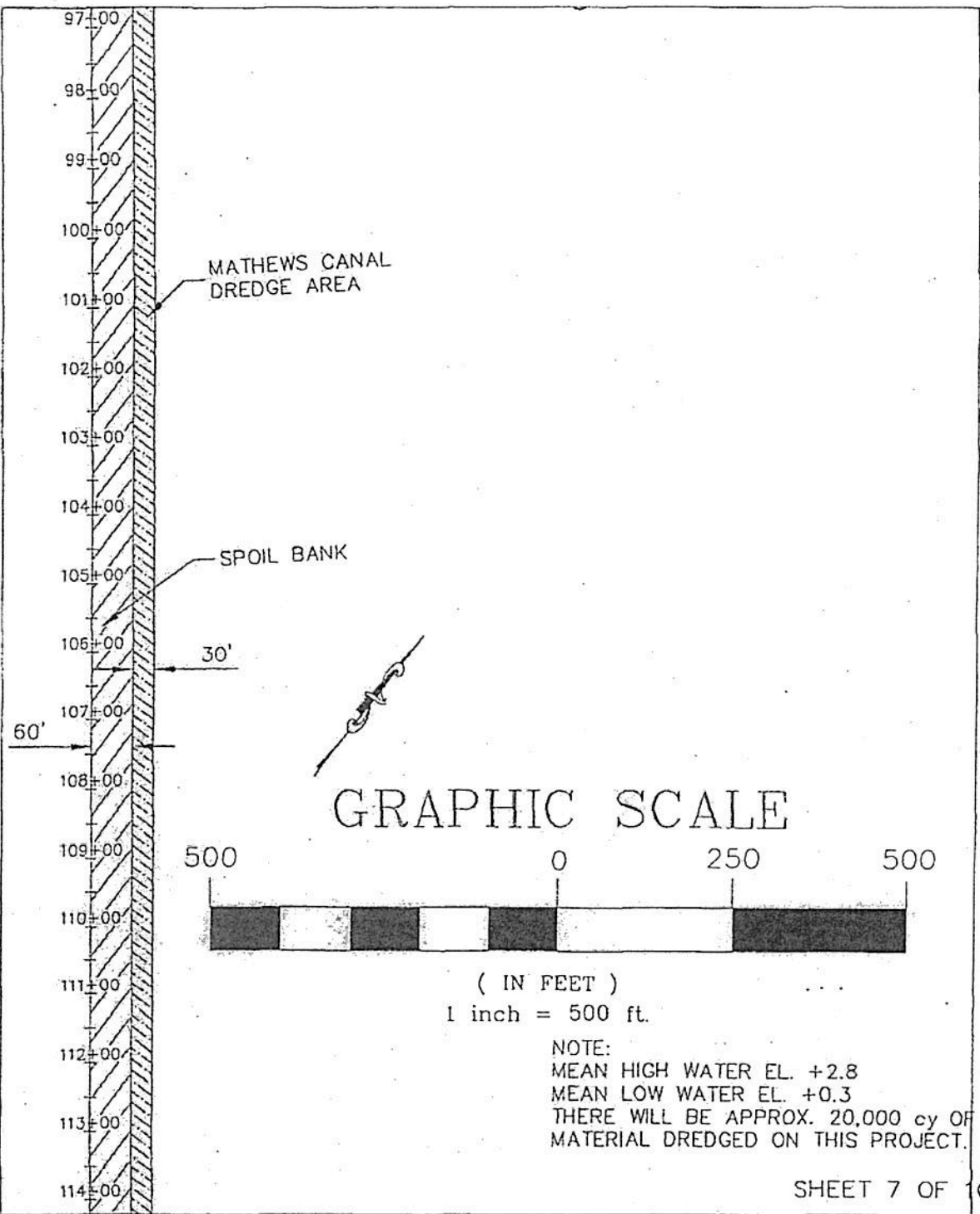
NOTE:
MEAN HIGH WATER EL. +2.8
MEAN LOW WATER EL. +0.3
THERE WILL BE APPROX. 20,000 cy OF
MATERIAL DREDGED ON THIS PROJECT.

SHEET 5 OF 10

LAFORCHE PARISH COUNCIL
PERMIT APPLICATION
TO CLEAN OUT THE MATHEWS CANAL
PLAN VIEW
DATE: MARCH, 2007 SCALE: 1" = 500'



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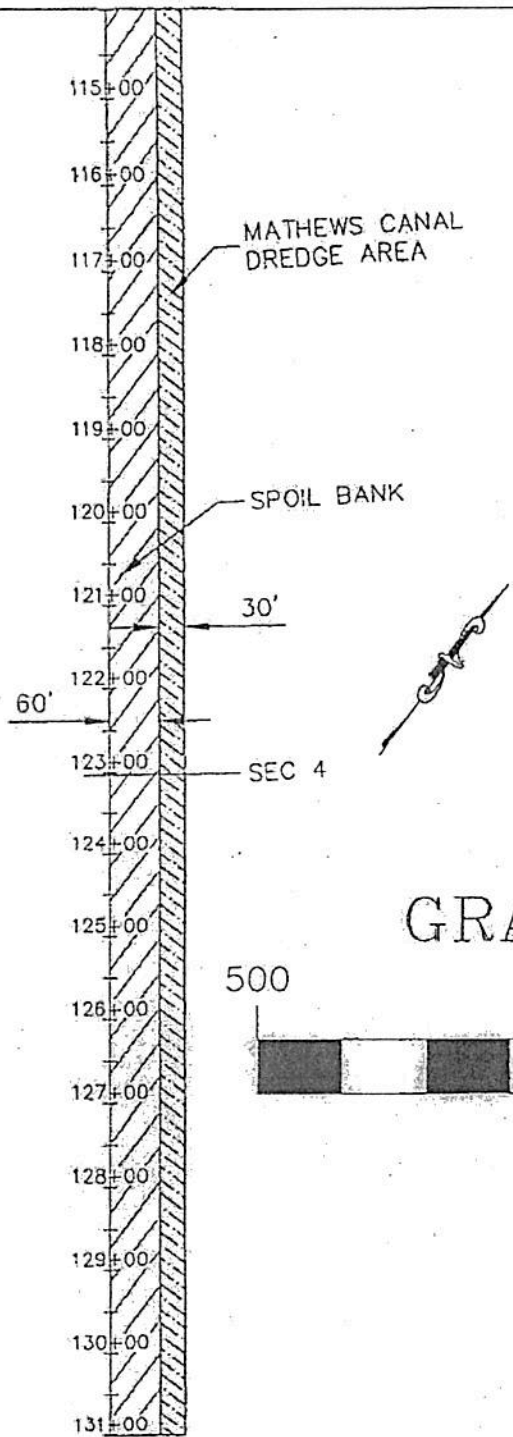


SHEET 7 OF 10

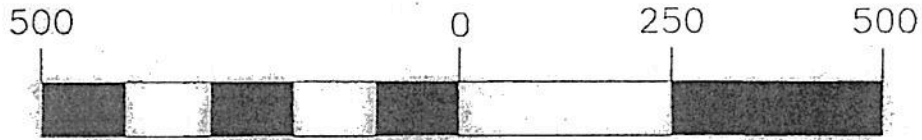
LAFORCHE PARISH COUNCIL
 PERMIT APPLICATION
 TO CLEAN OUT THE MATHEWS CANAL
 PLAN VIEW
 DATE: MARCH, 2007 SCALE: 1" = 500'



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 ph. (985)632-5596, fax (985)632-5628
 JPlaisance@JWaynePlaisance.com



GRAPHIC SCALE



(IN FEET)
1 inch = 500 ft.

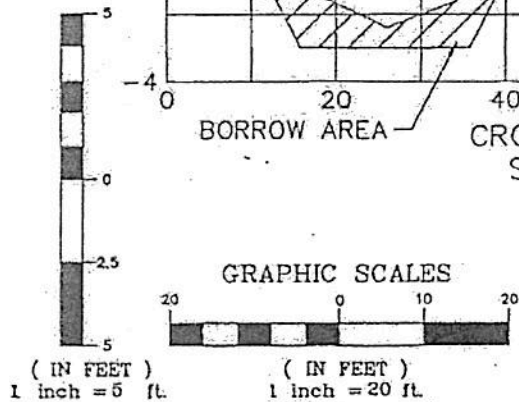
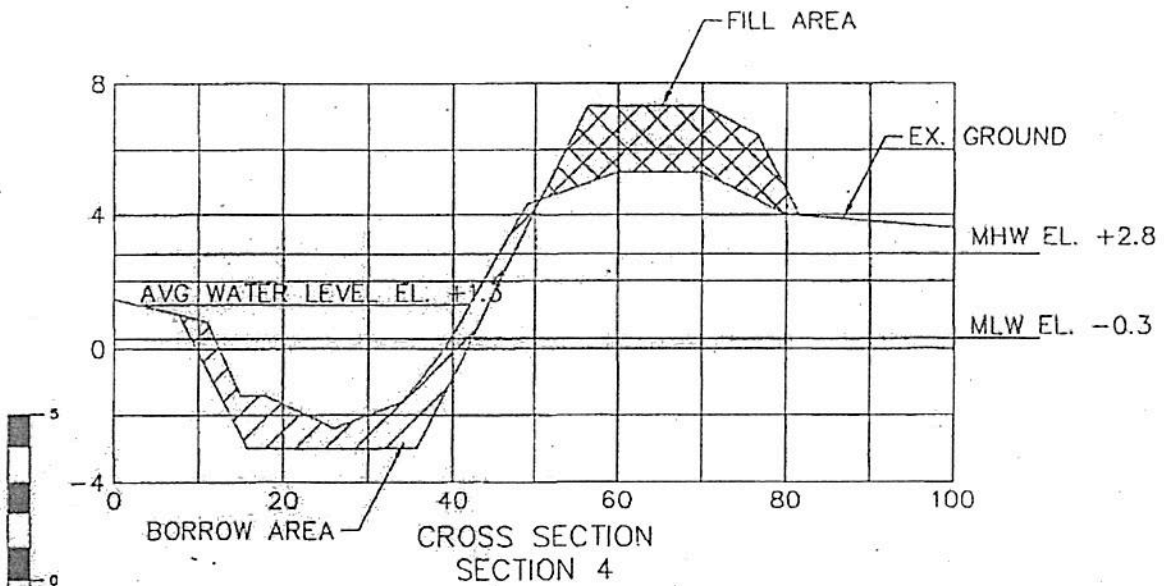
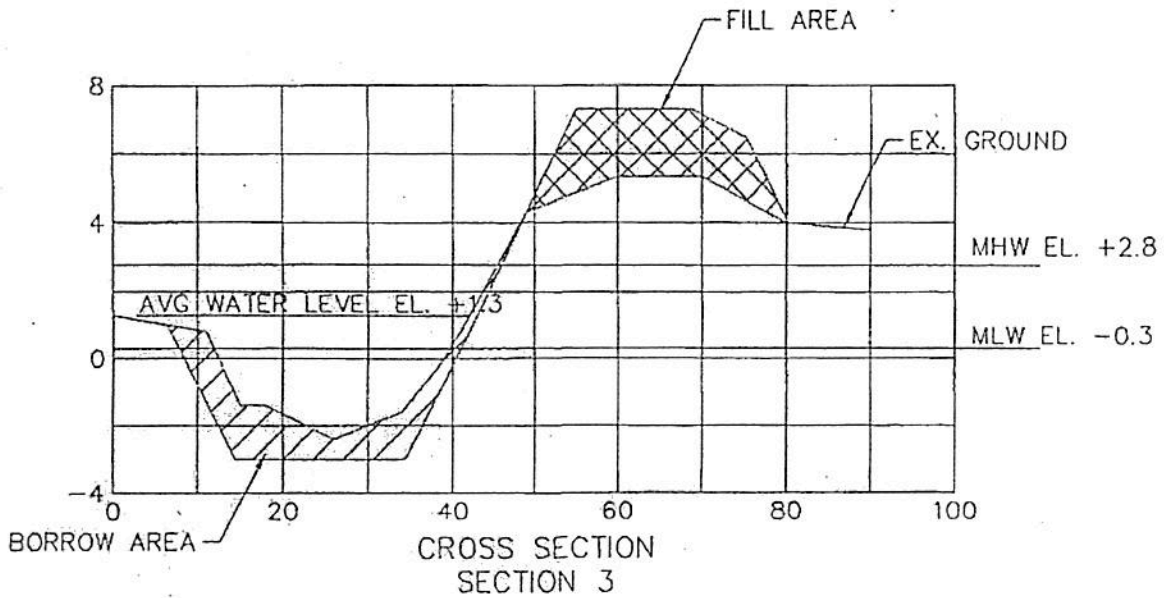
NOTE:
MEAN HIGH WATER EL. +2.8
MEAN LOW WATER EL. +0.3
THERE WILL BE APPROX. 20,000 cy OF
MATERIAL DREDGED ON THIS PROJECT.

SHEET 8 OF 10

LAFORCHE PARISH COUNCIL
PERMIT APPLICATION
TO CLEAN OUT THE MATHews CANAL
PLAN VIEW
DATE: MARCH, 2007 SCALE: 1" = 500'



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NOTE:
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 MEAN LOW WATER EL. +0.3
 THERE WILL BE APPROX. 20,000 cy OF
 MATERIAL DREDGED ON THIS PROJECT.

LAFORCHE PARISH COUNCIL
 PERMIT APPLICATION
 TO CLEAN OUT THE MATHEWS CANAL
 CROSS SECTION VIEW
 DATE: MARCH, 2007 SCALE: 1" = 20', 1"=5"



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 ph. (985)632-5596, fax (985)632-5628
 JPlaisance@JWaynePlaisance.com

Zeringue, Furcy J MVN

From: Herman, John M MVN
Sent: Tuesday, November 06, 2007 12:47 PM
To: Zeringue, Furcy J MVN
Subject: FW: Mathews Canal (MVN 2007-03969-CY)

Furcy, let me know what you need from me to facilitate S&E action.

John M. Herman
U.S. Army Corps of Engineers
Central Evaluation Section
Phone: (504) 862-1581
Fax: (504) 862-2574/2117
john.herman@us.army.mil

Andre Uzee, David Poincon

Boudreau

-----Original Message-----

From: Herman, John M MVN
Sent: Tuesday, November 06, 2007 11:51 AM
To: 'Andre Uzee'
Cc: Zeringue, Furcy J MVN
Subject: RE: Mathews Canal (MVN 2007-03969-CY)

Andre,

This project has unauthorized activities involved and will need to go through our Surveillance and Enforcement Section for further processing. Furcy Zeringue will handle the unauthorized work and his number is (504) 862-2099. Also, I spoke with him about the other work (i.e., ditch maintenance and relocation) that is occurring on the sugar cane field side. He said that was OK since it is within a pumped system on active agricultural land and is considered ongoing maintenance.

In regard to the drawings, the plan view drawings need to reflect exactly what's out there - existing conditions. For example, your plan views should show the existing levee on the opposite side of Mathews Canal to include the cut grass/cattail along the fringe of the canal, the wetland area between the canal and existing levee, and the existing drainage ditch on the sugar cane field side.

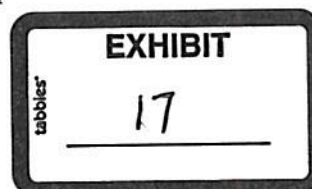
Sheets 2-4 of the plan view drawings need to show the wetland area that was cleared between the canal and the levee. Also, sheets 3 & 4 need to show the dredge work that was done in the canal to include dimensions. You can also add this to your notes if necessary. One way to setup your drawings is to show the existing conditions on the top half of the page and show the proposed project on the bottom half of the page. If not, then enlarge drawing enough to show what is being proposed. If necessary, add any pertinent info to the note section for that page. The note sections font size on each page can be reduced in size. This will free up some space. Also, the plan views don't have to show so much property to the north and south sides of the property. We already know there's mostly swamp to the northeast and agricultural land to the west and southwest of the project. As such, you can show a little of each and label. This will also free up some additional space.

Sheet 5 of the plan view drawing needs to indicate what is to take place in Mathews Canal from point B southeastwardly to Company Canal (i.e., if no work is to take place, then indicate so on drawing). Also, sheet 5-9 notes should say that the work will be done from the existing levee from point B to C to D. Also, you may want to include a note that silt curtains will be placed along the levee to prevent runoff of unconsolidated fill material to enter adjacent wetlands. Once the newly placed dredged material stabilizes, then the silt curtains can be removed.

Sheet 6 of the plan view drawing I think needs to be flipped upside down.

Sheet 10 & 11 of the cross-section views should be labeled as a typical plan views for

1



Points A to B and Points B to C to D. Also, the cross-sections need to reflect existing conditions as indicated above. That is, they need to show the opposite side of the levee across Mathews Cnl to include the cutgrass along the sides for point A to B, and swamp for points B to C to D. Point A to B cross-section needs to show levee and berm that is to be reconstructed to include existing drainage ditch. Points B to C to C need to reflect existing conditions. For both cross-sections, you might want to decrease your horizontal scale from 10-foot blocks to 5-foot blocks so the profile doesn't appear too steep. Actual on site conditions are not that drastic. Also, be sure to label everything.

Would the LPG like to fill in the area between the canal and levee from point A to B and mitigate for the impacts (approx. 4 acres or so impact)? This way they will always have unimpeded access to Mathews Canal for future maintenance dredging.

Should you have any questions about the drawings, please feel free to contact me. If you have questions about the unauthorized work, call Furcy at the above number.

Thanks,

John M. Herman
U.S. Army Corps of Engineers
Central Evaluation Section
Phone: (504) 862-1581
Fax: (504) 862-2574/2117
john.herman@us.army.mil

-----Original Message-----

From: Andre Uzee [mailto:AUzee@JWaynePlaisance.com]
Sent: Tuesday, November 06, 2007 9:40 AM
To: Herman, John M MVN
Subject:

John- please review a draft copy of the Mathews canal drawing and let me know if you need some additional information. I found a couple of revisions I need to make but would like your input.

Thanks,

Andre Uzee

auzee@jwayneplaisance.com

J. Wayne Plaisance INC.

P.O. drawer 730

Galliano, La. 70345

Ph. (985) 632-5596

Fax (985) 632-5628

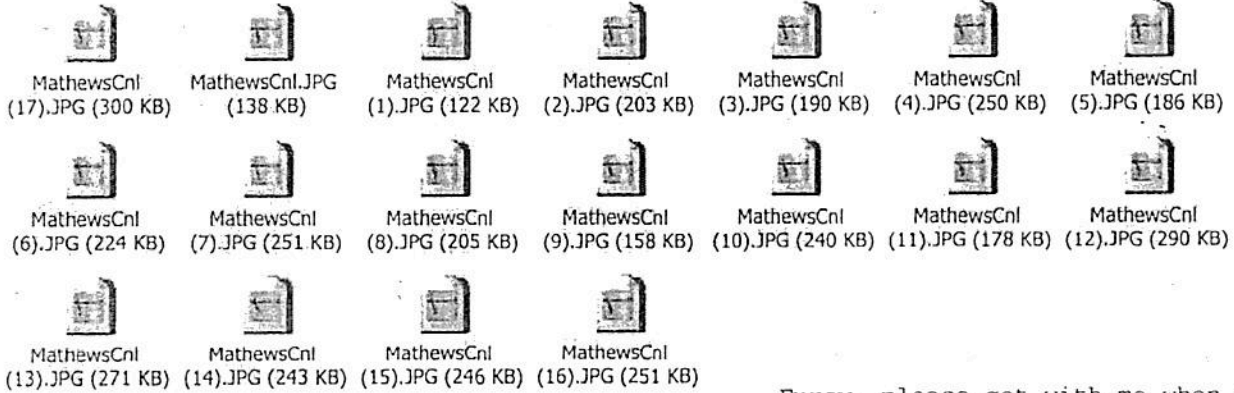
MVN 2007-02926

Oct 11, 2007-

Zeringue, Furcy J MVN

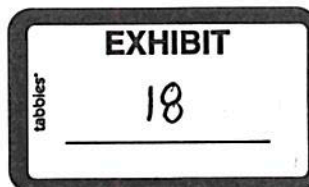
From: Hermian, John M MVN
Sent: Monday, October 15, 2007 11:51 AM
To: Zeringue, Furcy J MVN
Subject: Unauthorized activities for Laf Ph Gov't

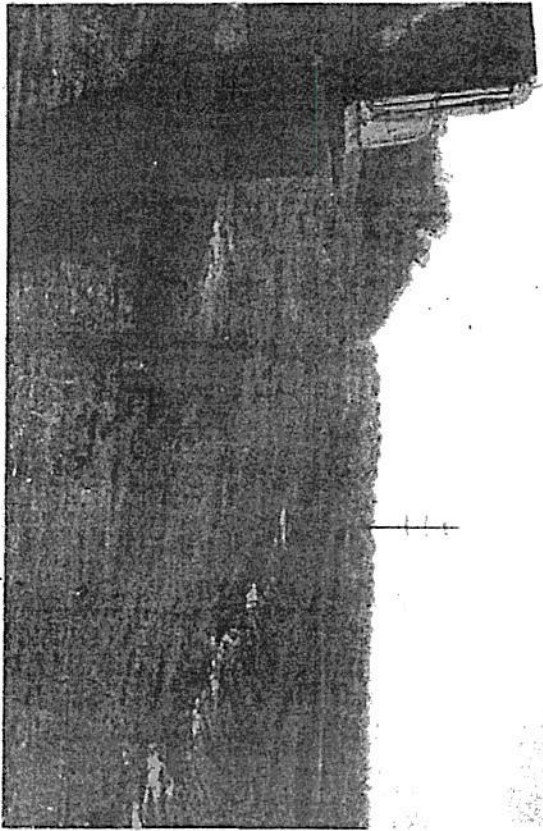
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MathewsCnl (3).JPG; MathewsCnl (4).JPG; MathewsCnl (5).JPG; MathewsCnl (6).JPG;
MathewsCnl (7).JPG; MathewsCnl (8).JPG; MathewsCnl (9).JPG; MathewsCnl (10).JPG;
MathewsCnl (11).JPG; MathewsCnl (12).JPG; MathewsCnl (13).JPG; MathewsCnl (14).JPG;
MathewsCnl (15).JPG; MathewsCnl (16).JPG



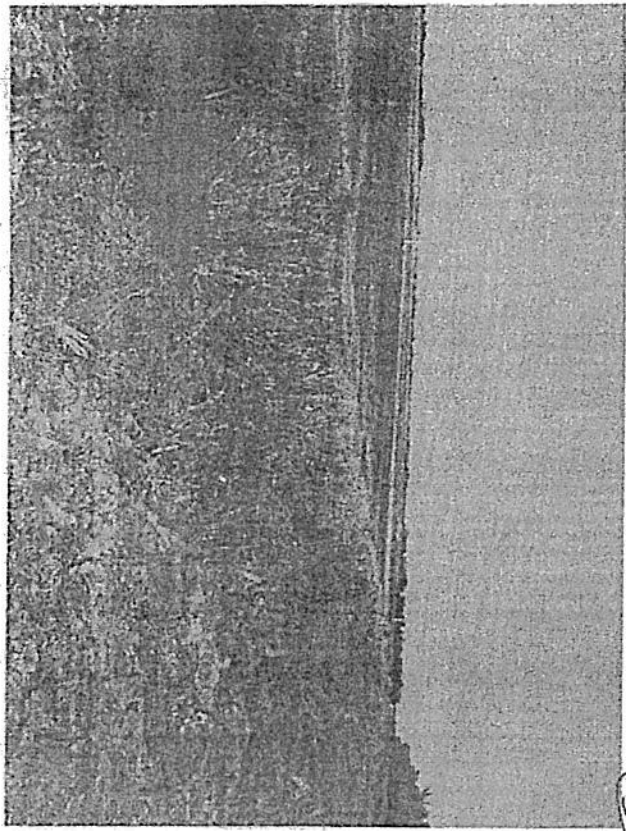
Furcy, please get with me when you get in. I have some matters we need to discuss regarding the subject pictures.

photos 2, 11, 12, 13, 14, 15, 16. show the violation.

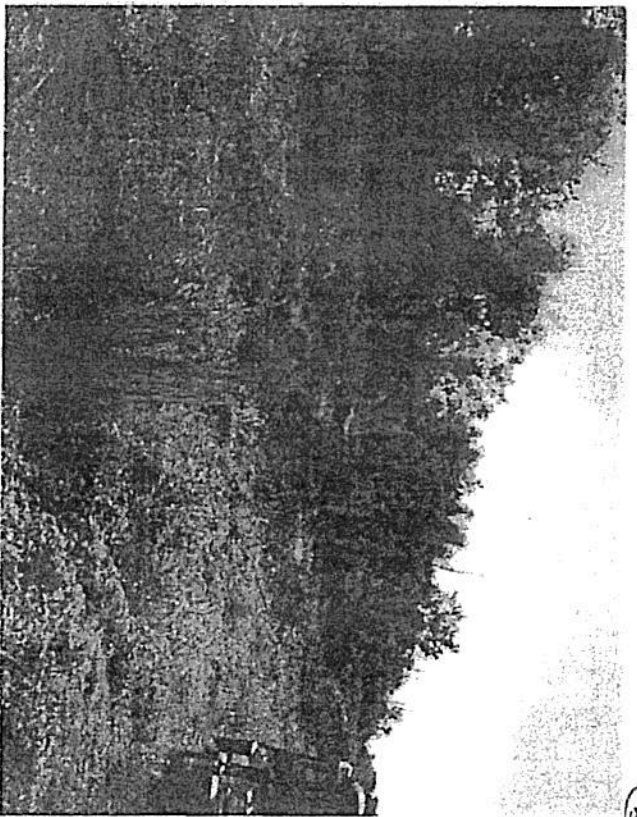




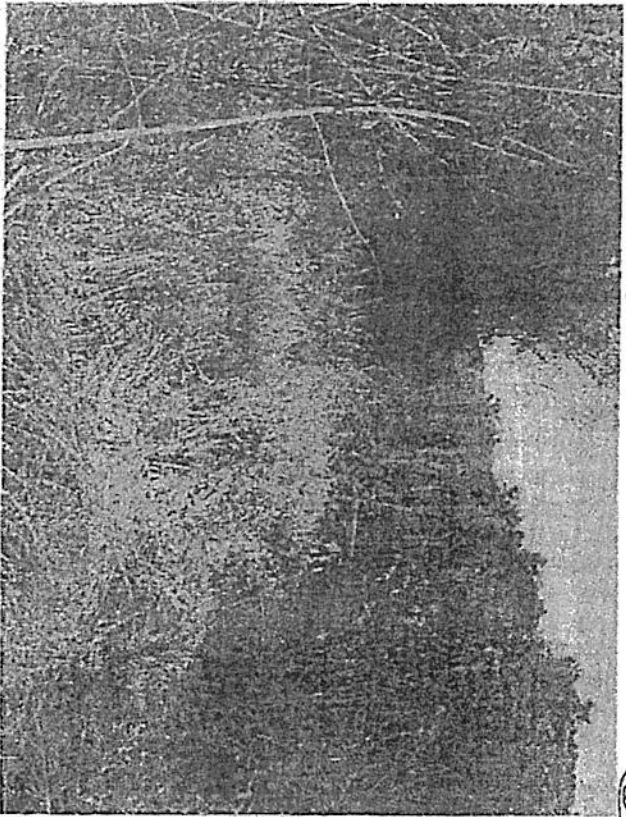
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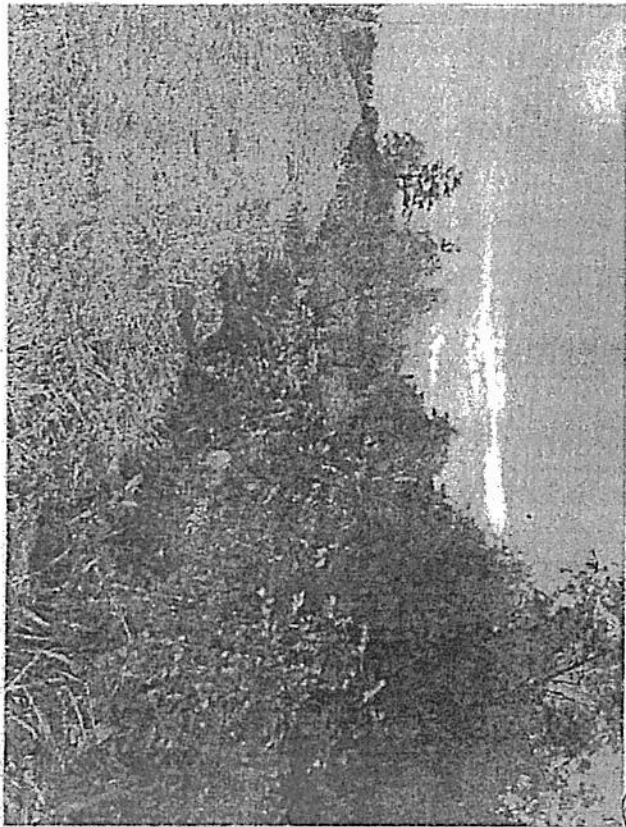
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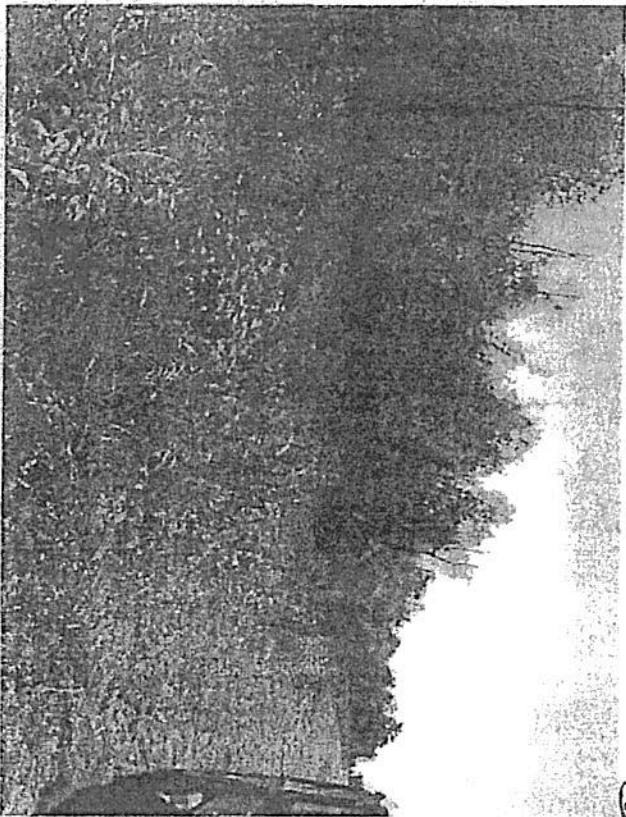
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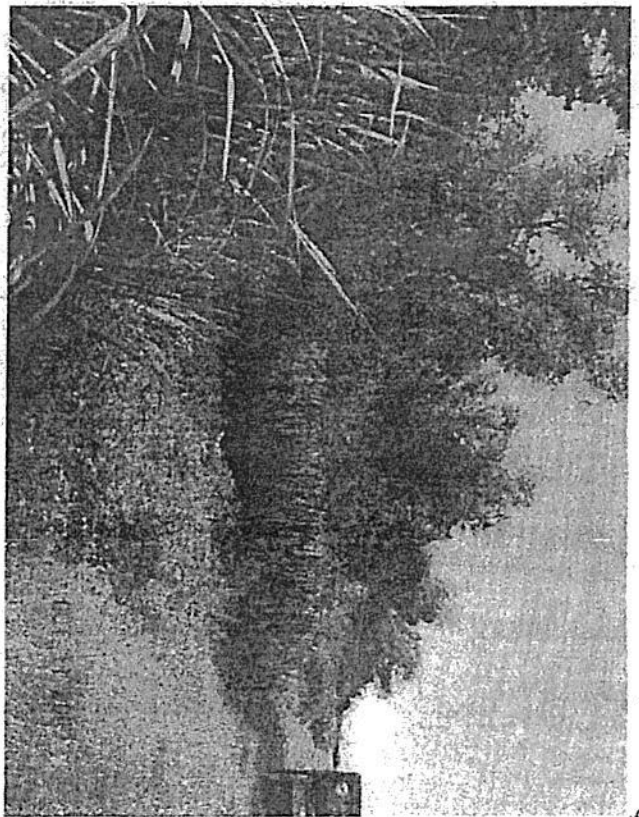
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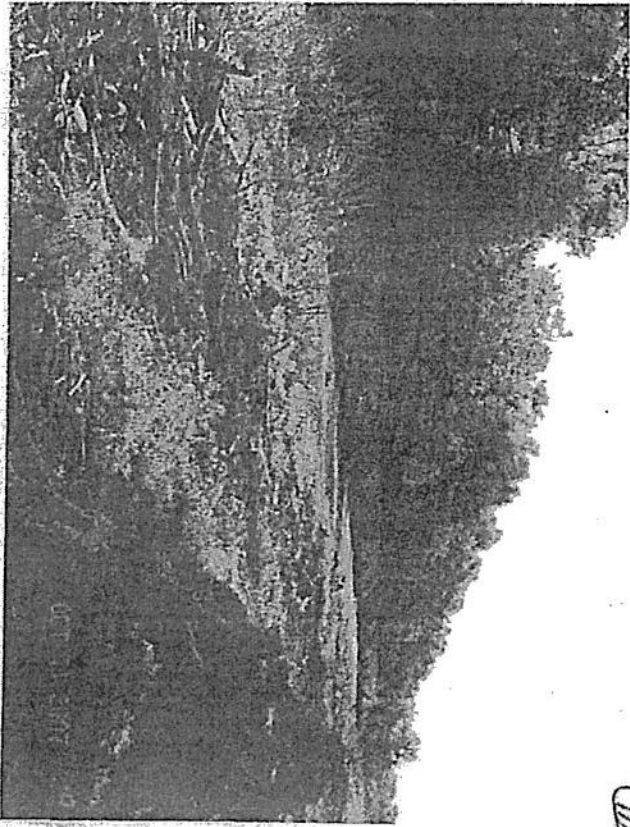
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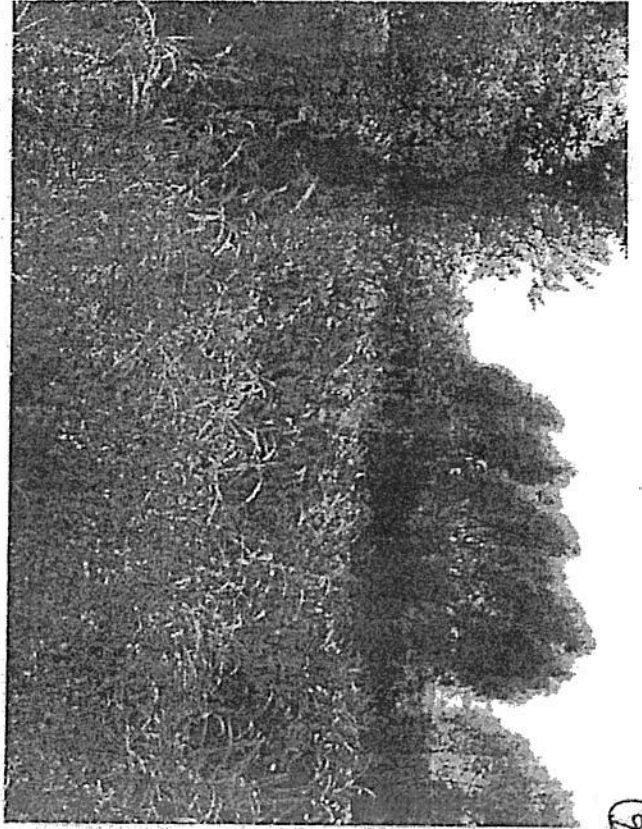
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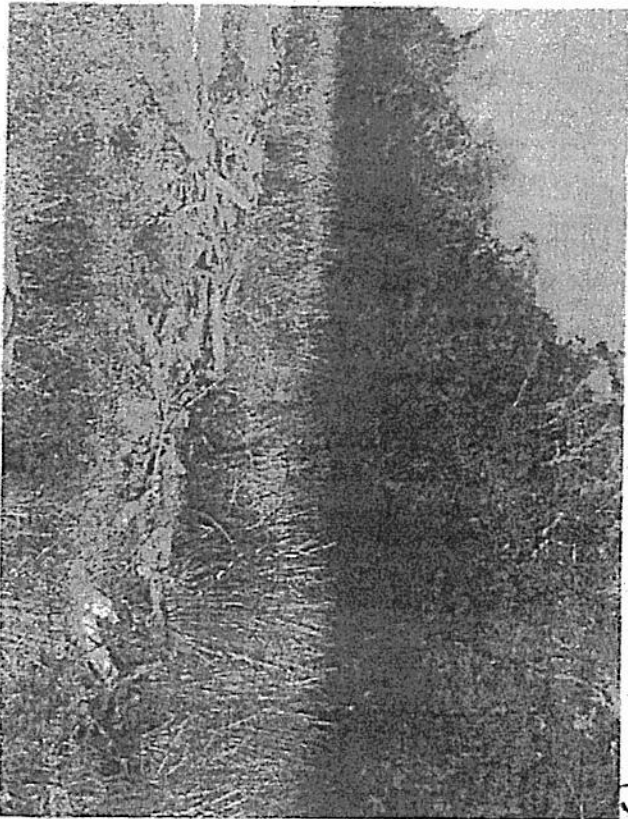
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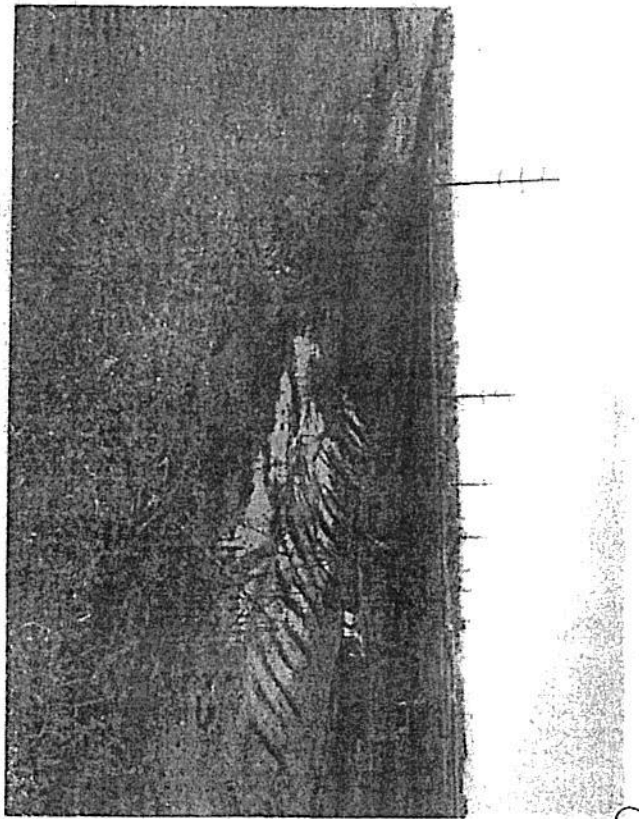
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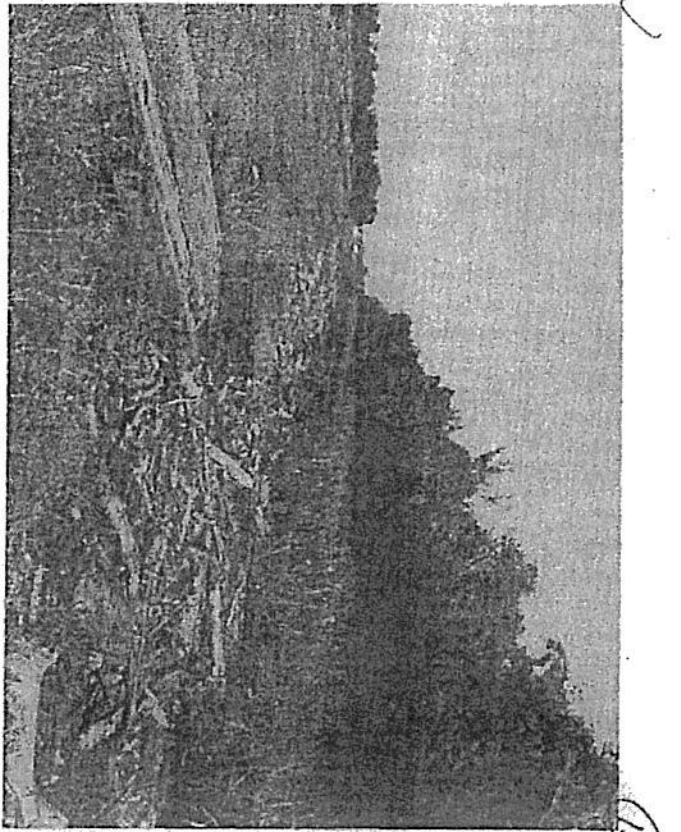
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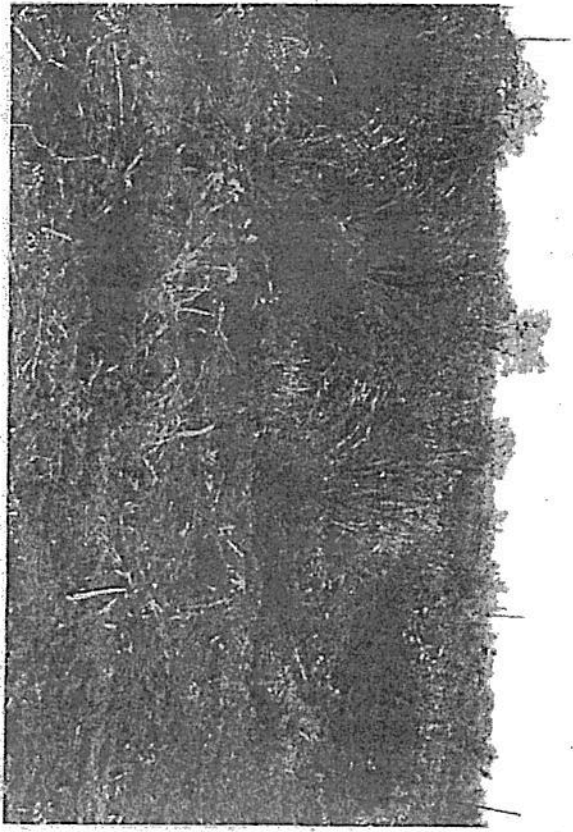
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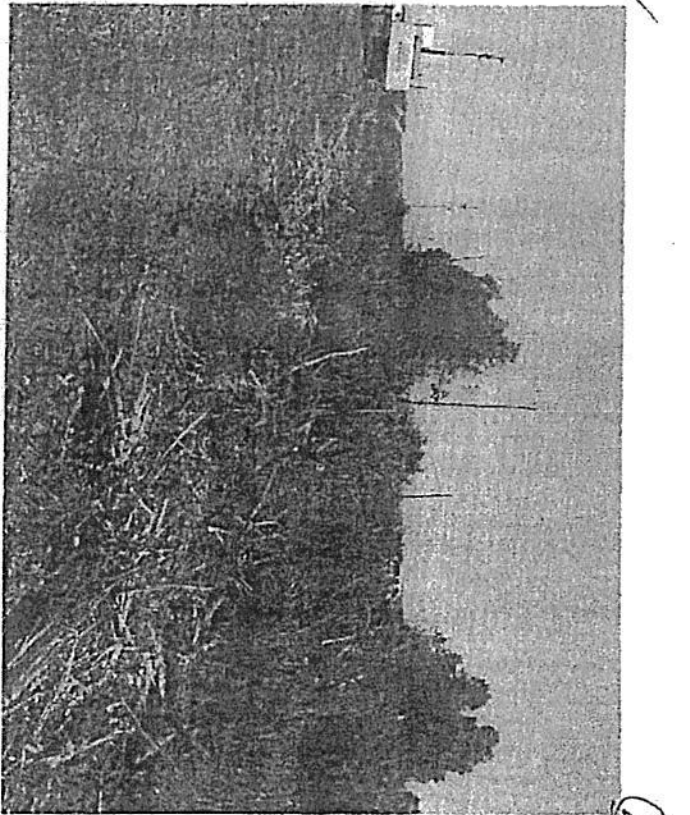
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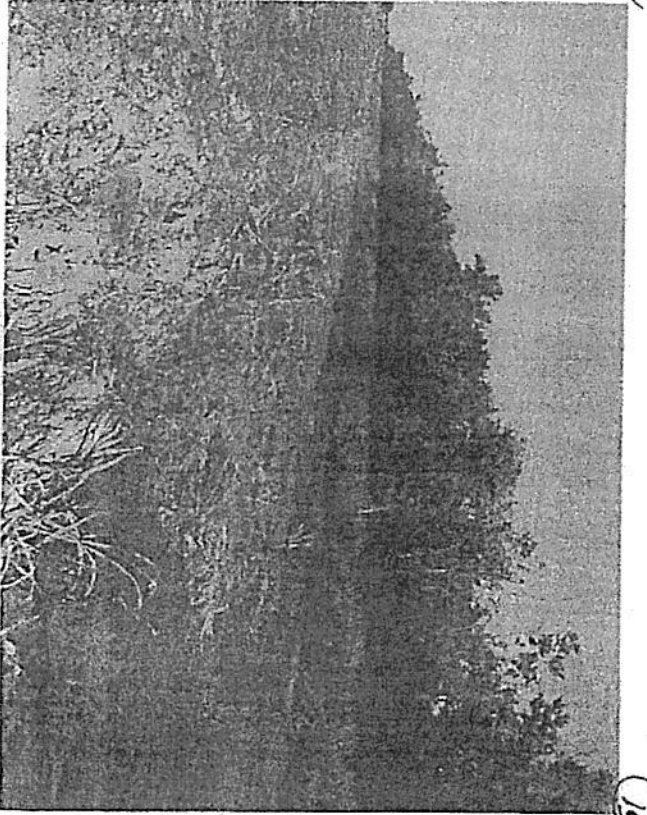
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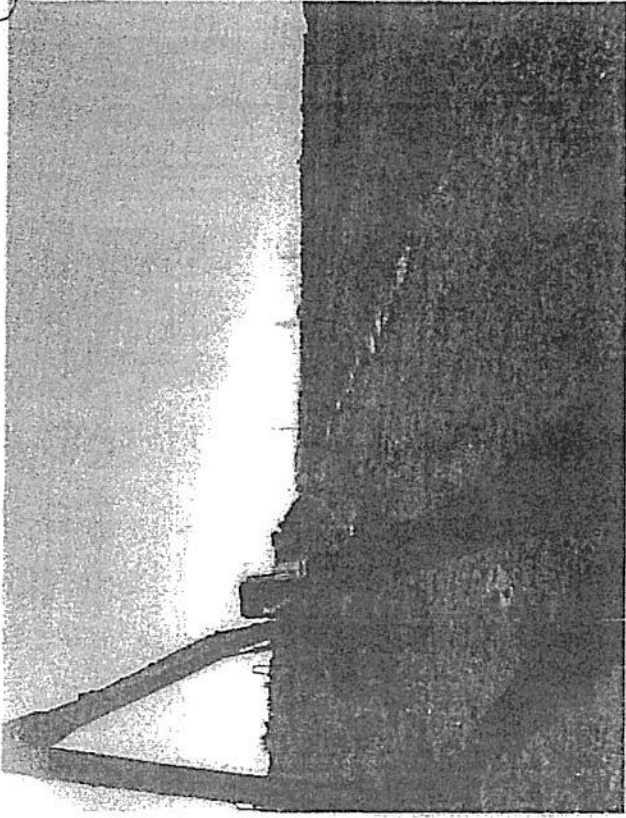


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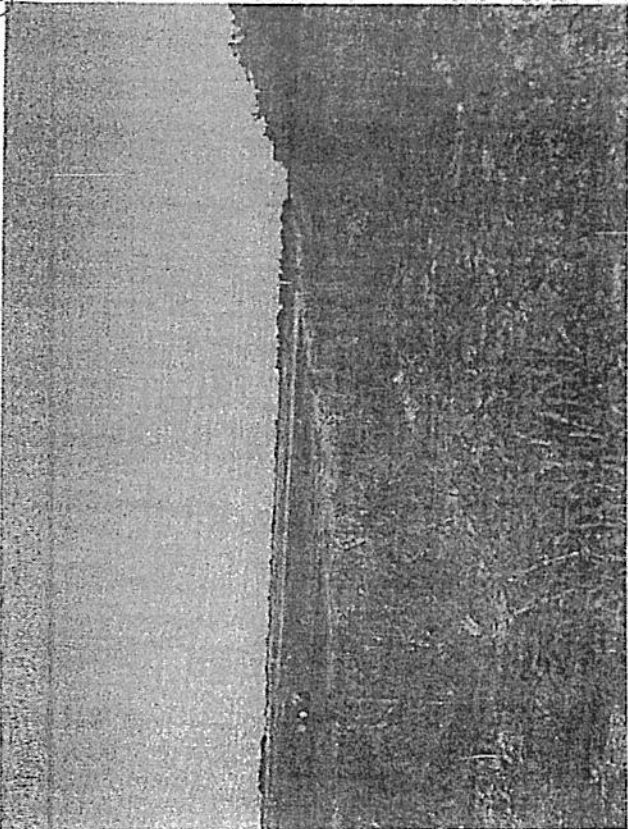


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LAFOURCHE PARISH PENALTY CALCULATION- JUNE 23, 2008

MATHEWS CANAL

On December 1, 2004, EPA issued an Administrative Order (CWA-06-2004-2703) to Lafourche Parish for four levees that were built without a permit and without considering the least damaging practical alternative. The Order required that Lafourche Parish apply for an after-the-fact permit. In the interim, it required that Lafourche Parish construct gaps in the levees as specified by a map. To date, Lafourche Parish has put in gaps at locations agreed to by the COE and EPA. Lafourche Parish has submitted an after-the-fact permit application to the COE.

On March 3, 2006, the COE inspected a new site and observed unauthorized mechanical landclearing and deposition of dredged material relative to the construction of a drainage canal (620 feet) and clearing of 8.65 acres of forested wetlands on the property boundary common to Mr. Harris Theriot and Mr. Timothy Acosta. The COE issued a Cease and Desist Order to Lafourche Parish on May 8, 2006. Lafourche Parish provided written response back to the Cease and Desist on January 10, 2007. On August 20, 2007, EPA issued an administrative complaint with a proposed penalty of \$40,000.00.

On October 11, 2007, The COE inspected the Mathew Canal Site and observed unauthorized mechanical landclearing of 2-3 acres of jurisdictional forested wetlands.

1. ECONOMIC BENEFIT- None assessed.

GRAVITY-

Multiplier- \$500.00- because they are local government

A Factors-

Harm to Human Health or Welfare- 0

Extent of Aquatic Env Impact- 0

Severity of Impacts to Aquatic Env- 0

Unique Sensitivity of Affected Resources- 0

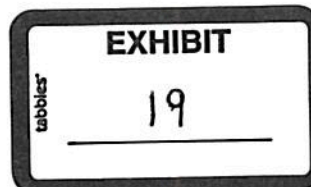
Secondary or Off-Site Impacts-0

Duration of Violation- 0

B Factors-

Degree of Culpability- 20- Lafourche Parish had prior knowledge of the Section 404 Program and they had knowledge that they needed a 404 Permit before they constructed the drainage ditch.

Compliance History the Violator- 20- Lafourche Parish has a prior history of prior 404 violations. EPA issued an Administrative Order to Lafourche Parish on December 1, 2004. Also, EPA issued an Administrative Complaint on August 20, 2007.



Need for Deterrence- 20- Lafourche Parish needs to be sent a specific deterrence message because the violations have been repeated.

2. PRELIMINARY GRAVITY- 60 X 500= \$30,000.00

3. ADJUSTMENTS TO GRAVITY

a. Recalcitrance- 0

b. Quick Settlement- 0

c. Other Factors as Justice May Require-0

d. Final Adjustments-0

4. PRELIMINARY PENALTY- 30,000.00

Litigation Considerations-0

Inability to Pay-0

Penalty Settlement Bottom Line- \$30,000.00

Proposed Penalty- \$30,000.00

MatKewer *Coal*

PENALTY CALCULATION FOR xxx 404 VIOLATION

STEP	No Action					Notes
1. ECONOMIC BENEFIT						
Use BEN to calculate econ. benefit =						
GRAVITY						
Set Multiplier (500/1,500/3k - 10k)	500					
A Factors (Scale 0-20)						
Harm to Human Health or Welfare	1					
Extent of Aquatic Env Impact	1					
Severity of Impacts to Aquatic Env	1					
Unique/Severity of Affected Resource	1					
Secondary or Off-Site Impacts	1					
Duration of Violation	1					
B Factors (0-20)						
Degree of Culpability	20					
Compliance History of the Violator	20					
Need for Deterrence	20					
2. Preliminary Gravity (A + B) x M	30,000					
3. ADJUSTMENTS TO GRAVITY						
a. Recalcitrance (+ 0 - 200%)	1					
b. Quick Settlement (-10%)	-10%	-10%	-10%	-10%	-10%	
c. Other Factors As Justice May Require	1					
d. FINAL ADJUSTMENTS (3a+3b+3c)						
4. PRELIMINARY PENALTY (1+2+3d)	30,000					
Litigation Considerations (-10%)	1					
Inability to Pay	1					
Penalty Settlement Bottom-Line						
Proposed Penalty (To start negotiations)	30,000					

SEP EVALUATION

Step 1: (Settlement without SEP)					
Step 2: > of (10%G + EB) or (25%G)					
Step 3: SEP cost					
Step 4: SEP % applied to penalty					
Step 5: Final Settlement Penalty					

CONFIDENTIAL- FOR ATTORNEY REVIEW

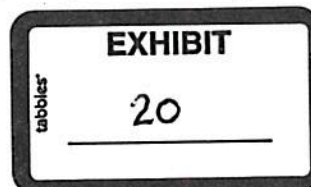
WETLANDS ENFORCEMENT SUMMARY

Lafourche Parish Case (updated 06/10/2008)

SITE: There are 2 sites that are the subject of this amended complaint. The first site consists of construction of a drainage canal (620 feet long) and the clearing of 8.65 acres of forested jurisdictional wetlands located in Section 19, Township 15 South, Range 17 East, Lafourche Parish, Louisiana. The second site consists of mechanized land clearing of 2-3 acres of forested jurisdictional wetlands located in Sections 11 and 12, Township 16 South, Range 19 East, Lafourche Parish, Louisiana.

IMPACT: The first site concerns the unauthorized discharge of fill material while constructing a drainage canal and the land clearing and/or leveling of forested wetlands. This drainage canal flows into Bayou Cutoff, a traditional navigable waterway. The second site concerns the unauthorized discharge of fill material while land clearing a forested wetland. This wetland flows into Mathews Canal, a tidal water body.

BACKGROUND: On August 8, 2001, the COE received a citizen tip that the Lafourche Parish Government was building an unauthorized levee at the St. James Canal. The COE contacted Mr. Gerald Breaux, Parish President. Mr. Breaux stated that the work was in the planning stage, that no work had begun, and that they had been in contact with the COE permit people. On September 20, 2001 the COE received another anonymous tip that the Lafourche Parish was uplifting 2 levees near Greens, using equipment and manpower of Lafourche Basin Levee District. Mr. Breaux was again contacted and he had checked and discovered that the Parish had built levees in preparation for Hurricane Allison. The Parish sent after-the-fact permit applications for all the levees that had been already constructed. The COE found the Parish had built levees: a) without a permit, b) applied for but not permitted, c) permitted, but built off the permitted route, d) permitted but constructed after the permit expired. On March 2, 2002, the COE referred the case to EPA. On August 18, 2004, EPA issued an Administrative Order to Lafourche Parish requiring restoration of 3 levees and the permitting for 1 levee. The EPA issued an amended Administrative Order on December 1, 2004 allowing Lafourche Parish to apply for an after-the-fact permit for all the levees. They were also required as an interim measure to construct gaps in the levees at locations agreed upon by EPA and the COE. To date, Lafourche Parish has put in all the gaps and they have submitted an after-the-fact permit application for all the levees. The Administrative Order is still open pending completion of the permitting process. On March 3, 2006, the COE inspected a new Lafourche Parish Site. This site was referred to EPA. On August 20, 2007, EPA issued an Administrative Complaint with a proposed penalty of \$40,000.00. On October 11, 2007, the COE inspected another Lafourche



Parish Site. This site was also referred to EPA.

AGENCY ACTION:

August 8, 2001- A citizen phoned the COE stating that the Lafourche Parish was about to begin work "at the end of Choctaw Road". Mr. Breaux, Parish President was contacted and questioned. He stated that the Parish was contemplating such a levee and would coordinate with the COE permit people

September 19, 2001- Information was again received by a citizen that the Parish was uplifting 2 levees near Greens, using equipment and manpower of Lafourche Basin Levee District.

September 19-21, 2001- Efforts to contact both parties proved futile.

September 20, 2001- Two after-the-fact permits applications were received from the Parish for levees in the Chackbay area.

September 25, 2001- Mr. Breaux phoned in response to the COE's numerous calls to his office. He stated, in part, the following:

- a) All work had been stopped at the Gheens site.
- b) When confronted with the 2 after-the-fact applications, he said that when they last spoke, they had talked about emergency permitting. After the call, he thought of the subject sites and submitted the after-the-fact permit applications. A verbal Cease and Desist Order was issued.

October, 2001-A written Cease and Desist Order was issued.

October 3, 2001- The COE and Lafourche Parish inspected the alleged violations north of Highway 304 and portions of the levees south of Highway 304.

October 23, 2001-The COE and Lafourche Parish inspected the remaining levee violations north of Highway 304.

October 24, 2001- The COE received a phone call from a citizen alleging that the Lafourche Levee Basin District was performing levee work for the Parish.

October 24, 2001- The Lafourche Basin District was contacted and they stated that they were to commence work tomorrow on a levee for the Parish.

October 24, 2001-Mr. Breaux was contacted and confirmed that they were preparing to commence work in a pasture. The COE explained that the Parish should be requesting jurisdictional determinations from the COE prior to beginning any work in possible wetlands.

November 7, 2001- The COE phoned Mr. Breaux and explained that he should check records of

equipment and budget to determine if any other work was performed within the last five years that the COE should look at now so all past work could be resolved at the same time.

March, 2002-The COE and the Parish discuss interim protection matters. The case is referred to EPA for enforcement.

July 3, 2003- EPA sends the Parish a notification letter informing them that the case had been referred to EPA.

October 22, 2003- The COE and EPA met with the Parish to discuss the violations and to inform them of the possible alternatives that might be considered for settlement of the matter.

August 18, 2004- EPA issues an Administrative Order to the Respondent for restoration of Levees B-D and submittal of an after-the-fact permit application for Levee A and Reed and Dean Toups Levee System.

November 11, 2004- EPA met with the COE to discuss locations for gaps that will have to be constructed.

December 1, 2004- EPA issued an Amended Administrative Order which required installation of gaps in the levees and the submittal of an after-the-fact permit application for the levees. Levees which are not permitted will be required to be restored.

March 23, 2005- The Parish submitted an after-the-fact application for all the levees to the COE and a copy was sent to EPA

April 8, 2005- The Parish sent a letter to EPA to inform us that the gaps had been installed in all of the locations specified by the COE and EPA.

June 9, 2005- EPA made a site visit to the Parish to view the gaps in the levees.

November 3, 2005- EPA sent comments to the COE concerning the permitting of all of the levees. EPA recommended that a COE permit be denied for the activities as currently proposed.

March 3, 2006- The COE inspected a new site and observed unauthorized mechanical landclearing and deposition of dredged material relative to the construction of a drainage canal (620 feet long) and clearing of 8.65 acres of forested wetlands.

May 8, 2006- The COE issued a Cease and Desist to Lafourche Parish.

January 10, 2007- Lafourche Parish provided a written response back to the Cease and Desist.

August 20, 2007- EPA issued an Administrative Complaint with a proposed penalty of \$40,000.00.

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May 8, 2006- The COE issued a Cease and Desist to Lafourche Parish.

January 10, 2007- Lafourche Parish provided a written response back to the Cease and Desist.

August 20, 2007- EPA issued an Administrative Complaint with a proposed penalty of \$40,000.00.

October 11, 2007- The COE inspects another new site and observed unauthorized mechanical landclearing of 2-3 acres of jurisdictional forested wetlands. Lafourche Parish had submitted to the COE a permit application for this site. Lafourche Parish had begun the work before acquiring their permit.

January 29, 2008- The COE refers the new site to EPA.

Strategy: Currently, EPA is waiting on the permitting process between the COE and the Parish for Administrative Order, Docket No. CWA-06-2004-2703. EPA has sent comments to the COE concerning the proposed permit. If the Parish is unable to obtain a permit/s, the areas that will not be permitted shall be restored to their natural hydrology and allowed to renegotiate naturally.

On August 20, 2007, EPA issued an Administrative Complaint for the second site that the COE referred. Since then the COE has found an additional site which was referred to EPA. It is recommended that EPA issue an Amended Complaint to cover both the second and third violations. Lafourche Parish is very aware of the Section 404 Program and these violations are very flagrant. The COE will handle the potential permits for these sites.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 Ross Avenue
Dallas, Texas 75202-2733

Action: Notice of Proposed Assessment of Clean Water Act Section 309(g) Class II
Administrative Penalty and Opportunity to Comment

EPA is authorized under Section 309(g) of the Clean Water Act, 33 U.S.C. § 1319(g), to assess a civil penalty after providing the person subject to the penalty notice of the proposed penalty and the opportunity for a hearing, and after providing interested persons public notice of the proposed penalty and a reasonable opportunity to comment on its issuance. Under Section 309(g), any person who without authorization discharges a pollutant to a navigable water, as those terms are defined in Section 502 of the Act, 33 U.S.C. § 1362, may be administratively assessed a civil penalty of up to \$137,500 by EPA. Class II proceedings for Section 309(g) of the Clean Water Act are conducted in accordance with the "Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties, Issuance of Compliance or Corrective Action Orders, Revocation, Termination or Suspension of Permits", 64 Fed. Reg. 40138 (July 23, 1999)("Part 22"), including Rules related to Administrative Proceedings not Governed by § 554 of the Administrative Procedures Act, 40 C.F.R. §§ 22.50 - 22.52 (64 Fed. Reg. 40138, 40190). The Federal Register is available at most libraries.

The procedures by which the public may submit written comments on a proposed Class II penalty order or participate in a Class II penalty proceeding are set forth in Part 22. Any person wishing to comment on the proposed penalty order must submit written comments to the Hearing Clerk identified below within thirty (30) days after the issuance of this public notice.

Pursuant to Section 309(g)(4) of the Clean Water Act, 33 U.S.C. § 1319(g)(4), EPA is providing public notice of the following proposed Class II administrative penalty assessment:
Name and address of complainant:

Miguel I. Flores, Director
Water Quality Protection Division
U.S. EPA, Region 6
U.S. Environmental Protection Agency
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Name of respondent:

Lafourche Parish
P.O. 5548
Thibodaux, LA 70302



Location of alleged violations: The first site is located at Section 19, Township 15 South, Range 17 East, Lafourche Parish, Louisiana. This involved the construction of 620 feet of a drainage canal and the clearing of 8.65 acres of forested, jurisdictional wetlands. The second site is located at Sections 11 and 12, Township 16 south, Range 19 East, Lafourche Parish, Louisiana. This involved the mechanized land clearing of 2-3 acres of forested jurisdictional wetlands.

Nature of alleged violations: Discharge of "dredged" and/or "fill material" to construct a drainage canal and the clearing of 8.65 acres of forested wetlands. The drainage ditch and cleared wetlands flow into Bayou Cutoff, a navigable water and waters of the U.S. Discharge of "dredged" and/or "fill" to clear 2-3 acres of forested wetlands adjacent to Mathews Canal, a tidal water body.

Proposed penalty: Up to \$137,500

Name of Case: Lafourche Parish

Docket Number: CWA-06-2007-2725

Date filed with Regional Hearing Clerk: June 26, 2008

Mailing address, and telephone number of Regional Hearing Clerk:

Ms. Lorena Vaughn
Regional Hearing Clerk (6RC-HO)
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue
Dallas, Texas 75202-2733
(214) 665-8021

FOR FURTHER INFORMATION: Persons wishing to receive a copy of Part 22, review the complaint or other documents filed by the parties in this proceeding, comment upon the proposed penalty assessment, or participate in any hearing that may be held, should contact the Regional Hearing Clerk identified above. Unless otherwise noted, the public record for the proceeding is located in the EPA Regional Office at 1445 Ross Avenue, Dallas, Texas 75202-2733, and the file will be open for public inspection during business hours. Persons wishing to receive information on the proceeding, may contact: Donna Mullins, Marine and Wetlands Section, U.S.

EPA, 1445 Ross Avenue, Dallas, Texas 75202-2733, (214) 665-7576.

In order to provide opportunity for public comment, EPA will not take final action in this proceeding prior to thirty (30) days after issuance of this notice.

FILE

INTERNAL TRACKING SHEET FOR JURISDICTIONAL DETERMINATIONS

(to be used for accounts where no letter is being sent)

Account #: MVN 2007-02926-SZ Account Name: Lafourche Parish Government

DETERMINATION DATE: 15 Oct. 2007 SUBJECT: Jurisdictional Determination

MEMORANDUM FOR CEMVN-OD-SC, ATTN: John Herman

MEMORANDUM FROM CEMVN-OD-SS, Surveillance & Enforcement Section

PARISH: Lafourche SECTIONS 11 - 15 TWP 16S RANGE 19E

PROPERTY/PROJECT DESCRIPTION: proposed ROW for Mathews Canal cleaning along the south spoil bank of the canal and a tributary. total length is approximately 18,500 linear ft and 80-100' width. Approximately 2.3 ac. of mechanized land clearing and 0.2 ac. of redeposition into tidal wetlands.

OWNER/COMPANY NAME: Lafourche Parish applied with CZM (P20071009), J. Wayne Plaisance, Inc. listed as agent.

1. After careful review, the Surveillance & Enforcement Section has determined that this property/project is:

NONWETLAND

NO PERMIT REQUIRED

MIXED

AND/OR SECTION 10

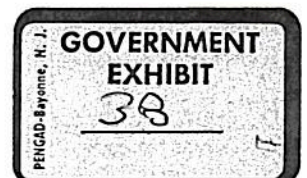
WETLAND

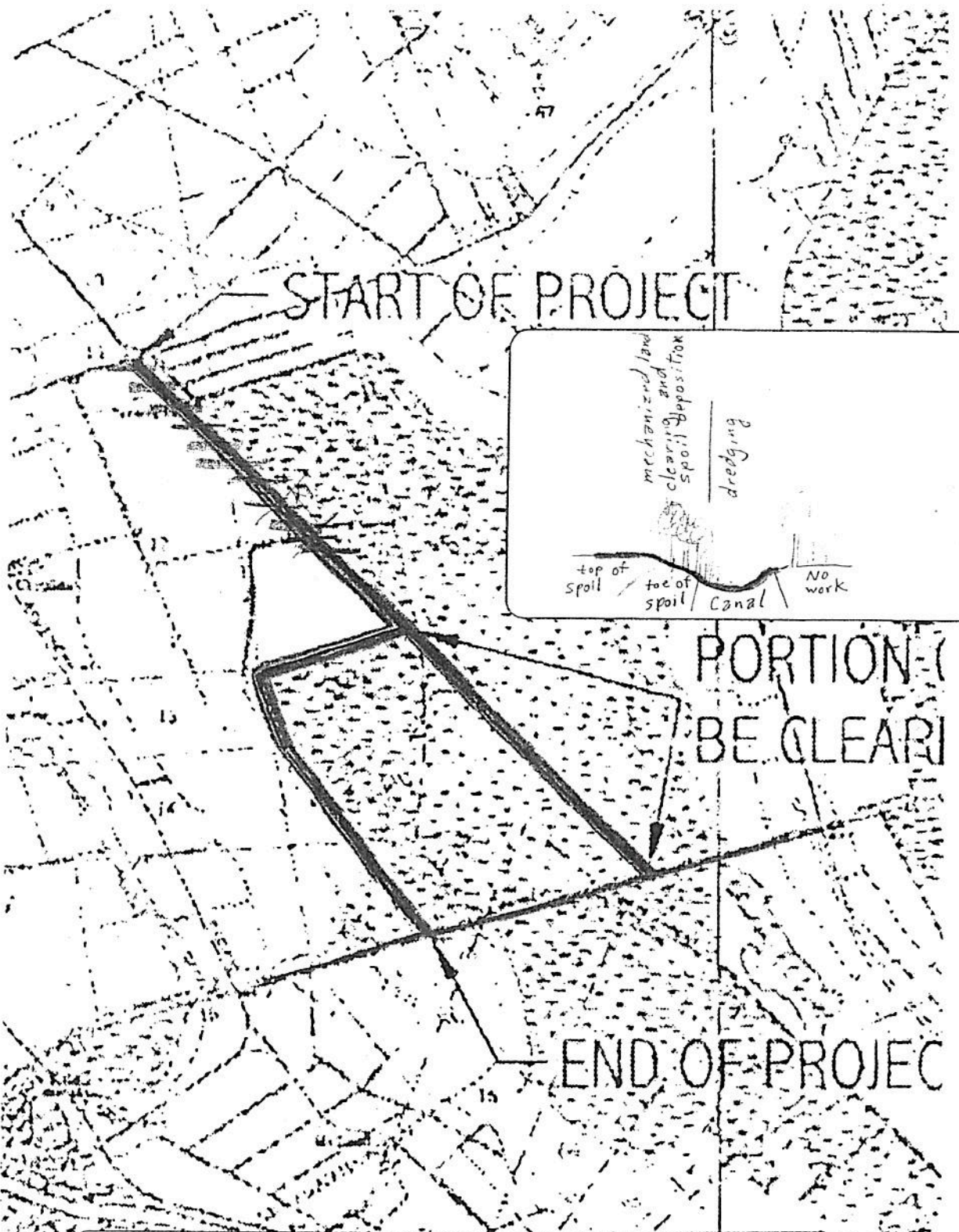
OTHER: Water of U.S.

A map is enclosed that outlines the wetland or nonwetland area that has been delineated.

2. Additional comments: Unauthorized activities on property. Violation tracking No. T2007-1033.

3. P.O.C. for this determination: Furcy Zeringue, x 2099





U.S.A.C.E. J. J. I In-House
 Wetland (10249) Non-Wetland
 Water of U.S. (1049) unauthorized activity
 15 Oct. 2007 Lafourche Ph. MVN-2007-029265

U.S. ARMY CORPS OF ENGINEERS
APPROVED
 JURISDICTIONAL DETERMINATION

Edited APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

To view the unedited version of the form go to: <http://www.mvn.usace.army.mil/regulatory/finalform.htm>.

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 15 Oct 2007

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: MVN 2007-02926-SZ

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Louisiana County/parish/borough: Lafourche City: Mathews

Center coordinates of site (lat/long in degree decimal format): Lat. 29.669451° N, Long. 90.515084° W.

Universal Transverse Mercator:

Name of nearest waterbody: Mathews Canal

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Mathews Canal

Name of watershed or Hydrologic Unit Code (HUC): 08090301-East Central Louisiana Coastal Louisiana

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: 15 Oct 2007

Field Determination. Date(s): 11 Oct 2007

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):

TNWs, including territorial seas

Wetlands adjacent to TNWs

Relatively permanent waters (RPWs) that flow directly or indirectly into TNWs

Non-RPWs that flow directly or indirectly into TNWs

Wetlands directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs

Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs

Impoundments of jurisdictional waters

Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: 18000 linear feet: 40 width (ft) and/or acres.

Wetlands: 10.3 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known):

2. Non-regulated waters/wetlands (check if applicable):

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Mathews Canal.

Summarize rationale supporting determination: Mathews Canal is subject to the ebb and flow of the tides. Mathews Canal intersects Company Canal. Company Canal connects Bayou Des Allemands (3/4 mile north of its confluence with Lake Salvadore) and Bayou Lafourche and Intracoastal Waterway. All 3 connecting waters are tidal at the point of intersection with Company Canal. Both Lake Salvadore and Bayou Lafourche have direct connections with the Gulf of Mexico.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": Lower portion of the side slope of the spoli is saturated above the water level of the canal. These wetlands are contiguous with the wetlands that are tidal.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: Pick List
Drainage area: Pick List
Average annual rainfall: inches
Average annual snowfall: inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

- Tributary flows directly into TNW.
- Tributary flows through Pick List tributaries before entering TNW.

Project waters are Pick List river miles from TNW.
Project waters are Pick List river miles from RPW.
Project waters are Pick List aerial (straight) miles from TNW.
Project waters are Pick List aerial (straight) miles from RPW.
Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW:
Tributary stream order, if known:

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain:
 Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: Pick List.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover:
 Other. Explain:

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:
Presence of run/riffle/pool complexes. Explain:
Tributary geometry: Pick List
Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: Pick List

Estimate average number of flow events in review area/year: Pick List

Describe flow regime:

Other information on duration and volume:

Surface flow is: Pick List. Characteristics:

Subsurface flow: Pick List. Explain findings:

Dye (or other) test performed:

Tributary has (check all that apply):

Bed and banks

OHWM (check all indicators that apply):

clear, natural line impressed on the bank

changes in the character of soil

shelving

vegetation matted down, bent, or absent

leaf litter disturbed or washed away

sediment deposition

water staining

other (list):

the presence of litter and debris

destruction of terrestrial vegetation

the presence of wrack line

sediment sorting

scour

multiple observed or predicted flow events

abrupt change in plant community

Discontinuous OHWM. Explain:

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by:

oil or scum line along shore objects

fine shell or debris deposits (foreshore)

physical markings/characteristics

tidal gauges

other (list):

Mean High Water Mark indicated by:

survey to available datum;

physical markings;

vegetation lines/changes in vegetation types.

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain:

Identify specific pollutants, if known:

(iv) **Biological Characteristics. Channel supports (check all that apply):**

Riparian corridor. Characteristics (type, average width):

Wetland fringe. Characteristics:

Habitat for:

Federally Listed species. Explain findings:

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings:

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain:

Wetland quality. Explain:

Project wetlands cross or serve as state boundaries. Explain:

(b) General Flow Relationship with Non-TNW:

Flow is: Pick List. Explain:

Surface flow is: Pick List

Characteristics:

Subsurface flow: Pick List. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

- Directly abutting
- Not directly abutting
 - Discrete wetland hydrologic connection. Explain:
 - Ecological connection. Explain:
 - Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are Pick List river miles from TNW.
Project waters are Pick List aerial (straight) miles from TNW.
Flow is from: Pick List.
Estimate approximate location of wetland as within the Pick List floodplain.

(ii) Chemical Characteristics:

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain:
Identify specific pollutants, if known:

(iii) Biological Characteristics. Wetland supports (check all that apply):

- Riparian buffer. Characteristics (type, average width):
- Vegetation type/percent cover. Explain:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings:

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: Pick List
Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
------------------------------	------------------------	------------------------------	------------------------

Summarize overall biological, chemical and physical functions being performed:

C. SIGNIFICANT NEXUS DETERMINATION

1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.
2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.
3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
 - TNWs: 18000 linear feet 40 width (ft), Or, acres.
 - Wetlands adjacent to TNWs: 10.3 acres.
2. RPWs that flow directly or indirectly into TNWs.
 - Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:

- Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: acres.
Identify type(s) of waters:

3. **Non-RPWs that flow directly or indirectly into TNWs.**

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: acres.
Identify type(s) of waters:

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:
 Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from "waters of the U.S.," or
 Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):**

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
 from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 which are or could be used for industrial purposes by industries in interstate commerce.
 Interstate isolated waters. Explain:
 Other factors. Explain:

Identify water body and summarize rationale supporting determination:

Provide estimates for jurisdictional waters in the review area (check all that apply):

Tributary waters: linear feet width (ft).

Other non-wetland waters: acres.

Identify type(s) of waters:

Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.

Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.

Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR).

Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain:

Other: (explain, if not covered above):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).

Lakes/ponds: acres.

Other non-wetland waters: acres. List type of aquatic resource:

Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Permit Application submitted by agent.

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study:

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: Lockport 7.5 min. topo, Houma and Cut Off LA 15 min topos.

USDA Natural Resources Conservation Service Soil Survey. Citation: Lafourche Parish Soil Survey.

National wetlands inventory map(s). Cite name:

State/Local wetland inventory map(s):

FEMA/FIRM maps:

100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

Photographs: Aerial (Name & Date): Lockport SE - 1998, 2004 IRs.

or Other (Name & Date): On-site photos taken by John Herman.

Previous determination(s). File no. and date of response letter:

Applicable/supporting case law:

Applicable/supporting scientific literature:

Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD:

VIOLATION REPORT FORM

DATE REPORTED: 11 Oct. 2007

ORM #: MVN-2007-02926-5Z

TRACKING #: T 2007-1033

DATE ASSIGNED: 15 Oct 2007

INVESTIGATOR: Zeringue

V-NAME: Lafourche Par. Gov.

Existing JD #: _____

d/b/a: _____

TELEPHONE NUMBERS & TYPE

V-ADDRESS: P.O. Drawer 5528

() - _____

Thibodaux, LA 70302

() - _____

AGENT: J. Wayne Plaisance, Inc.

(985) 632 - 5628

CONSULTANT: Andre Uzee

(985) 632 - 5596 ph

PERSON MAKING VIOLATION ALLEGATION:

REPORT TAKEN BY: _____

Cooper - John Herman

TELEPHONE NUMBER & TYPE

Discovered during Permit App. Site Ins.

(504) 862 - 1581

DESCRIPTION OF VIOLATION: Mechanized land clearing, dredging, and deposition of material in wetlands.

-----LOCATION INFORMATION-----

PARISH: Lafourche SITE SIZE: ~2.5 ac ^{already} impacted WW: Mathews Canal

Other site info - Permit app. for work submitted thru CZ - P 20071009 - 07/16/2007

UA Confined to Sec. 11, 12 ; HUC: 02090301 - East Central Louisiana Coastal, Louisiana

SECTION <u>11-15</u>	Quad <u>27-B: Lockport</u>	Soil Map <u>41</u>	10
TOWNSHIP <u>16 S.</u>	Lat: <u>29.669451</u>	Soil Types <u>FA</u>	AUTHORITY: 404
RANGE <u>19 E.</u>	Lon: <u>-90.515084</u>	<u>BB, AN, SK</u>	BOTH
	IR: <u>Lockport SE</u>		

EARLY RESOLUTION: DATE RESOLVED: _____ DATE CLOSED: _____

- Permit Exists - P#: _____
- Not a Regulated Activity - _____ [NPR]
- No Violation Exists - _____ [NPR]

DATE VIOLATION CONFIRMED: 11 Oct. 2007

OTHER RESOLUTION: DATE RESOLVED: _____ DATE CLOSED: _____

- Admin. Close - _____
- Restoration - _____
- After-the-Fact - Application Recd _____ Forwarded _____

INITIAL CONTACT DATE: 11 Oct. 2007 BY: John Herman (OD-50)

NOTES: Conducted Field Site Inspection and discovered the work had already begun to pl. beyond the area - from entire length (with ATV) photographed along the way - Issued verbal CVD to agent and crew for work estimated ~4000' of mechanized clearing in wetlands including Mathews Canal and ~6000' of excavation and spoil deposition - primarily in keyed within road bank - 11/3/07

15 Oct. 2007 - I called Andre J. King to re-estimate CVD Revised 4 May 2006
- both assessed area is now work should be done. 1/1/08

Memo For Information

SUBJECT: Violation No. MVN-2007-02926-SZ-Mathews Canal Cleanout; Mrs. Charlotte Randolph, Lafourche Parish President

- 11 Oct. 2007 – Mr. John Herman, while conducting a site inspection for the processing of a standard permit application, discovered work associated with the proposed cleanout of Mathews Canal had already begun. The site is located in Sections 11,12,13,14, and 15, Township 16 South, Range 19 East, near Mathews, Louisiana.
- The violation is the unauthorized dredging in a Navigable (tidal) water-Mathews Canal, and the unauthorized deposition of fill into jurisdictional waters and wetland (Mathews Canal and its abutting wetlands) in violation of Sec. 301 of CWA and Sec 10 of RHA of 1899. Approximately 2.3 ac (4000' X 25') of wetlands cleared, and 0.21-ac (600' X 15') filled, and 600' of Mathews Canal dredged.
- 15 Oct. 2007 – Verbal C&D issued to Mr. Andre Uzee, agent for Lafourche Parish Council and Mr. Ray Cheramie, Lafourche Parish Council, based on conversations with and memo of violation description and photos received from John Herman. I was assured the work has stopped in Mathews Canal. I also made them aware that since there are two cases for the parish at EPA, they would also request this one. Permit processing suspended until resolution of legal issues.
- 6 Nov. 2007 – Communicated with John Herman and Andre Uzee that work in the drainage in the cane field did not require a permit and could continue.
- Jan 2008 – EPA requested this case based on the two pending actions. I forwarded the application and John's memo and photos to Donna. She said they are considering combining this with Rouse/Theriot Canal Violation in a combined Complaint.
- 15 Apr. 2008 – Called Agent, Andre Uzee, to verify compliance with C&D. He said no further work done on Mathews Canal. He also informed me that Mr. Cheramie's appointment as Director of Public Works was not approved by the Council.



VIOLATION REPORT FORM

DATE REPORTED: 11 Oct. 2007

ORM #: MVN-2007-02926-5Z

TRACKING #: T 2007-1033

DATE ASSIGNED: 15 Oct 2007

INVESTIGATOR: Zeringue

V-NAME: Lafourche Par. Gov.

Existing JD #: _____

d/b/a: _____

TELEPHONE NUMBERS & TYPE

V-ADDRESS: P. O. Drawer 5528

() - _____

Thibodaux, LA 70302

() - _____

AGENT: J. Wayne Plaisance, Inc.

(985) 632 - 5628

CONSULTANT: Andre Uzee

(985) 632 - 5596 ph

PERSON MAKING VIOLATION ALLEGATION:

REPORT TAKEN BY: _____

Corps - John Herman

TELEPHONE NUMBER & TYPE

discovered during Permit App. Site Ins.

(504) 862 - 1581

DESCRIPTION OF VIOLATION: Mechanized land clearing, dredging, and deposition of material in wetlands.

-----LOCATION INFORMATION-----

PARISH: Lafourche SITE SIZE: ~2.5 ac - ^{already} impacted WW: Mathews Canal

Other site info - Permit app. for work submitted thru CZ - P 20071009 - 07/14/2007
UA Confined to Sec. 11, 12 ; HUC: 08090301 - East Central Louisiana Coastal, Louisiana

SECTION 11-15

Quad 27-B: Lockport

Soil Map 41

10

TOWNSHIP 16 S.

Lat: 29.669451

Soil Types FA

AUTHORITY: 404

RANGE 19 E.

Lon: -90.515084

BB, AN, SK

BOTH

IR: Lockport SE

EARLY RESOLUTION: DATE RESOLVED: _____ DATE CLOSED: _____

- Permit Exists - P#: _____
- Not a Regulated Activity - _____ [NPR]
- No Violation Exists - _____ [NPR]

DATE VIOLATION CONFIRMED: 11 Oct. 2007

OTHER RESOLUTION: DATE RESOLVED: _____ DATE CLOSED: _____

- Admin. Close - _____
- Restoration - _____
- After-the-Fact - Application Recd _____ Forwarded _____

INITIAL CONTACT DATE: 11 Oct. 2007 BY: John Herman (OD-50)

NOTES: Conducted Field Site Inspection and discovered the work had already begun. He photographed the area - drove entire length (with ATV) photographed along the way - Issued verbal CAD to agent and crew foreman? estimated ~4000' of mechanized clearing in wetlands abutting Mathews Canal. and - 600' of excavation w/ silt deposition - primarily in keyed existing spoil banks - JJS

15 Oct. 2007 - I called Andre & Roy Cheremie to re-estimate CAD Revised 4
- both assured me no more work should occur. JJS



ENFORCEMENT CHECKLIST:

- (1) Regulatory Authority: 10 404 Both
- (2) Is the property 100% wetland? YES NO Unknown
- (3) What is the size of the wetland impact? ~ 2.5 ac.
- (4) Are the wetlands tidally influenced? YES NO
- (5) Are other waters impacted? YES NO
- (6) If yes, these waters are... 404 Only Tidal Navigable
- (7) Was hauled fill deposited on site? YES NO
- (8) Mechanized landclearing? YES NO
- (9) Ditching? YES NO
- (10) Other unauthorized activity? dredging in Sec 10 water w/o permit.

ADDITIONAL COMMENTS/NOTES:

6 Nov. 2007 - Andree called re: work in Sugar Cane field drains. - only herbaceous & small woody vegetation present. - regularly maintained - field drain. - no permit required - I re-created the verbal C&D issued by John H. Andree acknowledged that no further work would be done w/out a permit. and that none had occurred since John's site inspection. I also made Andree aware that the previous violations made it necessary to inquire if EPA was interested in taking lead in the case. 1/3/08

28 Jan. 2008 - Talked with Donna Mullins. EPA. - follow up on previous conversation. They will take lead. wanted a few more details. 1/3/08 - (Had previously sent application & photos from John Norman

Memo For Information

SUBJECT: Violation No. MVN-2006-1353-SZ-Proposed Rouse/Theriot Outfall Canal - Mrs. Charlotte Randolph, Lafourche Parish President

- 27 Feb. 2006 - A report of an unauthorized activity was received from an anonymous source. The site is in Section 19, Township 15 South, Range 17 East, southeast of Thibodaux, Lafourche Parish, Louisiana.
- The violation is the unauthorized deposition of fill material associated with mechanized landclearing and excavation of a new drainage canal through wetlands. This work is in violation of Section 301 of the Clean Water Act. Approximately 9 acres of wooded wetlands were cleared.
- 2 March 2006 - Mr. Ray Cheramie, Lafourche Parish Director of Public Works was issued verbal Cease and Desist (C&D). He advised that the parish had stopped work and would await our Field Inspection.
- 3 March 2006 - A field inspection was conducted by Mr. Furcy Zeringue of the Corps accompanied by Mr. David Poincon of the Parish Public Works Department. The entire 3880' X 100' corridor of the proposed canal has been mechanically cleared and debris mixed with soil deposited in adjacent forested areas. Approximately 600 feet of the canal has been excavated with the dredged material deposited in wetlands. Mr. Zeringue reiterated Verbal C&D and explained that the MOA with EPA had been triggered.
- 8 May 2006 – C&D issued to Parish to stop further unauthorized work and request comments as to why the work was started prior to obtaining authorization given their knowledge of the program and the cases currently at EPA.
- Fall 2006 – EPA requested the case since they are lead on levee case by the Parish and may figure in the penalty associated with that case as well. Info forwarded to EPA.
- 16 Jan 2007 Comment package received from the Parish. Did not address why the work begun without permit.
- 20 Aug 2007 EPA Complaint filed (Docket # CWA-06-2007-2725)
- 17 Aug 2007 Congressional (Vitter) status of ATF – Interim Response on 31 Aug. 2007 and final Response on 31 Aug. 2007.
- 4 Sep. 2007 phone call from Allan Richey of Sen. Landrieu's office to check status.

